

**Frazier Pike Site
37.3 Acres**

**SELECT
SITE**

**CERTIFIED BY
Entergy
Arkansas**

Certified December 2019



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General Information

Site Name: Frazier Pike Site

Site Address: West/Southwest of Frazier Pike & Birdwood Drive

Owner Contact Name: Bryan Day, Exec. Dir., Little Rock Port Authority

**Economic Development
Organization Contact
Information:** Ben France
Little Rock Regional Chamber
(501) 377-6004
bfrance@littlerockchamber.com

Site Size: 37.3 acres total (approximately 33.9 buildable acres)

Site Control Document: Site is under option by the City of Little Rock, expiring in 2029.

Aerial Site Location Map: See attachment G-1 for detail.



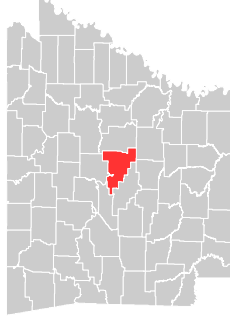


Frazier Pike Site Aerial Site Map

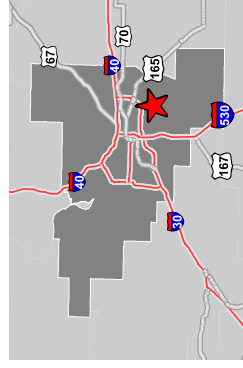
425 West Capitol Ave., Suite 2700
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Phone: 1-888-301-5861
goenergy.com/ar



PULASKI COUNTY



VICINITY



LEGEND



Property Boundary

NOTE

These drawings are provided merely to assist in economic development efforts. The Energy Companies make no representations or warranties whatsoever regarding the accuracy or completeness of any information contained herein nor the condition to any property. Users should direct inquiries about any property to the listing broker for that property.

SOURCE

Source: Aerial Imagery by Bing Maps

Date: 10/2/2019



Site Characteristics

- Acreage:** 37.3 (approximately 33.9 buildable acres)
- Dimensions:** 1086' north x 230' northeast x 1172' east x 1240' south x 1320' west
- Previous Use:** Agriculture
- Fire Rating:** 1
- Distance to Fire Station:** 1.5 miles
- Distance to Nearest Interstate and 4-lane Highway and Access Points:** 0.09 miles – Interstate 440
4.4 miles – Interstate 40
5.5 miles – Interstate 30
6.4 miles – Interstate 530
- Road Frontage, Type and Weight Capacities:** Frazier Pike Road is a county road. No weight capacity limits in the Industrial Park.
- Distance to Nearest Rail:** The Little Rock Port Authority Railroad is adjacent to the site. The Port connects to two Class I rail lines, Union Pacific and Burlington Northern.
- Distance to Nearest Commercial Airport:** 3.3 miles – Bill & Hillary Clinton National Airport
- Distance to Nearest Port Facility:** 0.5 miles – Little Rock Port Authority Docks on the McClellan Kerr Navigation System
- Distance from Retail or Central Business District:** 9.5 miles to downtown Little Rock Central Business District
- Site Type:** Industrial Park
- Site Survey:** See attachment S-1.



Cost Estimates and Timing

Cost per Acre: \$40,000/acre (purchase)
\$4,000/acre (lease)

Special Timing Considerations: None

Clearing Cost: None

Grading Cost: None

Cut/Fill Cost: Cut/fill costs are contingent on industry type and specific tenant requirements.

Utility Extension or Upgrade Costs: Electric – Service at site. Upgrades would be contingent on customer requirements.

Gas – Service at site. Upgrades would be contingent on customer requirements.

Sewer – Service at site. Upgrades would be contingent on customer requirements.

Water – There is a 12-inch water line north of the site. There would be a cost of \$70,000 to extend the water main to the northeast corner of the site.

Telecom/Fiber – Service at site. No upgrades necessary.

Rail – Rail at site. A spur would be required for specific customer needs.



Environmental

Wetlands Screening: There are minimal areas of wetlands on site that can be mitigated, built around or incorporated into the site plan for runoff retention.

See attachment E-1 for detail.

Floodplain Delineation: The site is levee protected and free of floodplain issues.

See attachment E-2 for detail.

Historical and Cultural Review: See attachment E-3 for detail.

Endangered Species: See attachment E-4 for detail.

Environmental Phase I (and Phase II if required): There were no findings related to environmental conditions at the property.

See attachment E-5 for detail.

Stormwater Retention Plan: Not applicable. All site in the Port of Little Rock are exempt from stormwater retention requirements.





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 Suite 400
 Fayetteville, AR 72703
 TEL 479.527.9100
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 www.GarverUSA.com



July 12, 2019

Mr. Bryan Day
 Executive Director
 Little Rock Port Authority
 10600 Industrial Harbor Drive
 Little Rock, AR 72206
 #501-490-1468; bday@lrportauthority.com

Re: Little Rock Port Authority (LRPA) – Entergy Property
 Little Rock, Pulaski County, Arkansas
 Desktop Wetland Delineation Report

Dear Mr. Day:

Garver completed a desktop wetland delineation for the Little Rock Port Authority (LRPA) Entergy Property project on July 12, 2019, and this report summarizes our findings. The study area examined is shown on the attached exhibits and is approximately 38 acres in size. Based on a desktop review of soil data, current and historic aerial imagery, topographic maps, and National Wetlands Inventory (NWI) data, four areas totaling 3.91 acres were identified as being potential wetlands. Additionally, data from the NWI, suggest there could be approximately 1,460 linear feet of stream (other waters) along the south property boundary. According to Natural Resources Conservation Service (NRCS) data, dominant non-hydric soils may exist that have minor hydric components (5-10%) in low areas (i.e., depressions).

These features are possibly jurisdictional due to their apparent surface water connection to known off-site waters of the U.S. At this time, these findings reflect our professional opinion of wetland and other water features identified on the subject site. This review is preliminary in nature and does limited in scope to a desktop review, as such, avoidance is recommended until the US Army Corps of Engineers (USACE) can render a jurisdictional determination. If avoidance of these features is not practical and impacts are anticipated, further site investigation and possible USACE permitting should be pursued. Refer to Table 1 for a listing of the potentially jurisdictional waters.

Table 1: Potentially Jurisdictional Features

Potentially Jurisdictional Feature	Acreage / Linear Feet Within Study Area
Wetland 1	1.65 acres
Wetland 2	0.15 acre
Wetland 3	2.0 acres
Wetland 4	0.11 acre
Other Water 1	1,460 LF

Mr. Day
July 12, 2019
Page 2 of 2

Thank you for contacting us. Please call or email me if you have any questions.

Sincerely,

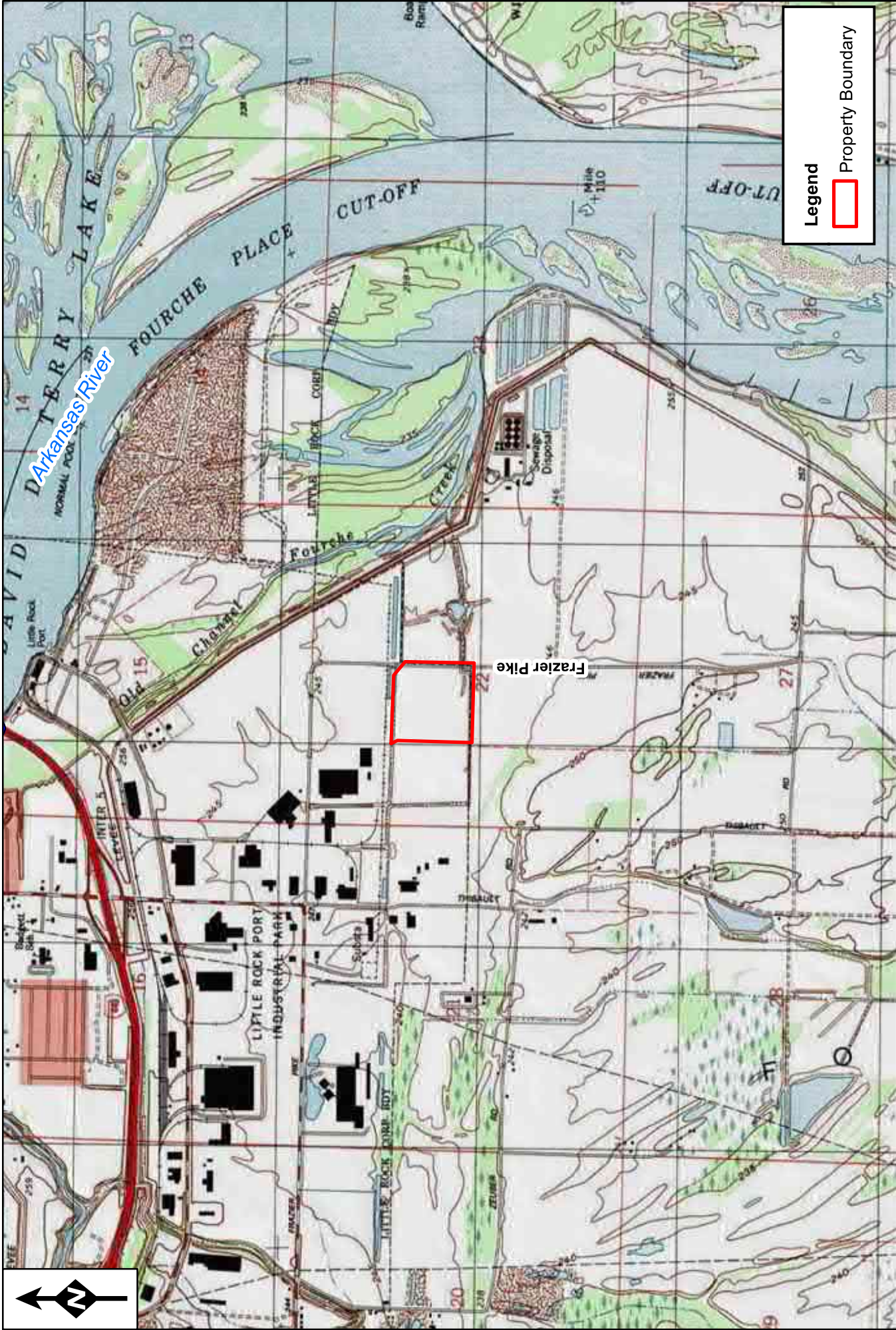
GARVER

A handwritten signature in blue ink that reads "Ryan Mountain". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Ryan Mountain, PWS
Senior Environmental Scientist

cc: Charles Cullen, PE - Garver

Attachments: Figure 1 – Site Location Map
Figure 2 – Desktop Wetland Delineation Exhibit



Site Location Map
 Little Rock Port Authority (LRPA) - Entergy Property
 Little Rock, Pulaski County, Arkansas
 ESRI GIS Information

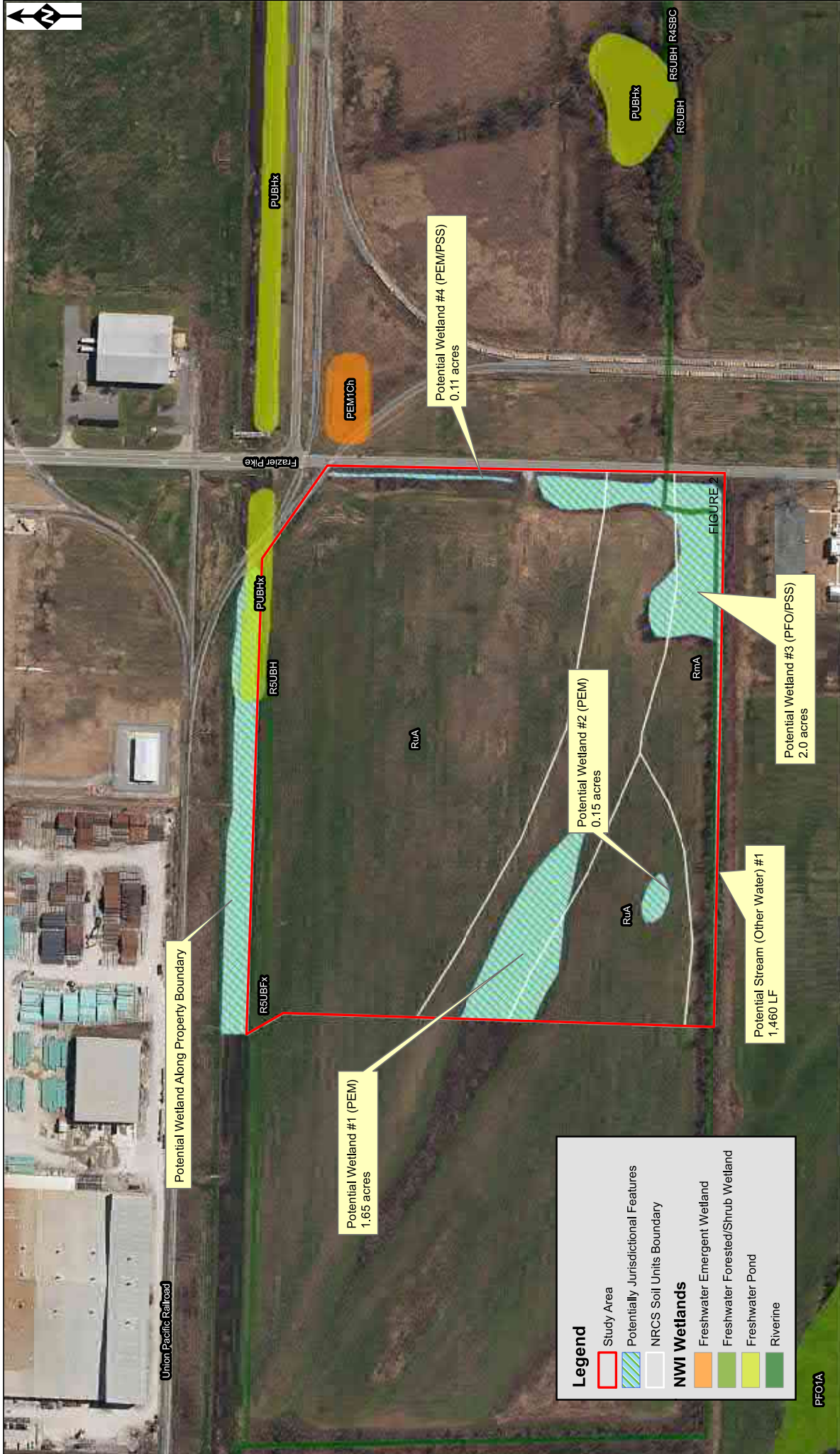
Lat: 34.701320°
 Long -92.178968°
 S22, T1N, R11W

Legend
 Property Boundary

0 0.25 0.5
 Miles

Figure 1





Union Pacific Railroad

Potential Wetland Along Property Boundary

Potential Wetland #1 (PEM)
1.65 acres

Potential Wetland #4 (PEM/PSS)
0.11 acres

Potential Wetland #2 (PEM)
0.15 acres

Potential Stream (Other Water) #1
1,460 LF

Potential Wetland #3 (PFO/PSS)
2.0 acres

Legend

- Study Area
- Potentially Jurisdictional Features
- NRCS Soil Units Boundary

NWI Wetlands

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine

Desktop Wetland Delineation Map
Little Rock Port Authority (LRPA) - Energy Property
Little Rock, Pulaski County, Arkansas

Lat: 34.701320°
Long: -92.178968°
SZZ, TIN, R11W

FIGURE 2



PFOIA

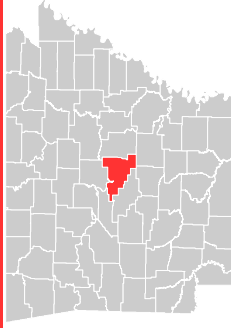


Frazier Pike Site

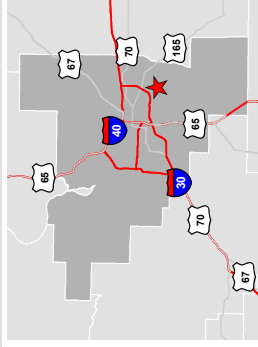
FEMA Flood Hazard

425 West Capitol Ave., Suite 2700
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Phone: 1-888-301-5861
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PULASKI COUNTY



VICINITY



LEGEND

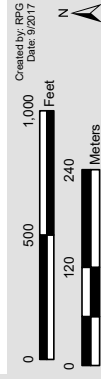
- Property Boundary
- Flood Zone, Zone Subtype**
- AE
- X-AREA OF MINIMAL FLOOD HAZARD
- X-AREA WITH REDUCED FLOOD RISK DUE TO LEVEE
- Base Flood Elevation

NOTE

These drawings are provided merely to assist in economic development efforts. The Energy Companies make no representations or warranties whatsoever regarding the accuracy or completeness of any information contained herein nor the condition or suitability of any properties. Users should direct inquiries about any property to the listing broker for that property.

SOURCE

Source: Federal Emergency Management Agency, 10/19/2016



Frazier Pike Site is located in Zone X, protected by levee. Zone X, protected by levee, is the area with reduced flood risk due to levee. The Site is shown as being protected from the 1-percent-annual-chance or greater flood hazard by a levee system.





THE DEPARTMENT OF ARKANSAS
HERITAGE

Asa Hutchinson
Governor

Stacy Hurst
Director

June 21, 2019

Mr. Eddie Mraz
Director, Business Retention and Expansion
Little Rock Regional Chamber of Commerce
1 Chamber Plaza
Little Rock, AR 72201

RE: Pulaski County — Port of Little Rock
Inquiry Regarding Previous Investigations - 37.4-Acre Entergy Site
Entergy Certified Sites Program
AHPP Tracking Number: 103793.01

Arkansas Arts Council

.

Arkansas Historic
Preservation Program

.

Arkansas Natural
Heritage Commission

.

Arkansas State Archives

.

Delta Cultural Center

.

Historic Arkansas Museum

.

Mosaic Templars
Cultural Center

.

Old State House Museum

Dear Mr. Mraz:

The staff of the Arkansas Historic Preservation Program (AHPP) reviewed the records for the 37.4-acre Entergy Site in Section 22, Township 1 North, Range 11 West in Pulaski County, Arkansas. Per your inquiry, the Little Rock Regional Chamber is seeking information regarding previous cultural resources investigations for these properties as required by the Entergy Certified Sites Program.

We searched the Automated Management of Archeological Site Data in Arkansas (AMASDA) database for a record of previous investigations in the specified area. There is no record of a previous cultural resources investigation of the referenced tract.

Based on our research, the AHPP recommends a cultural resources survey of the tract prior to the execution of a federal undertaking. We also recommend the survey conform to the *Arkansas State Plan*, Appendix B: Guidelines for Archeological Fieldwork and Report Writing in Arkansas (revised 2010). Personnel conducting the investigation should meet the Secretary of the Interior's Professional Qualifications Standards found in 36 CFR § 61.

Please refer to the AHPP Tracking Number listed above in all correspondence. If you have any questions, please call Eric Mills of my staff at 501-324-9784 or email eric.mills@arkansas.gov.

Sincerely,

Scott Kaufman
Director, AHPP



1100 North Street
Little Rock, AR 72201

(501) 324-9880
fax: (501) 324-9184

info@arkansaspreservation.org
www.arkansaspreservation.com

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Pulaski County, Arkansas



Local office

Arkansas Ecological Services Field Office

☎ (501) 513-4470

📅 (501) 513-4480

110 South Amity Suite 300
Conway, AR 72032-8975

<http://www.fws.gov/arkansas-es>

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information.
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Birds

NAME

STATUS

Piping Plover *Charadrius melodus*

Threatened

There is **final** critical habitat for this species. Your location is outside the critical habitat.

<https://ecos.fws.gov/ecp/species/6039>

Insects

NAME

STATUS

Rattlesnake-master Borer Moth *Papaipema eryngii*

Candidate

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/7863>

Flowering Plants

NAME

STATUS

Running Buffalo Clover *Trifolium stoloniferum*

Endangered

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/2529>

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/>

[conservation-measures.php](http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf)

- Nationwide conservation measures for birds

<http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

MIGRATORY BIRD INFORMATION IS NOT AVAILABLE AT THIS TIME

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) and/or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER POND

[PUBHx](#)

RIVERINE

[R5UBFx](#)

[R5UBH](#)

A full description for each wetland code can be found at the [National Wetlands Inventory website](#)

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

A graphic of a blue water splash with bubbles, positioned horizontally across the upper third of the page.

GBM^c

**Phase I Environmental Site Assessment
9010 Frazier Pike
Little Rock, AR 72206**

November 21, 2017

Phase I Environmental Site Assessment

Prepared for:

**Little Rock Port Authority
10600 Industrial Harbor Road
Little Rock, AR 72206**

Prepared by:

**GBM^c & Associates
219 Brown Lane
Bryant, AR 72022**

November 21, 2017

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1.0 SUMMARY

An Environmental Site Assessment (ESA) was conducted at a property located in Pulaski County, Arkansas on behalf of Little Rock Port Authority. The subject property includes one parcel of land totaling approximately 37.3 acres located at 9010 Frazier Pike, Little Rock, AR 72206. A survey and legal description are provided in Appendix A. The ESA was conducted by GBM^c & Associates according to ASTM E 1527-13 “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.”

The goal of the processes established by ASTM E 1527-13 is to identify recognized environmental conditions of a parcel of property. The term “recognized environmental conditions” means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into the structures on the property or into the ground, groundwater, or surface water of the property.

A visual investigation of the site was performed on November 10, 2017 by GBM^c & Associates personnel. The assessment included a review of the site's current and previous occupancy and operations, a visual reconnaissance of the site property, a visual review of adjacent property uses and conditions (observed from public right-of-ways), and a review of state and federal agency database records. The history of the site (both occupancy and operational history) as well as adjacent property was assessed by evaluating practically reviewable records, United States Geological Survey topographical maps, historical aerial photographs, historical chain of title, and interviews with knowledgeable individuals. Site location maps are included as Appendix B.

2.0 INTRODUCTION

2.1 Purpose

The purpose of this Phase I ESA is to assess environmental impacts that may have affected the site. This report includes any observed potential impacts to this site that may have altered the site's ecology, environment, functional use, and/or economic value. This assessment documents visual observations and inquiry into public records only. No testing of soil, air, or water or any other matter was used to render a technical opinion.

2.2 Detailed Scope-of-Services

The scope of services included in this Phase I ESA is intended to meet the requirements of ASTM E 1527-13. Services for this Phase I include a site visit; interviews with the current property owner(s), government officials, and other knowledgeable personnel; a records review of reasonably attainable information performed by Environmental Data Resources, Inc., and a report of the findings and opinions of GBM^c & Associates obtained throughout the Phase I ESA process.

In order to qualify for one of the Landowner Liability Protections (LLPs) certain tasks are required which are not typically performed by the environmental professional. Reasonably ascertainable recorded land title records and lien records that are filed under federal, tribal, state, or local law should be reviewed by either the user or by a contracted title company or title professional for environmental liens or activity and use limitations currently recorded against or relating to the property. An Environmental Lien Search was conducted on the subject property as part of this Phase I ESA and can be found in Appendix C.

2.3 Significant Assumptions

While this report provides an overview of potential environmental concerns, both past and present, the environmental assessment is limited by the availability of information at the time of the assessment. It is possible that unreported disposal of waste or illegal activities impairing the environmental status of the property may have occurred which could not be identified. The conclusions and recommendations regarding environmental conditions that are presented in this report are based on a scope of work authorized by Entergy. Note, however, that virtually no scope of work, no matter how exhaustive, can identify all contaminants or all conditions above and below ground.

2.4 Limitations and Exceptions

GBM^c & Associates personnel have used their best judgment and have completed the ASTM suggested inquiries when conducting this assessment. This ESA cannot wholly eliminate uncertainty regarding the potential for recognized environmental conditions concerning the subject site or adjoining properties. Not all inquiries will identify a significant environmental condition existing on the subject property. All environmental assessments are governed by circumstances and conditions that existed on the day(s) of inspection.

In the professional judgment of GBM^c & Associates, the scope of this investigation was sufficient to determine whether further investigation was warranted, given the nature and specific circumstances of the site. GBM^c & Associates performed this Phase I ESA in conformance with the care and skill currently exercised by reputable environmental consulting firms practicing under similar conditions. No other warranty or representation of any kind, expressed or implied, at common law or created by statute, is extended, made or intended by GBM^c & Associates rendering consulting services or furnishing oral and/or written reports of its findings.

GBM^c & Associates has no obligation to any third party who intends to, or will, rely on this report and specifically disclaims any such responsibility. GBM^c & Associates assumes no obligation for reporting any facts revealed by the Phase I ESA or contained in the Phase I ESA report to anyone other than the client.

This report does not constitute legal advice, nor does GBM^c & Associates purport to give legal advice. Environmental conditions and regulations are subject to constant change and reinterpretation. It should not be assumed that current conditions and/or regulatory positions will remain constant. Furthermore, because the facts stated in this report are subject to professional interpretation, differing conclusions could be reached by other professionals.

Certain information contained in this report may have been obtained from agencies or through personal interviews. GBM^c & Associates cannot warrant that such information is accurate. Except as discussed in the report, GBM^c & Associates has not verified the accuracy of such information.

Contaminants may be hidden in the subsurface materials, having been placed there due to the actions of man, or covered by foliage, water, snow, concrete, asphalt, or other materials. This contamination may not be present in predictable locations. The most that the site assessor can do is formulate a logical assessment program to reduce the client's risk of later discovering previously unknown contamination. The greater the extent of exploration on a property, the greater the probability of finding contamination, if present. Even with extensive exploration, it is not possible to say with total certainty that contaminants are not present at a particular site.

Many environmental assessments are undertaken to satisfy the "due diligence" requirement in the Federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and appropriate state requirements. The level of investigative work required to demonstrate "due diligence" has not been legislatively defined by Congress, the U.S. Environmental Protection Agency (EPA), or appropriate state bodies. Although the site assessor strives to investigate each site to discover all possible sources of contamination, GBM^c & Associates cannot warrant that the work undertaken for this report will provide a due diligence defense asserted under CERCLA, or any other federal, state, or local laws.

No warranty can be made that conditions observed were representative of areas not observed. Tests or data collected for this report were obtained only for the purposes stated in this report, and should not be used for reasons other than those intended. Any sketch(es) in the report may show approximate dimensions and are only included to assist the reader in visualizing the property. GBM^c & Associates did not survey the property.

GBM^c & Associates assumes no responsibility for legal issues affecting the property inspected, nor does GBM^c & Associates render any opinion as to the marketability of title. Unless arrangements have been previously made, GBM^c & Associates will not be required to give testimony or appear in court because of having made the ESA with reference to the property in question. Possession of this Phase I ESA Report does not carry with it the rights of publication, and any parts thereof may not be reproduced in any form without written permission of its writer, or the client who ordered the report. GBM^c & Associates assumes that there are no hidden, unapparent, or latent conditions or defects on the property, subsoil, or structures that would render it more valuable, less valuable, or hazardous. GBM^c & Associates assumes no responsibility for such conditions or for the inspection, engineering, or repair that might be required to discover or correct such factors. Information, estimates, and opinions furnished to GBM^c & Associates and contained in the report were obtained from sources considered reliable and believed to be true and correct. GBM^c & Associates however, assumes no responsibility for the accuracy of such information.

This ESA is not intended to (but indeed may) have a direct effect on the value of the property inspected. It was conducted solely for the educational benefit of the principal parties. The contents of this report, including any conclusions as to value or hazards and the identity of the inspectors shall not be disseminated to the public through advertising media, public relations media, news media, sales media, or any other public means of communication without the prior written consent and approval of GBM^c & Associates.

2.5 Special Terms and Conditions

The objective of this Phase I ESA was to evaluate the property for current and historical sources of environmental concerns, evidence of hazardous substance disposal or releases from or onto the property, evidence of environmental threats from adjacent properties, and whether further environmental testing of the property is warranted. This report meets or exceeds ASTM Standards for ESAs.

The environmental inspector (GBM^c & Associates) certifies and agrees that:

- 1) GBM^c & Associates has no present or contemplated future interest in the property inspected.

- 2) GBM^c & Associates has no personal interest in or bias with respect to the subject matter of the assessment report. This Phase I ESA Report is not based in whole or in part upon the race, color, or national origin of the prospective owners or occupants of the property inspected, or upon the race, color or national origin of the present owners or occupants of the properties in the vicinity of the property inspected.
- 3) GBM^c & Associates personnel have personally inspected the property and have made an exterior observation of neighboring properties in the report. To the best of GBM^c & Associates' knowledge and belief, all statements and information in this Phase I ESA Report are true and correct, and GBM^c & Associates has not knowingly withheld any significant information.
- 4) The legal description and address furnished is correct according to the information furnished to GBM^c & Associates.
- 5) All conclusions and opinions concerning the subject site that are set forth in the Phase I ESA Report were prepared by GBM^c & Associates personnel whose signatures appear on the Assessment Report.

2.6 User Reliance

This report may be distributed and relied upon by the Little Rock Port Authority, its successors and assigns. Use of this report by any other party shall be at such party's sole risk.

3.0 SITE DESCRIPTION

3.1 Location and Lot Description

The subject property is located in Pulaski County at 9010 Frazier Pike in Little Rock, Arkansas. The subject property consists of a parcel of land totaling approximately 37.3 acres. The subject property is undeveloped and is not currently utilized for any commercial or industrial purposes. The property consists of an agricultural field with trees along the eastern and southern property lines and a low lying, potential wetland area near the center of the property. Appendix A includes a legal description and survey of the subject property. Appendix B includes a site location aerial and topographic map.

3.2 Site and Vicinity General Characteristics

The subject property is set on the outskirts of Little Rock in a growing industrial area with agricultural fields interspersed. The topography of the area is very flat. The Arkansas River is located approximately ½ mile to the east of the subject property. Surface drainage is to the east towards the Arkansas River.

3.3 Current Use of the Property

The subject is undeveloped agricultural land. It is currently owned by Entergy Arkansas but is not used for any industrial or commercial purpose.

3.4 Descriptions of Structures, Roads, Other Improvements on the Site

Ingress/egress to the property is achieved on the east side of the property at Frazier Pike. Surface drainage ditches border the eastern, northern, and southern property boundaries. A culverted, gravel driveway is located at the eastern property entrance. No structures are located on the property. However, an out of service well is located near the center of the property.

3.5 Current Uses of the Adjoining Properties

Industrial operations are located on adjacent properties to the north of the subject property. A rail line parallels the northern property boundary then heads south on property located to the east. To the west of the subject property is undeveloped agricultural land (also owned by Entergy) then Entergy Arkansas, Inc. operations buildings further west. Undeveloped land with rail spurs storing pipe manufactured at Welspun Pipes, Inc. is found to the east, across Frazier Pike. Agricultural land and a Hindu Temple are located to the south of the subject property.

4.0 USER PROVIDED INFORMATION

4.1 Title Records

Mr. Gary Smith, of Flake Kelley Realty Company, completed the User Provided Information segment of this Phase I ESA on behalf of the Little Rock Port Authority. The Little Rock Port Authority is the user of this assessment. A legal description and survey of the subject property were provided as part of the User Provided Information. GBM^c & Associates personnel reviewed current, publicly available records related to subject property ownership.

4.2 Environmental Liens or Activity and Use Limitations

A search for environmental liens and activity and use limitations (AULs) was conducted by Environmental Data Resources (EDR) as part of this Phase I ESA. Record of the search included in Appendix C did not reveal any liens or AULs associated with the property. The user did not provide information related to environmental liens or AULs. A Historical Chain of Title included in Appendix D was also reviewed as part of this Phase I.

4.3 Specialized Knowledge

The user did not provide any specialized knowledge of the property to the environmental professionals during this Phase I ESA.

4.4 Commonly Known or Reasonably Ascertainable Information

The user did not provide commonly known or reasonably ascertainable knowledge related to environmental conditions at the site.

4.5 Valuation Reduction for Environmental Issues

The Little Rock Port Authority is conducting the Phase I ESA on the subject property. They are currently in the process of buying the parcel of land from Entergy Arkansas, Inc. There is no indication that there has been any reduction in the value of the property due to environmental concerns.

4.6 Owner, Property Manager, and Occupant Information

Entergy Arkansas, Inc. is the current owner of the subject property. The property is undeveloped and there are no property managers or occupants at the subject property.

4.7 Reason for Performing Phase I

The Little Rock Port Authority is performing this Phase I ESA as part of “all appropriate inquiry” in order to qualify as a Bona Fide Prospective Purchaser for protections from CERCLA liability.

5.0 RECORDS REVIEW

5.1 Standard Environmental Record Sources

A search of available environmental records was conducted by EDR. The reports provided in Appendix E meet the records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-13. Search distances are per ASTM standards.

1. The Subject Property Is Not on the NPL or Proposed NPL Lists

The subject property is not on the National Priorities List (NPL). The NPL is maintained by the United States EPA.

2. The Subject Property Is Not on the CERCLIS List

The subject property is not on the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) list. The CERCLIS list is maintained by the United States EPA.

3. The Subject Property Is Not on the CERCLIS NFRAP List

The subject property is not on the CERCLIS sites designated for "No Further Remedial Action Planned" (NFRAP) list. The CERCLIS-NFRAP list is maintained by the United States EPA.

4. The Subject Property is Not on the CORRACTS List

The subject property is not defined as a handler of hazardous waste associated with a Resource Conservation and Recovery Act (RCRA) Corrective Action Activity (CORRACTS). The CORRACTS List is maintained by the United States EPA.

5. The Subject Property is Not on the RCRIS List

The subject property is not listed on the Resource Conservation and Recovery Information System (RCRIS) as a Treatment, Storage or Disposal Facility.

6. The Subject Property is Not on the ERNS Records

The subject property is not on the Emergency Response Notification System (ERNS) list which contains information on reported releases of oil and hazardous substances.

7. The Subject Property is Not on the State Hazardous Waste List

The subject property is not on the State Hazardous Waste List which maintains listings of sites with known or suspected contamination. The State Hazardous Waste List is maintained by the Arkansas Department of Environmental Quality.

8. The Subject Property is Not on the State SWF/LF List

The subject property is not on the State Solid Waste Facility/Landfill Facility (SWF/LF) List. Data in the SWF/LF List may include active landfills, inactive landfills, incinerators, transfer stations, recycling locations, and other facilities where solid waste is treated or stored.

9. The Subject Property is Not on the State LUST List

The subject property is not on the Arkansas list of Leaking Underground Storage Tanks (LUST). The State LUST list is maintained by the Arkansas Department of Environmental Quality.

10. The Subject Property is Not on the State UST List

The subject property is not on the Arkansas list of Underground Storage Tanks (UST). Underground storage tanks are regulated under RCRA and must be registered with the state of Arkansas.

11. The Subject Property Is Not on the State Brownfields Site List

The subject property is not listed on the Arkansas list of Brownfields sites.

12. Nearby Properties

Welspun Pipes, Inc. which owns property to the northwest and east of the subject property is listed on the RCRA Hazardous Waste Generators database and Registered Storage Tanks (AST) database. No other nearby properties within the respective search distances found to be listed on environmental databases searched during the records review process. A complete list of the findings from the Radius Search can be found in Appendix E in the Map Findings Summary.

In addition to the environmental records search, available information was reviewed to assess the potential for vapor encroachment on the subject property. No items of concern were noted in the review.

5.2 Additional Environmental Record Sources

No Additional Environmental Record Sources outside of the required sources for ASTM E 1527-13 or those searches performed by EDR of reasonably attainable records were reviewed during this Phase I ESA.

5.3 Physical Setting Sources(s)

A current USGS 7.5 Minute Arkansas Topographic Map was obtained and reviewed to establish the physical setting of the properties. The Sweet Home (2014) Quadrangle is the current map which was utilized in this Phase I ESA. Historical topographic maps were also reviewed and can be found in Appendix F.

The general land description of the area is referred to as the Arkansas River Floodplain. Elevation of the subject property is approximately 243 feet above sea level. Drainage at the site generally flows to the east.

Soil and geotechnical information was obtained from EDR. The soil survey identifies Rilla and Keo silt loam as the predominant substrate of the subject property. These soils are well drained and have moderate infiltration rates.

5.4 Historical Use Information on the Property

Available site maps, historical aerial photographs, historical USGS 7.5 Minute Topographic maps, a Historic Chain of Title, and interviews were used as the primary

sources for the Historical Use Information. Available aerial photographs dating back to 1937 confirm that the property has never been developed other than agricultural use. Surrounding areas began developing in the 1980s.

5.5 Historical Use Information on Adjoining Properties

As summarized in Section 3.5, Current Uses of Adjoining Properties, the subject property is set in a former agricultural area which is becoming industrial. Historical aerials show that adjoining properties have been agricultural lands until seeing development in the 1980s to present.

6.0 SITE RECONNAISSANCE

6.1 Methodology and Limiting Conditions

A visual investigation of the site was performed on November 10, 2017 by GBM^o & Associates personnel. The site visit included visual reconnaissance of the subject property. The investigation was conducted on foot and included the entire property. A visual review of adjacent property uses and conditions was also conducted from public rights-of-way.

6.2 General Site Setting

The subject property is an undeveloped agricultural field with hardwood forest along the southern and southeastern property line.

6.3 Exterior Observations

Conditions at the subject property were noted during the site investigation. No findings related to potential environmental concerns were observed during the site visit. Appendix H provides photographs taken during the site visit.

6.4 Interior Observations

No buildings or other structures were present on the subject property at the time of the investigation. Therefore, interior observations did not apply to this investigation.

7.0 INTERVIEWS

7.1 Interviews with Owner

Entergy Arkansas, Inc. is the current owner of the subject property. An interview was conducted with Mr. Shawn Hill, an Entergy representative as part of this investigation. Mr. Hill indicated that Entergy does not utilize the property for any commercial or industrial purposes. He was also unaware of any past uses or conditions at the site potentially related to environmental impacts.

7.2 Interviews with Site Manager

No site manager is associated with the subject property.

7.3 Interviews with Occupants

No occupants are associated with the subject property.

7.4 Interviews with Local Government Officials

Due to the nature of the property, no local government officials were contacted during this Phase I ESA. With no commercial or industrial establishment currently found on the subject property, it was decided by the environmental professional that interviewing a local government official would not be feasible and likely would not provide information on the subject property.

7.5 Interviews with Others

No other interviews were conducted during this Phase I ESA.

8.0 FINDINGS

The findings of this ESA are based upon review of the site's current and previous occupancy, a visual reconnaissance of the site property, a visual review of adjacent property uses and conditions, a review of state and federal agency database records, historical aerial photographs and topographic maps, and the physical source settings of the property. There were no findings from this ESA related to environmental conditions at the property.

9.0 OPINION

Opinions of the findings related to the subject property located at 9010 Frazier Pike in Little Rock, AR are based on information obtained through the Phase I ESA process set forth by ASTM E 1527-13 and the experience of GBM^c & Associates personnel. The goal is to identify recognized environmental conditions based on the findings listed in Section 8.0. Further investigation, such as testing of soil, water, or air may be necessary to confirm the findings and conclusions of this ESA.

There were no findings from this ESA related to environmental conditions at the property.

10.0 CONCLUSIONS

GBM^c & Associates performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13. The subject property is located at 9010 Frazier Pike in Little Rock, Arkansas. Any exceptions to, or deletions from, this practice are described in Section 11.0 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property.

11.0 DEVIATIONS

Deviations to ASTM E 1527-13 made in this Phase I ESA are listed below. In the environmental professional's opinion it is unlikely that the following deviations affected the identification of recognized environmental conditions in connection with the subject property.

- Due to the nature of the subject property, interviews with a local government official were not conducted.

12.0 ADDITIONAL SERVICES

No additional services, outside of the detailed scope-of-services listed in Section 2.2, are part of this Phase I ESA. Any additional services requested by the user relating to the subject property will be considered another project.

13.0 REFERENCES

- ASTM E 1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process
- ASTM E 1528-06 Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process
- Environmental Data Resources, Inc.

14.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

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 CFR Part 312.


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 the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

This Phase I Environmental Site Assessment was completed by:

Name Jonathan Brown
Title Environmental Scientist

Firm GBM^c & Associates
Address 219 Brown Lane
Bryant, AR 72022

Telephone no. (501) 847-7077


Signature

11/21/17
Date

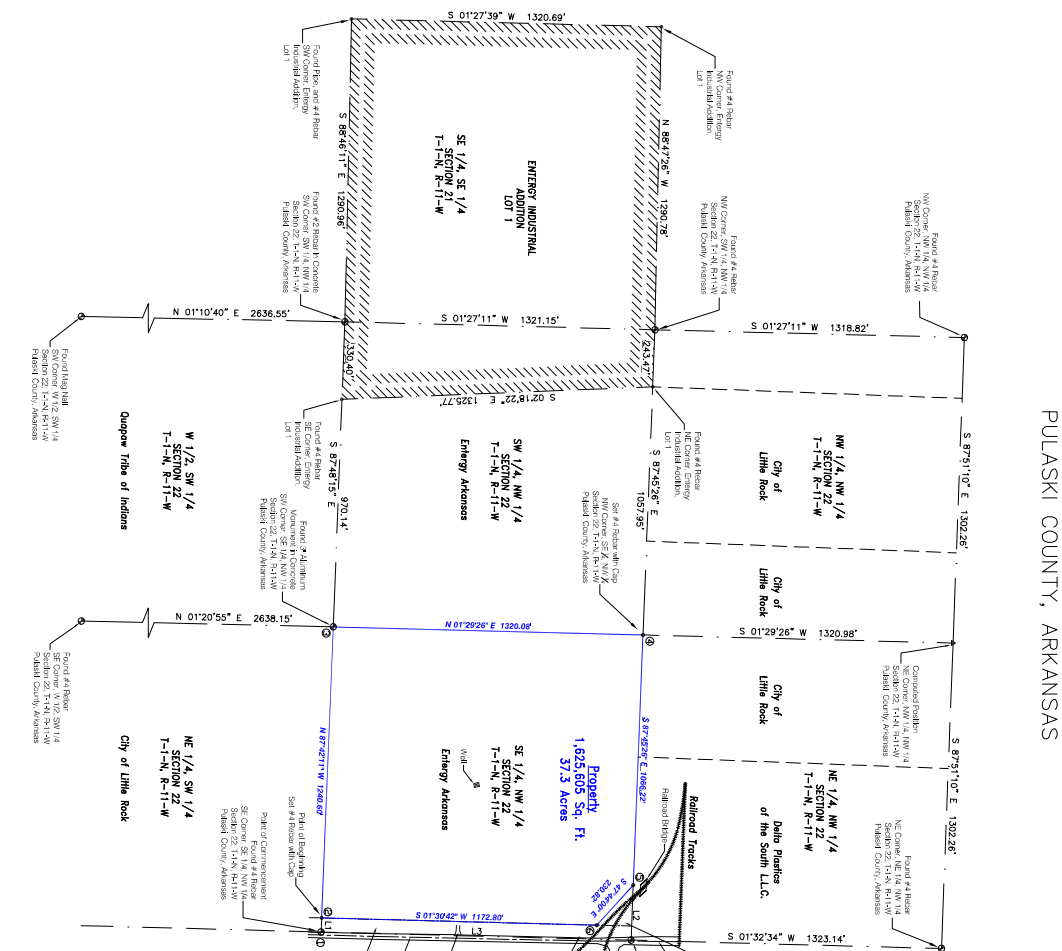
15.0 QUALIFICATION(S) OF ENVIRONMENTAL PROFESSIONAL(S)

See Appendix I for qualifications of environmental professionals involved in the preparation of this Phase I ESA.

Appendix A

Legal Description and Survey

ALTA SURVEY
OF
THE SOUTHEAST 1/4 OF THE
NORTHWEST 1/4 OF SECTION 22
TOWNSHIP 1 NORTH, RANGE 11 WEST
LOCATED IN
PULASKI COUNTY, ARKANSAS



POINT	NORTHING	EASTING
L1	13338.628	12591.287
L2	13334.030	12591.340
L3	13470.380	12570.070
L4	13468.480	12591.280
L5	13468.480	12591.280

LINE	BEARING	DISTANCE
L1	N 87°45'28" E	50.00'
L2	S 01°30'42" W	1321.30'

LEGAL DESCRIPTION	ACRES
SW 1/4, NW 1/4 SECTION 22, T-1-N, R-11-W	37.3
SE 1/4, NW 1/4 SECTION 22, T-1-N, R-11-W	37.3
NE 1/4, NW 1/4 SECTION 22, T-1-N, R-11-W	37.3
SW 1/4, SE 1/4 SECTION 22, T-1-N, R-11-W	37.3
NE 1/4, SE 1/4 SECTION 22, T-1-N, R-11-W	37.3
SW 1/4, SW 1/4 SECTION 22, T-1-N, R-11-W	37.3
NE 1/4, SW 1/4 SECTION 22, T-1-N, R-11-W	37.3
SW 1/4, NE 1/4 SECTION 22, T-1-N, R-11-W	37.3
NE 1/4, NE 1/4 SECTION 22, T-1-N, R-11-W	37.3



EXCEPTIONS AS SHOWN ON SURVEY	PLOTTABLE TITLE EXCEPTIONS
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10

ALTA/ACSM CERTIFICATION

Entergy Arkansas, Inc. (Entergy Arkansas), LTR 1281-492-0000 (Entergy Arkansas) (Entergy Arkansas) has caused this report to be prepared and the findings hereon to be based on a survey conducted by Day & Associates Land Surveying, Inc. (DALS), LTR 1281-492-0000 (DALS) on October 23, 2017. The survey was conducted in accordance with the rules and regulations of the Arkansas Board of Professional Land Surveyors and the laws of the State of Arkansas.

Dated this 23rd day of October, 2017.

SURVEYOR'S CERTIFICATION

I, Vincent Day, being duly licensed and registered as a Professional Land Surveyor in the State of Arkansas, do hereby certify that the foregoing is a true and correct copy of the original survey as conducted by me on the 23rd day of October, 2017, in and for the purpose and to the effect herein stated.

Dated this 23rd day of October, 2017.

CERTIFICATE OF AUTHORIZATION

DAY & ASSOCIATES LAND SURVEYING

NO. 2434

REGISTERED PROFESSIONAL LAND SURVEYOR

NOTES:

- The surveyor has made no investigation or independent check on the accuracy or reliability of any data other than that furnished by the client.
- The surveyor is not responsible for any errors or omissions in any data furnished by the client or for any other facts which are not shown or indicated on this plat.
- According to Pulaski County FEMA Map, panel #05119C0483C dated July 6, 2015, the flood shown hereon is located in area with reduced flood risk due to levee.

BASIS OF BEARING

BASED ON THE STATE PLANE GRID NORTH

Scale 1" = 250'

FOR USE AND BENEFIT OF:

Entergy Arkansas, Inc.
First American Title Insurance Company
Little Rock, Arkansas

PROPERTY ADDRESS:
Frazier Pike Road
Little Rock, Arkansas

DAY & ASSOCIATES LAND SURVEYING

Vincent Day, PLS 1456
27 Majestic Valley City Center
Corway, AR 72032
Office: (501) 472-3930
E-Mail: pls1456@stbcg.net

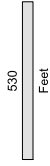
CKECKER: B.MAY

CKECKER: R.AUD

DME: 102817

Appendix B

Site Maps



Little Rock Port Authority
 Latitude: 34.701437°
 Longitude: -92.179155°
 Section: 22
 Township: 1 N
 Range: 11 W
 Quadrangle: Sweethome



PROJECT NO.	2044-17-504	REVISED	R#
DATE	11/16/2017	DRAWN BY	S1
SCALE	SHOWN		

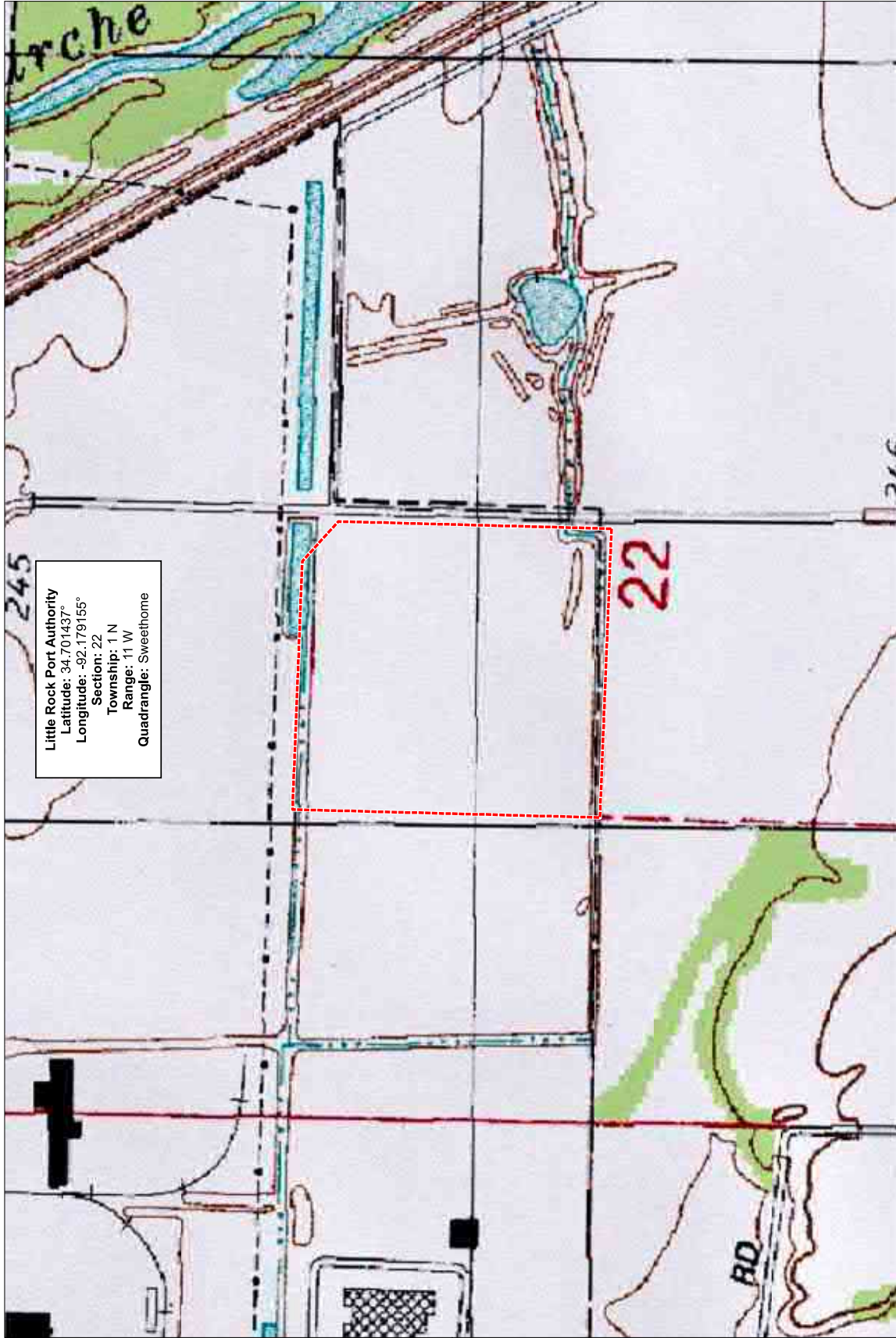
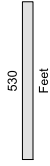
JOB NAME
PHASE I ESA
 LITTLE ROCK PORT AUTHORITY
 PULASKI COUNTY, ARKANSAS

SHEET TITLE
AERIAL SITE MAP



DESIGNED BY	RJS
CHECKED BY	RJS
DRAWN BY	JBB
SCALE BY	ALB

NO.	DATE	REVISION	BY	CHK.	APPR.



Little Rock Port Authority
 Latitude: 34.701437°
 Longitude: -92.179155°
 Section: 22
 Township: 1 N
 Range: 11 W
 Quadrangle: Sweethome

NO	DATE	REVISION	BY	CK	APPR	SHEET TITLE	JOB NAME	PHASE I ESA		R#
								LITTLE ROCK PORT AUTHORITY PULASKI COUNTY, ARKANSAS		
						TOPOGRAPHIC SITE MAP		PROJECT NO. 2044-17-504		R#
						DRAWN BY		DATE 11/16/2017		
						DESIGNED BY		SCALE		S2
						CHECKED BY		SHOWN		
						DRAWN BY				
						DESIGNED BY				
						CHECKED BY				
						DRAWN BY				



Appendix C

Environmental Lien Search

Site: Little Rock Port Alta

9010 Frazier Pike
Little Rock, AR 72206

Inquiry Number: 5103370.7S

November 17, 2017

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

A network of professional, trained researchers, following established procedures, uses client supplied 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

9010 Frazier Pike
Little Rock, AR 72206

RESEARCH SOURCE

Recorder's office
State: Arkansas
County: Pulaski

PROPERTY INFORMATION

Title is vested in: A P & L /TAX DEPT (L-ENT-12A)

Title Examiner's Note: "The records were searched back to January 1, 1980 for environmental liens, activity and use limitations and a deed of ownership. A deed of ownership was not located. A copy of the parcel data from the Pulaski County, Arkansas assessor's department is attached hereto for ownership informational purposes only."

Legal Description: See property card & map attached

Legal Current Owner: A P & L /TAX DEPT (L-ENT-12A)

Property Identifiers: 24L0230000200

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found

If found:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Docket:

Volume:

Instrument:

Comments:

Miscellaneous:

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AUL's: Found Not Found

If found:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Docket:

Volume:

Instrument:

Comments:

Miscellaneous:

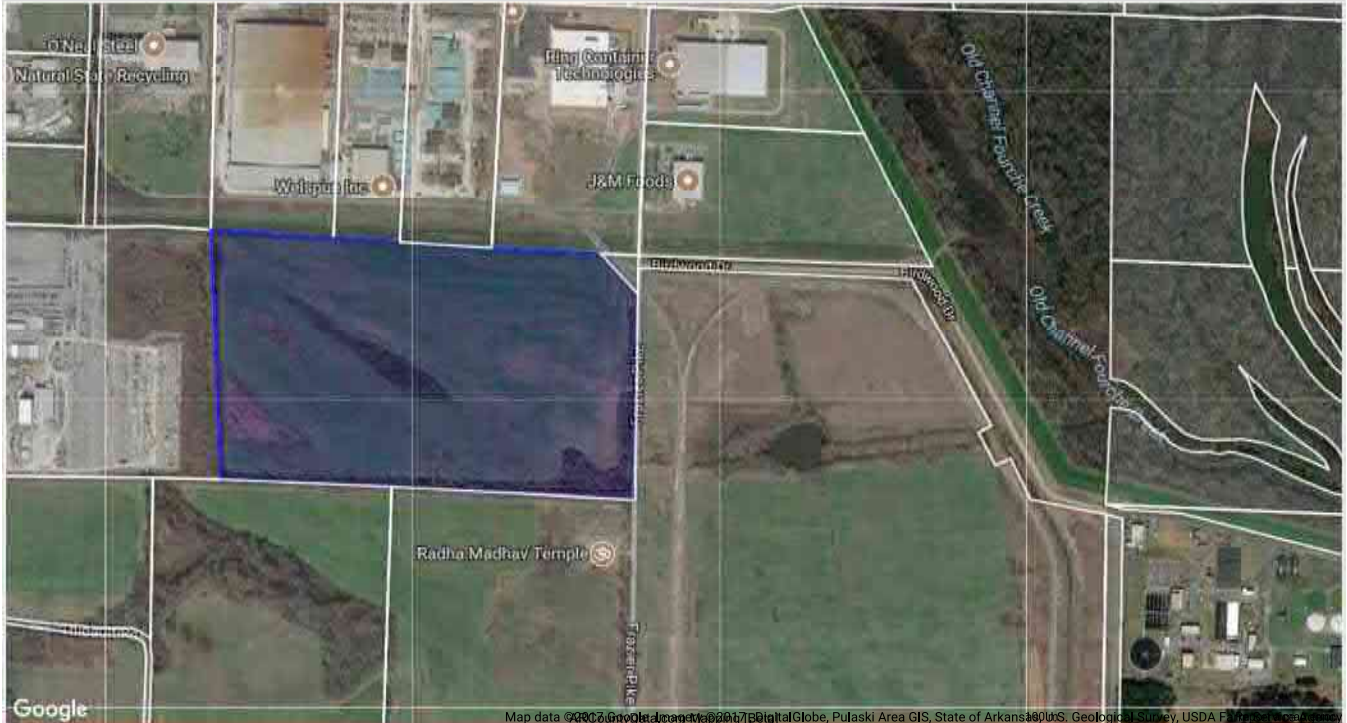
EDR Environmental Lien and AUL Search

PROPERTY CARD EXHIBIT

Parcel Detail Report

Created: 11/17/2017 9:02:05 AM

Basic Information	
Parcel Number:	24L0230000200
County Name:	Pulaski County
Ownership Information:	A P & L /TAX DEPT (L-ENT-12A) FRAZIER PIKE LITTLE ROCK, AR
Billing Information :	A P & L /TAX DEPT (L-ENT-12A) 639 LOYOLA AVE NEW ORLEANS LA 70113-
Total Acres:	8.27
Timber Acres:	0.00
Sec-Twp-Rng:	22-1N-11W
Lot/Block:	/
Subdivision:	
Legal Description:	ALL FRL S1/2 NW 22 1N 11
School District:	001 LRSD - 001
Improvement Districts:	FOURCHE ISLAND DRAINAGE
Homestead Parcel?:	No
Tax Status:	EXEMPT-PSC
Over 65?:	No
Map View	



Please Note

This map is for reference purposes only. It is not intended for use as a legal survey or document.

Land Information						
Land Type	Quantity	Front Width	Rear Width	Depth 1	Depth 2	Quarter
COMSQFT	360,241 sqft					

Sales History

I hate when this happens

No sales history available



Pulaski County, Arkansas - Commercial Property Card

24L-023.00-002.00
Parcel Key 362235

OWNERSHIP RECORD AND DESCRIPTION		APPRAISAL SUMMARY			
Owner Name	A P & L /TAX DEPT (L-ENT-12A)	Assessed Land	Improvements	Assessed Improvements	Total Appraised
Property Address	FRAZIER PIKE LITTLE ROCK AR 722060000	Land	Improvements	Full Value	Effective Value
Taxpayer Name		Year	Homestead?	Comments	Remarks
Address		Stamps	Price	Grantor/Grantee	Book/Page
Exemption Status	EXEMPT-PSC	Amount	Purpose	District	Amount
LEGAL DESCRIPTION		Date	IMPROVEMENT DISTRICTS		
Lot		Use Code	Soil Code	Qtr Sec	Front
Block		COMSQFT	M()	Rear	Depth
Subdivision		LANDSCAPING	TOPO	UTILITIES	STREET
School District	001		High	No Water	Concrete
Nbhd Code	L 141		Low	No Sewer	Asphalt
Market SPUL			Rough	No Gas	G & G
Acres	8.27		Flat	No Electric	Gravel
Timber 0			None	No Phone	Dirt
Old Parcel	R0041513				
Legal Description	22-1N-11W				
ALL FRL S1/2 NW 22 1N 11					
BUILDING PERMIT RECORD					
Date		Amount	5573	Purpose	Import from File
Use Code		Soil Code		Qtr Sec	
COMSQFT		LAND RECORD	TOPO	UTILITIES	STREET
			High	No Water	Concrete
			Low	No Sewer	Asphalt
			Rough	No Gas	G & G
			Flat	No Electric	Gravel
			None	No Phone	Dirt
COMMENTS					
2005: HS Eff Land: 0, HS Eff Imps: 0, NHS Eff Land: 100240, NHS Eff Imps: 0, HS NewDis Land: 0, HS NewDis Imp: 0, NH NewDis Land: 0, NH NewDis Imps: 0 COPIES GIVEN TO MAPPING & PAULA TO BE SOIL CODES 05/14/08 QC 2007086608 = SPLIT. LW QC 2007086608 MAIL TO OTHER LR PORT AUTH MAIL ADDRESS OF 7500 LINDSEY RD L.R. 72206. LW SID 02002 FOURCHE ISLAND DRAINAGE DIST No2 Tax Year 2006 - \$101.5 SID 02002 FOURCHE ISLAND DRAINAGE DIST No2 Tax Year 2007 - \$102 SID 02002 FOURCHE ISLAND DRAINAGE DIST No2 Tax Year 2008 - \$102 SID 02002 FOURCHE ISLAND DRAIN					
REVIEW RECORD		USE CODES			
Action	Date	By	Cost		
PRINTED	11/17/17	WEB	PSC		
2017LC	12/14/16	THB	R0041513		
REVISITED	04/21/08	rcw			
TOTALS					
				Acres	8.27
					360,241

Appendix D

Historical Chain of Title



**Site Name: Little Rock Port Alta
9010 Frazier Pike
Little Rock, AR 72206**

**Inquiry Number: 5103370.14S
November 30, 2017**

The EDR Chain of Title Report



440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Chain of Title

The EDR Chain of Title Report tracks a line of successive owners from the present back to 1940 of a particular parcel of property, linked together by recorded transactions which pass title. Available nationwide, this report provides a summary of a property's ownership history and is a valuable source for determining the prior uses of a property

A network of professional abstractors following established procedures, uses client supplied address information to locate:

- Historical Chain of Title research
- Leases and Miscellaneous

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Chain of Title

TARGET PROPERTY INFORMATION

ADDRESS

9010 Frazier Pike
Little Rock, AR 72206

Research Source

Official Public Records
County of Pulaski

EXAMINER'S NOTE: Public records of Pulaski County, State of Arkansas were searched from January 1, 1940 to , and no other deeds vesting title in the subject property were found of record during the period searched.

PROPERTY DESCRIPTION

Current Owner: A P & L /TAX DEPT (L-ENT-12A)
FRAZIER PIKE
LITTLE ROCK, AR

Legal Description: See property card attached

Property Identifiers: 24L0230000200

HISTORICAL CHAIN OF TITLE

See Exhibit "A"

LEASES AND MISCELLANEOUS

N/A

EDR Chain of Title

Chain of Title

Exhibit "A"

EDR Chain of Title

HISTORICAL CHAIN OF TITLE

Type of Deed: unknown

Title is vested in: A P & L /TAX DEPT (L-ENT-12A)

Title received from: unknown

Date Executed: n/a

Date Recorded: n/a

Book: n/a

Page: n/a

Comments: "The records were searched back to January 1, 1939 for deed of ownership. A deed of ownership was not located. A copy of the parcel data from the Pulaski County, Arkansas assessor's department is attached hereto for ownership informational purposes only."

EDR Chain of Title

Assessor's Card Exhibit

Parcel Detail Report

Created: 11/17/2017 9:02:05 AM

Basic Information	
Parcel Number:	24L0230000200
County Name:	Pulaski County
Ownership Information:	A P & L /TAX DEPT (L-ENT-12A) FRAZIER PIKE LITTLE ROCK, AR
Billing Information :	A P & L /TAX DEPT (L-ENT-12A) 639 LOYOLA AVE NEW ORLEANS LA 70113-
Total Acres:	8.27
Timber Acres:	0.00
Sec-Twp-Rng:	22-1N-11W
Lot/Block:	/
Subdivision:	
Legal Description:	ALL FRL S1/2 NW 22 1N 11
School District:	001 LRSD - 001
Improvement Districts:	FOURCHE ISLAND DRAINAGE
Homestead Parcel?:	No
Tax Status:	EXEMPT-PSC
Over 65?:	No

Map View



⚠ Please Note

This map is for reference purposes only. It is not intended for use as a legal survey or document.

Land Information

Land Type	Quantity	Front Width	Rear Width	Depth 1	Depth 2	Quarter
COMSQFT	360,241 sqft					

Sales History

I hate when this happens

No sales history available



OWNERSHIP RECORD AND DESCRIPTION						APPRAISAL SUMMARY						
Owner Name A P & L /TAX DEPT (L-ENT-12A)						Land	Improvements	Total Appraised				
Property Address FRAZIER PIKE						Assessed Land	Assessed Improvements	Total Assessed				
LITTLE ROCK AR 722060000						Year	Land	Improvements	Full Value	Effective Value	Homestead?	Comments
Taxpayer Name						Stamps	Price	Grantor/Grantee	Book/Page	Type	Remarks	
Address						Subdivision						
Exemption Status EXEMPT-PSC						School District 001	Nbhd Code L 141	Market SPUL				
LEGAL DESCRIPTION						Acres 8.27	Timber 0					
Lot						Old Parcel R0041513						
Block						Legal Description 22-1N-11W						
Subdivision						ALL FRL S1/2 NW 22 1N 11						

BUILDING PERMIT RECORD						IMPROVEMENT DISTRICTS										
Date	Amount	Purpose	District	Amount	Comment	Use Code	Soil Code	Qtr Sec	Front	Rear	Depth	Depth %	Size	Rate	Adjustment	Value
			02002	5573	Import from File	COMSQFT	M()						360241 Sf	1.00	1.00	360,241
LAND RECORD																
2005: HS Eff Land: 0, HS Eff Imps: 0, NHS Eff Land: 100240, NHS Eff Imps: 0, HS NewDis Land: 0, HS NewDis Imp: 0, NH NewDis Land: 0, NH NewDis Imps: 0 COPIES GIVEN TO MAPPING & PAULA TO BE SOIL CODES 05/14/08 QC 2007086608 = SPLIT. LW QC 2007086608 MAIL TO OTHER LR PORT AUTH MAIL ADDRESS OF 7500 LINDSEY RD L.R. 72206. LW SID 02002 FOURCHE ISLAND DRAINAGE DIST No2 Tax Year 2006 - \$101.5 SID 02002 FOURCHE ISLAND DRAINAGE DIST No2 Tax Year 2007 - \$102 SID 02002 FOURCHE ISLAND DRAINAGE DIST No2 Tax Year 2008 - \$102 SID 02002 FOURCHE ISLAND DRAIN																

REVIEW RECORD			USE CODES		
Action	Date	By	Cost		
PRINTED	11/17/17	WEB	PSC		
2017LC	12/14/16	THB	R0041513		
REVISITED	04/21/08	rcw			

TOTALS				
			Acres	8.27
				360,241

Appendix E

Records Review Documentation (EDR Radius Report)

Little Rock Port Alta
9010 Frazier Pike
Little Rock, AR 72206

Inquiry Number: 5103370.2s
November 09, 2017

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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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) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

9010 FRAZIER PIKE
LITTLE ROCK, AR 72206

COORDINATES

Latitude (North):	34.7015660 - 34° 42' 5.63"
Longitude (West):	92.1789930 - 92° 10' 44.37"
Universal Transverse Mercator:	Zone 15
UTM X (Meters):	575191.9
UTM Y (Meters):	3840058.8
Elevation:	243 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	6065273 SWEET HOME, AR
Version Date:	2014

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150713
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
9010 FRAZIER PIKE
LITTLE ROCK, AR 72206

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	WELSPUN PIPES, INC	9301 FRAZIER PIKE	RCRA NonGen / NLR	Lower	98, 0.019, ESE
A2	WELSPUN TUBULAR LLC	9301 FRAZIER PIKE	AST	Lower	98, 0.019, ESE
B3	WELSPUN TUBULAR, LLC	8200 FRAZIER PIKE RD	RCRA NonGen / NLR, FINDS, ECHO	Lower	958, 0.181, NW
B4	WELSPUN PIPES	8200 FRAZIER PIKE	AST	Lower	958, 0.181, NW

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

SHWS..... Hazardous Substance Remedial Action Trust Fund Priority List

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

SWF/LF..... Solid Waste Facility Permit Database

SWID..... Solid Waste Illegal Dumps Database

State and tribal leaking storage tank lists

LTANKS..... Leaking Storage Tank Location 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 Data

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

State and tribal institutional control / engineering control registries

ENG CONTROLS..... Engineering Controls Sites Listing

INST CONTROL..... Institutional Control/Land Use Restriction Sites

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

VCP..... Voluntary Cleanup Program Sites

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Projects

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY..... Recycling Directory

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

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

ODI..... Open Dump Inventory

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

Local Lists of Hazardous waste / Contaminated Sites

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

EXECUTIVE SUMMARY

CDL..... Methamphetamine Contaminated Properties Listing
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..... Emergency Response Incidents
SPILLS 90..... SPILLS 90 data from FirstSearch
SPILLS 80..... SPILLS 80 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
FINDS..... Facility Index System/Facility Registry System
UXO..... Unexploded Ordnance Sites
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
ECHO..... Enforcement & Compliance History Information
FUELS PROGRAM..... EPA Fuels Program Registered Listing
AIRS..... Permitted Facility Emission & Stack Data
ASBESTOS..... Asbestos Notification of Intent Database

EXECUTIVE SUMMARY

COAL ASH.....	Coal Ash Disposal Site Listing
ENF.....	Consent Administrative Order, Notice of Violation Information Database
Financial Assurance.....	Financial Assurance Information Listing
PERMITS.....	Permit Data System
AR Sludge.....	Poultry Sludge Permit Sites
TIER 2.....	Tier 2 Information Listing
UIC.....	Underground Injection Wells Database Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
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 registered storage tank lists

AST: Aboveground Tank Database

A review of the AST list, as provided by EDR, and dated 09/18/2017 has revealed that there are 2 AST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WELSPUN TUBULAR LLC Facility Id: 60002106 Facility Id: 60002106	9301 FRAZIER PIKE	ESE 0 - 1/8 (0.019 mi.)	A2	9

EXECUTIVE SUMMARY

AFIN: 6004184
WELSPUN PIPES 8200 FRAZIER PIKE NW 1/8 - 1/4 (0.181 mi.) B4 20
Facility Id: 60002133
Facility Id: 60002133
AFIN: 6004385

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.

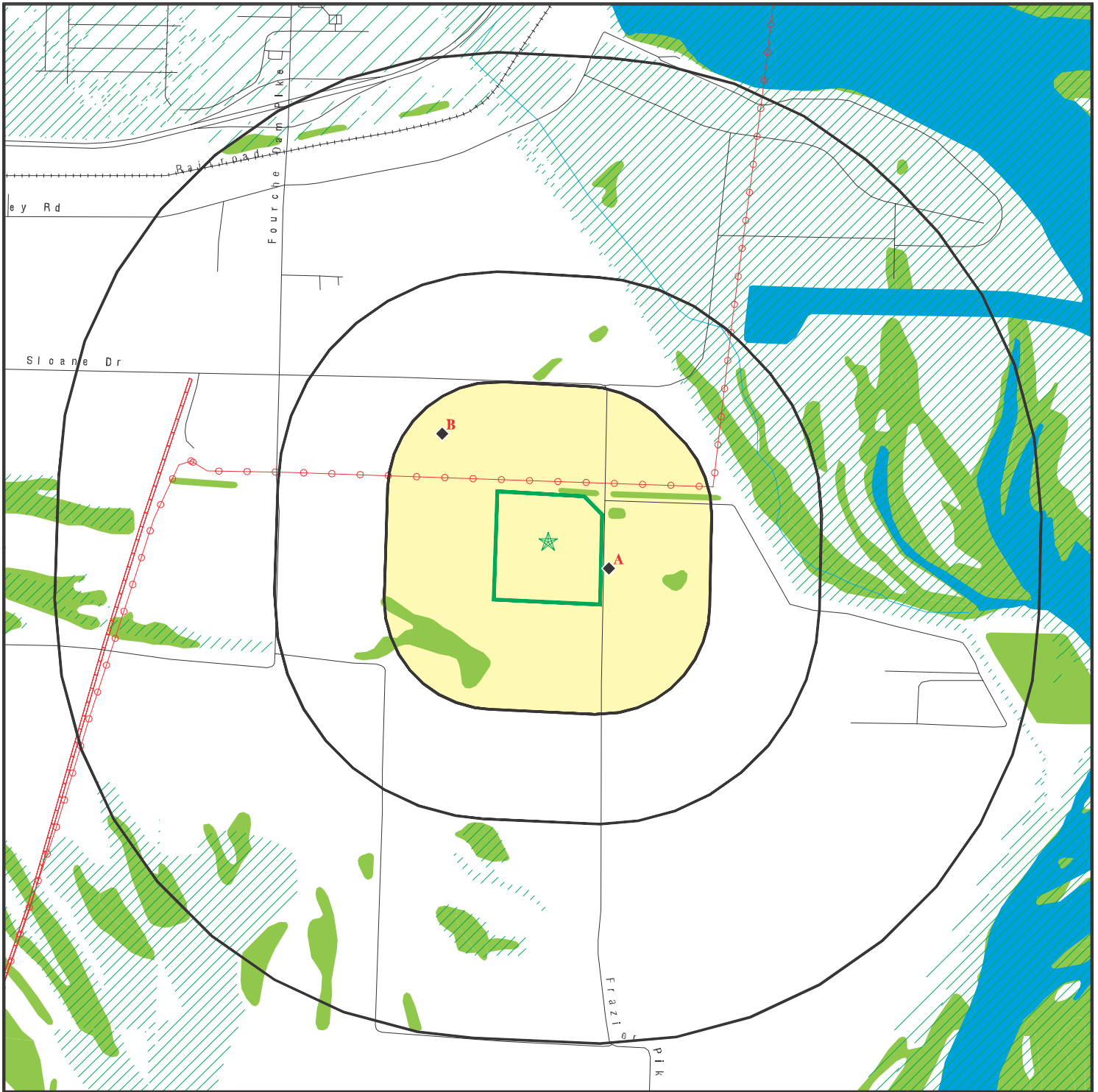
A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/13/2017 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WELSPUN PIPES, INC	9301 FRAZIER PIKE	ESE 0 - 1/8 (0.019 mi.)	A1	8
WELSPUN TUBULAR, LLC	8200 FRAZIER PIKE RD	NW 1/8 - 1/4 (0.181 mi.)	B3	11

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 5103370.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Upgradient Area

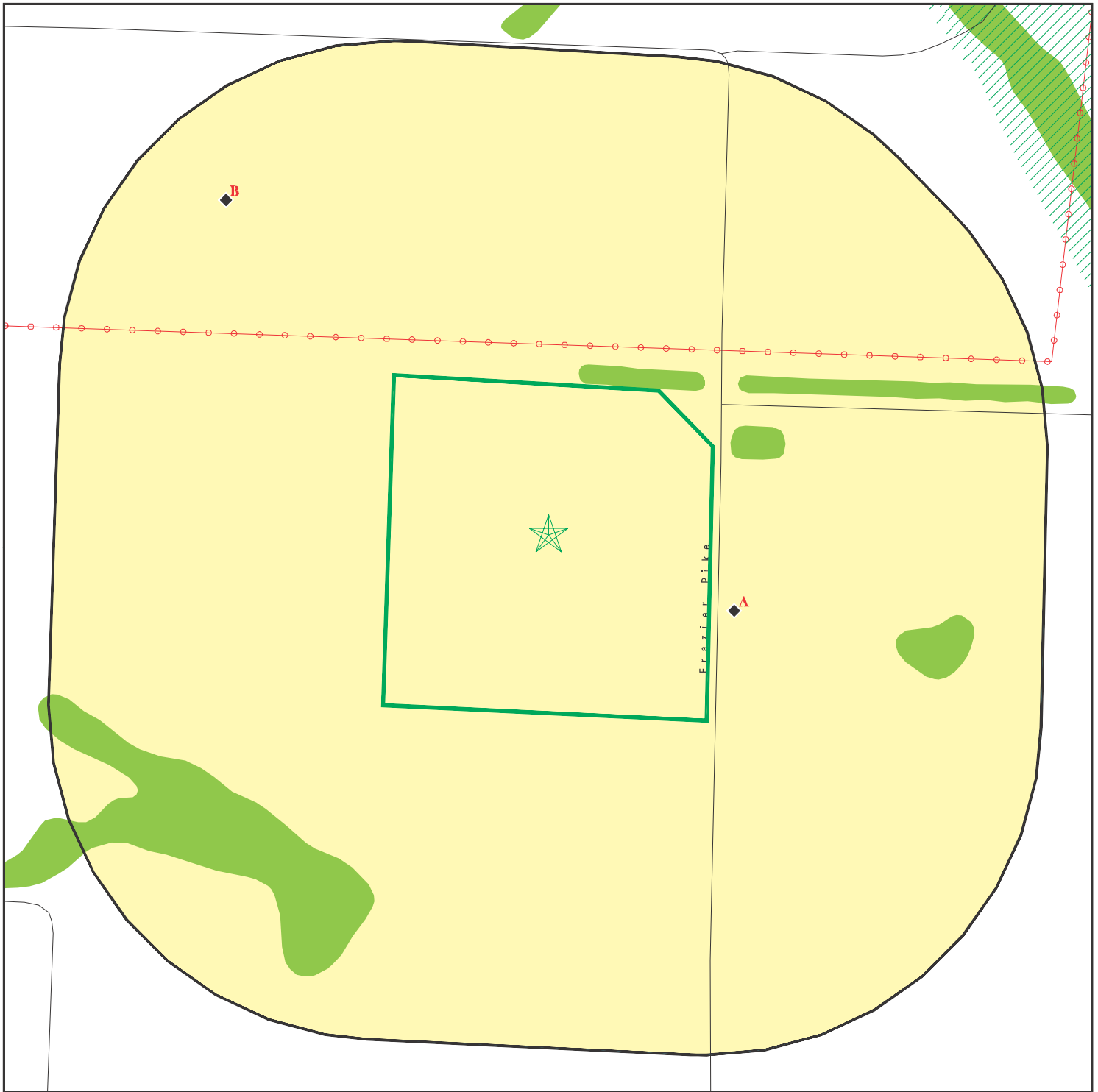









This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

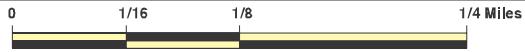
SITE NAME: Little Rock Port Alta
 ADDRESS: 9010 Frazier Pike
 Little Rock AR 72206
 LAT/LONG: 34.701566 / 92.178993

CLIENT: GB Mc and Associates
 CONTACT: Ryan Stoner
 INQUIRY #: 5103370.2s
 DATE: November 09, 2017 5:08 pm

DETAIL MAP - 5103370.2S



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



-  Indian Reservations BIA
-  Power transmission lines
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  State Wetlands



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

SITE NAME: Little Rock Port Alta
 ADDRESS: 9010 Frazier Pike
 Little Rock AR 72206
 LAT/LONG: 34.701566 / 92.178993

CLIENT: GB Mc and Associates
 CONTACT: Ryan Stoner
 INQUIRY #: 5103370.2s
 DATE: November 09, 2017 5:09 pm

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								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
SHWS	1.000		0	0	0	0	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
SWID	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LTANKS	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		1	1	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	1	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0

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
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
PERMITS	TP		NR	NR	NR	NR	NR	0
AR Sludge	0.500		0	0	0	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	TP		NR	NR	NR	NR	NR	0
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MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	2	2	0	0	0	4

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1
ESE
< 1/8
0.019 mi.
98 ft.

WELSPUN PIPES, INC
9301 FRAZIER PIKE
LITTLE ROCK, AR 72206

RCRA NonGen / NLR 1011843742
ARR000017996

Site 1 of 2 in cluster A

Relative:
Lower

RCRA NonGen / NLR:

Actual:
241 ft.

Date form received by agency: 07/22/2009
Facility name: WELSPUN PIPES, INC
Facility address: 9301 FRAZIER PIKE
LITTLE ROCK, AR 72206
EPA ID: ARR000017996
Mailing address: FRAZIER PIKE
LITTLE ROCK, AR 72206
Contact: MARTIN H CAIN
Contact address: FRAZIER PIKE
LITTLE ROCK, AR 72206
Contact country: US
Contact telephone: 501-301-8800
Contact email: MARTIN_CAIN@WELSPUN.COM
EPA Region: 06
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: WELSPUN
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/01/2008
Owner/Op end date: Not reported

Owner/operator name: WELSPUN TUBULAR
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/01/2008
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELSPUN PIPES, INC (Continued)

1011843742

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: 08/25/2008
Site name: WELSPUN PIPES, INC.
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 07/08/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

A2
ESE
< 1/8
0.019 mi.
98 ft.

WELSPUN TUBULAR LLC
9301 FRAZIER PIKE
LITTLE ROCK, AR 72206

Site 2 of 2 in cluster A

AST A100319525
N/A

Relative:
Lower

AST:
Facility Id: 60002106
AFIN: 6004184
Date Owner Notice Rec: 05/08/2008
Active Site: Yes
Underground-Aboveground: Not reported
Underground Temp Out: Not reported
Aboveground Temp Out: Not reported
Underground Perm Out: Not reported

Actual:
241 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELSPUN TUBULAR LLC (Continued)

A100319525

Aboveground Perm Out: Not reported
Aboveground in Use: Yes
Underground in Use: Not reported
Aboveground: Yes
Below Ground: Not reported
Federal Flag: Not reported
No Bill: Not reported
Date Signed: 05/06/2008
Amendments Exist for Facility: Not reported
Date Reg Cert. Issued: 07/11/2017
Leaking UST Incident: Not reported
Leak Id Number: Not reported
With Inspection Pix: Not reported
With Inspection Reports: Not reported
Contact Title: Not reported
Contact Name: MARTIN CAIN
Contact Phone: 5013018800
Certified Title: SALES REP
Certified Name: DARREL FISK
Entry Clerk: mcnair
Entry Date: 05/12/2008
Update Clerk: MCNAIR
Update Date: 02/13/2013
Latitude: 34.688897
Longitude: -92.169207

Owner:
Owner ID: 010795
Owner Name: MID-SOUTH SALES INC
Owner Address: 3701 STAGECOACH RD
Owner City,St,Zip: JEFFERSON, AR 72079
Owner County: JEFFERSON
Owner Phone: 5013975055
Owner Type: Private Industry

AST/UST Eligible:
Facility Id: 60002106
Date Eligible: 7/7/2008
Transaction Code: CIOA
Entry Clerk: fields
Entry Date: 7/7/2008 10:36:53 AM
Update Clerk: Not reported
Update Date: Not reported
Eligibility Description: Certificate issued, original, AST

Tank Info:
Facility ID: 60002106
Tank ID: 1
Tank Status: In Use
Tank Status Date: Not reported
Capacity: 2000
Install Date: 04/22/2008
Last Used Date: Not reported
Removal Status: Not reported
Gallons Removed: Not reported
Number of Compartments: 1
Tank Material: Steel

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELSPUN TUBULAR LLC (Continued)

A100319525

Tank Material Other: Not reported
Currently or Last Substance Stored: Diesel
Other Substance Description: Not reported
Piping Material: Not reported
Internal Corrosion Protection: None
External Corrosion Prot: Painted
GIS Location ID: Not reported
REC Create By: mcnair
REC Create Date: 05/12/2008
REC Modified By: schenk
REC Modified Date: 05/15/2008
Tank Comments: Not reported
Decode for Tstatus: In Use

**B3
NW
1/8-1/4
0.181 mi.
958 ft.**

**WELSPUN TUBULAR, LLC -ERW FACILITY
8200 FRAZIER PIKE RD
LITTLE ROCK, AR 72206**

**RCRA NonGen / NLR
FINDS
ECHO**

**1000232467
ARD122185192**

Site 1 of 2 in cluster B

**Relative:
Lower**

RCRA NonGen / NLR:

Date form received by agency: 02/05/2008

Facility name: JOHN MANEELY CO-WHEATLAND TUBE DIV-LR PL

Facility address: 8200 FRAZIER PIKE
LITTLE ROCK, AR 72206

EPA ID: ARD122185192

Mailing address: P.O. BOX 608
CASTLE, PA 16105

Contact: ARTHUR E HALL

Contact address: Not reported
Not reported

Contact country: Not reported

Contact telephone: 724-342-6851

Telephone ext.: 1124

Contact email: ART.HALL@WHEATLAND.COM

EPA Region: 06

Land type: Private

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: JOHN MANEELY CO-WHEATLAND TUBE DIV

Owner/operator address: ENTERPRISE PKWY SUITE 150
BEACHWOOD, OH 44122

Owner/operator country: US

Owner/operator telephone: Not reported

Owner/operator email: Not reported

Owner/operator fax: Not reported

Owner/operator extension: Not reported

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 07/01/1992

Owner/Op end date: Not reported

Owner/operator name: JOHN MANEELY CO-WHEATLAND TUBE DIV

Owner/operator address: Not reported
Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELSPUN TUBULAR, LLC -ERW FACILITY (Continued)

1000232467

Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/01/1992
Owner/Op end date: Not reported

Handler Activities Summary:

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

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

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

. Waste code: LABP
. Waste name: LAB PACK

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELSPUN TUBULAR, LLC -ERW FACILITY (Continued)

1000232467

. Waste code: P106
. Waste name: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

Historical Generators:

Date form received by agency: 11/19/2007
Site name: JOHN MANEELY CO - WHEATLAND DIV
Classification: Not a generator, verified

Date form received by agency: 10/29/2007
Site name: WHEATLAND TUBE COMPANY
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

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

Date form received by agency: 02/14/2006
Site name: WHEATLAND TUBE COMPANY
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELSPUN TUBULAR, LLC -ERW FACILITY (Continued)

1000232467

MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 02/09/2005

Site name: WHEATLAND TUB COMPANY LR DIV

Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

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

Date form received by agency: 02/06/2004

Site name: WHEATLAND TUBE CO - LITTLE ROCK DIV

Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

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

Date form received by agency: 02/06/2004

Site name: WHEATLAND TUB COMPANY LR DIV

Classification: Large Quantity Generator

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELSPUN TUBULAR, LLC -ERW FACILITY (Continued)

1000232467

- . Waste code: D001
- . Waste name: IGNITABLE WASTE

- . Waste code: D002
- . Waste name: CORROSIVE WASTE

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

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

Date form received by agency: 02/12/2003
Site name: WHEATLAND TUBE CO - LITTLE ROCK DIV
Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE WASTE

- . Waste code: D002
- . Waste name: CORROSIVE WASTE

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

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

Date form received by agency: 02/22/2002
Site name: WHEATLAND TUBE CO - OMEGA DIV
Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE WASTE

- . Waste code: D002
- . Waste name: CORROSIVE WASTE

- . Waste code: D007

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELSPUN TUBULAR, LLC -ERW FACILITY (Continued)

1000232467

. Waste name: CHROMIUM

. Waste code: F003

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

Date form received by agency: 02/19/2002
Site name: WHEATLAND TUBE COMPANY
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: F003

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

Date form received by agency: 11/07/2000
Site name: WHEATLAND TUBE COMPANY
Classification: Large Quantity Generator

Date form received by agency: 06/24/1998
Site name: WHEATLAND TUBE COMPANY LITTLE ROCK DIV
Classification: Large Quantity Generator

Date form received by agency: 02/22/1996
Site name: WHEATLAND TUBE CO OMEGA DIV
Classification: Large Quantity Generator

Date form received by agency: 02/22/1996
Site name: WHEATLAND TUBE CO - OMEGA DIV
Classification: Large Quantity Generator

Date form received by agency: 02/25/1994
Site name: WHEATLAND TUBE COMPANY OMEGA DIVISION

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELSPUN TUBULAR, LLC -ERW FACILITY (Continued)

1000232467

Classification: Large Quantity Generator

Date form received by agency: 02/28/1992

Site name: OMEGA TUBE & CONDUIT

Classification: Large Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: SR - REG 23 SEC 265.173(a)
Area of violation: TSD - Container Use and Management
Date violation determined: 08/13/1997
Date achieved compliance: 09/17/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/13/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - REG 23 SEC 265.16
Area of violation: Generators - General
Date violation determined: 08/13/1997
Date achieved compliance: 11/14/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/13/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - REG 23 SEC 268.7(a)(7)
Area of violation: LDR - General
Date violation determined: 08/13/1997
Date achieved compliance: 09/17/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/13/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - REG 23 SEC 262.34(c)(1)(ii)
Area of violation: Generators - General
Date violation determined: 08/13/1997
Date achieved compliance: 09/17/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/13/1997
Enf. disposition status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELSPUN TUBULAR, LLC -ERW FACILITY (Continued)

1000232467

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - REG 23 SEC 262.21(d)
Area of violation: Generators - Manifest
Date violation determined: 08/13/1997
Date achieved compliance: 09/17/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/13/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - REG 23 SEC 262.20(a)
Area of violation: Generators - Manifest
Date violation determined: 08/13/1997
Date achieved compliance: 09/17/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/13/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - REG 23 SEC 265.51
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date violation determined: 08/13/1997
Date achieved compliance: 09/17/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/13/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - REG 23 SEC 262.34(c)(2)
Area of violation: Generators - General
Date violation determined: 08/13/1997
Date achieved compliance: 09/17/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/13/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELSPUN TUBULAR, LLC -ERW FACILITY (Continued)

1000232467

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 07/31/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/22/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 09/17/1997
Evaluation lead agency: State

Evaluation date: 07/22/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/14/1997
Evaluation lead agency: State

Evaluation date: 07/22/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 09/17/1997
Evaluation lead agency: State

Evaluation date: 07/22/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/17/1997
Evaluation lead agency: State

Evaluation date: 07/22/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date achieved compliance: 09/17/1997
Evaluation lead agency: State

Evaluation date: 07/22/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Container Use and Management
Date achieved compliance: 09/17/1997
Evaluation lead agency: State

FINDS:

Registry ID: 110055092484

Environmental Interest/Information System

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELSPUN TUBULAR, LLC -ERW FACILITY (Continued)

1000232467

States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

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

ECHO:

Envid: 1000232467
Registry ID: 110055092484
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110055092484>

**B4
NW
1/8-1/4
0.181 mi.
958 ft.**

**WELSPUN PIPES
8200 FRAZIER PIKE
LITTLE ROCK, AR 72206
Site 2 of 2 in cluster B**

**AST A100350402
N/A**

**Relative:
Lower**

AST:

**Actual:
242 ft.**

Facility Id: 60002133
AFIN: 6004385
Date Owner Notice Rec: 10/28/2011
Active Site: Not reported
Underground-Aboveground: Not reported
Underground Temp Out: Not reported
Aboveground Temp Out: Not reported
Underground Perm Out: Not reported
Aboveground Perm Out: Yes
Aboveground in Use: Not reported
Underground in Use: Not reported
Aboveground: Yes
Below Ground: Not reported
Federal Flag: Not reported
No Bill: Not reported
Date Signed: 10/17/2011
Amendments Exist for Facility: Yes
Date Reg Cert. Issued: 07/20/2011
Leaking UST Incident: Not reported
Leak Id Number: Not reported
With Inspection Pix: Not reported
With Inspection Reports: Not reported
Contact Title: HSC DIR OF WELSPUN
Contact Name: MARTIN CAIN
Contact Phone: 5013018858
Certified Title: SALES REP
Certified Name: DARREL FISK
Entry Clerk: MCNAIR
Entry Date: 05/10/2010
Update Clerk: MCNAIR
Update Date: 11/02/2011
Latitude: Not reported
Longitude: Not reported

Owner:

Owner ID: 010795
Owner Name: MID-SOUTH SALES INC

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WELSPUN PIPES (Continued)

A100350402

Owner Address: 3701 STAGECOACH RD
Owner City,St,Zip: JEFFERSON, AR 72079
Owner County: JEFFERSON
Owner Phone: 5013975055
Owner Type: Private Industry

AST/UST Eligible:
Facility Id: 60002133
Date Eligible: 11/2/2010
Transaction Code: FAOF
Entry Clerk: fields
Entry Date: 11/2/2010 12:15:39 PM
Update Clerk: Not reported
Update Date: Not reported
Eligibility Description: Financial Assurance on file

Tank Info:
Facility ID: 60002133
Tank ID: 1
Tank Status: Permanently Out of Service
Tank Status Date: 10/26/2011
Capacity: 2000
Install Date: 04/23/2010
Last Used Date: Not reported
Removal Status: Not reported
Gallons Removed: 0
Number of Compartments: 1
Tank Material: Steel
Tank Material Other: Not reported
Currently or Last Substance Stored: Empty, Diesel
Other Substance Description: Not reported
Piping Material: Not reported
Internal Corrosion Protection: None
External Corrosion Prot: Painted
GIS Location ID: Not reported
REC Create By: MCNAIR
REC Create Date: 05/10/2010
REC Modified By: MCNAIR
REC Modified Date: 11/02/2011
Tank Comments: Not reported
Decode for Tstatus: Permanently Out of Use

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
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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: 05/30/2017	Source: EPA
Date Data Arrived at EDR: 06/08/2017	Telephone: N/A
Date Made Active in Reports: 09/15/2017	Last EDR Contact: 11/03/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 01/15/2018
	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: 05/30/2017	Source: EPA
Date Data Arrived at EDR: 06/09/2017	Telephone: N/A
Date Made Active in Reports: 09/15/2017	Last EDR Contact: 11/03/2017
Number of Days to Update: 98	Next Scheduled EDR Contact: 01/15/2018
	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	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 05/30/2017	Source: EPA
Date Data Arrived at EDR: 06/09/2017	Telephone: N/A
Date Made Active in Reports: 09/15/2017	Last EDR Contact: 11/03/2017
Number of Days to Update: 98	Next Scheduled EDR Contact: 01/15/2018
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8704
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 10/06/2017
Number of Days to Update: 92	Next Scheduled EDR Contact: 01/15/2018
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

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

Date of Government Version: 07/11/2017	Source: EPA
Date Data Arrived at EDR: 07/21/2017	Telephone: 800-424-9346
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 11/03/2017
Number of Days to Update: 77	Next Scheduled EDR Contact: 01/29/2018
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 07/11/2017	Source: EPA
Date Data Arrived at EDR: 07/28/2017	Telephone: 800-424-9346
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 11/03/2017
Number of Days to Update: 70	Next Scheduled EDR Contact: 01/29/2018
	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: 09/13/2017	Source: EPA
Date Data Arrived at EDR: 09/26/2017	Telephone: 800-424-9346
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/08/2018
	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: 09/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/26/2017	Telephone: 214-665-6444
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/08/2018
	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: 09/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/26/2017	Telephone: 214-665-6444
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 09/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/26/2017	Telephone: 214-665-6444
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/08/2018
	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: 09/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/26/2017	Telephone: 214-665-6444
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/08/2018
	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: 05/22/2017	Source: Department of the Navy
Date Data Arrived at EDR: 06/13/2017	Telephone: 843-820-7326
Date Made Active in Reports: 09/15/2017	Last EDR Contact: 11/08/2017
Number of Days to Update: 94	Next Scheduled EDR Contact: 02/26/2018
	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: 08/10/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/30/2017	Telephone: 703-603-0695
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 08/30/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 12/11/2017
	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: 08/10/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/30/2017	Telephone: 703-603-0695
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 08/30/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 12/11/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 09/18/2017	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 09/21/2017	Telephone: 202-267-2180
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 09/21/2017
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

SHWS: Hazardous Substance Remedial Action Trust Fund Priority List

A partial prioritized listing of sites at which remedial actions and/or investigations shall be provided by the Hazardous Substance Remedial Action Trust Fund.

Date of Government Version: 09/11/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 09/12/2017	Telephone: 501-682-0850
Date Made Active in Reports: 10/02/2017	Last EDR Contact: 09/12/2017
Number of Days to Update: 20	Next Scheduled EDR Contact: 12/25/2017
	Data Release Frequency: Annually

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

SWF/LF: Solid Waste Facility Permit Database

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: 08/07/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 08/09/2017	Telephone: 501-682-0597
Date Made Active in Reports: 08/31/2017	Last EDR Contact: 11/07/2017
Number of Days to Update: 22	Next Scheduled EDR Contact: 02/19/2018
	Data Release Frequency: Quarterly

SWID: Solid Waste Illegal Dumps Database

A listing of illegal solid waste dumps.

Date of Government Version: 08/06/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 08/09/2017	Telephone: 501-682-0600
Date Made Active in Reports: 08/31/2017	Last EDR Contact: 11/07/2017
Number of Days to Update: 22	Next Scheduled EDR Contact: 02/19/2018
	Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LTANKS: Leaking Underground Storage Tank Data

A listing of leaking underground and aboveground storage tank locations.

Date of Government Version: 09/18/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 09/19/2017	Telephone: 501-682-0984
Date Made Active in Reports: 10/02/2017	Last EDR Contact: 09/19/2017
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/01/2018
	Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/26/2017	Telephone: 206-553-2857
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 11/07/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Quarterly

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: 05/01/2017	Source: EPA Region 8
Date Data Arrived at EDR: 07/27/2017	Telephone: 303-312-6271
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 78	Next Scheduled EDR Contact: 02/05/2018
	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: 04/14/2017	Source: EPA Region 7
Date Data Arrived at EDR: 07/27/2017	Telephone: 913-551-7003
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 71	Next Scheduled EDR Contact: 02/05/2018
	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: 04/24/2017	Source: EPA Region 6
Date Data Arrived at EDR: 07/27/2017	Telephone: 214-665-6597
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 71	Next Scheduled EDR Contact: 02/05/2018
	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: 10/14/2016	Source: EPA Region 4
Date Data Arrived at EDR: 01/27/2017	Telephone: 404-562-8677
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 98	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Semi-Annually

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: 04/14/2017	Source: EPA Region 1
Date Data Arrived at EDR: 07/27/2017	Telephone: 617-918-1313
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 71	Next Scheduled EDR Contact: 02/05/2018
	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: 04/26/2017	Source: EPA, Region 5
Date Data Arrived at EDR: 07/27/2017	Telephone: 312-886-7439
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 78	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/27/2017	Telephone: 415-972-3372
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 78	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Varies

State and tribal registered storage tank lists

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

Date of Government Version: 05/15/2017	Source: FEMA
Date Data Arrived at EDR: 05/30/2017	Telephone: 202-646-5797
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 10/13/2017
Number of Days to Update: 136	Next Scheduled EDR Contact: 01/22/2018
	Data Release Frequency: Varies

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

Date of Government Version: 09/18/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 09/19/2017	Telephone: 501-682-0984
Date Made Active in Reports: 10/02/2017	Last EDR Contact: 09/19/2017
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/01/2018
	Data Release Frequency: Quarterly

AST: Aboveground Tank Database
Aboveground storage tank locations.

Date of Government Version: 09/18/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 09/19/2017	Telephone: 501-682-0984
Date Made Active in Reports: 10/02/2017	Last EDR Contact: 09/19/2017
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/01/2018
	Data Release Frequency: Quarterly

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: 04/26/2017	Source: EPA Region 5
Date Data Arrived at EDR: 07/27/2017	Telephone: 312-886-6136
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 71	Next Scheduled EDR Contact: 02/05/2018
	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: 04/14/2017	Source: EPA, Region 1
Date Data Arrived at EDR: 07/27/2017	Telephone: 617-918-1313
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 71	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/14/2016	Source: EPA Region 4
Date Data Arrived at EDR: 01/27/2017	Telephone: 404-562-9424
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 98	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Semi-Annually

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: 04/25/2017	Source: EPA Region 10
Date Data Arrived at EDR: 07/27/2017	Telephone: 206-553-2857
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 78	Next Scheduled EDR Contact: 02/05/2018
	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: 04/13/2017	Source: EPA Region 9
Date Data Arrived at EDR: 07/27/2017	Telephone: 415-972-3368
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 78	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/01/2017	Source: EPA Region 8
Date Data Arrived at EDR: 07/27/2017	Telephone: 303-312-6137
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 78	Next Scheduled EDR Contact: 02/05/2018
	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: 05/02/2017	Source: EPA Region 7
Date Data Arrived at EDR: 07/27/2017	Telephone: 913-551-7003
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 71	Next Scheduled EDR Contact: 02/05/2018
	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: 10/01/2016	Source: EPA Region 6
Date Data Arrived at EDR: 01/26/2017	Telephone: 214-665-7591
Date Made Active in Reports: 05/05/2017	Last EDR Contact: 10/27/2017
Number of Days to Update: 99	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Sites Listing

A listing of sites with engineering controls in place.

Date of Government Version: 08/13/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 08/15/2017	Telephone: 501-682-0867
Date Made Active in Reports: 08/31/2017	Last EDR Contact: 08/15/2017
Number of Days to Update: 16	Next Scheduled EDR Contact: 11/27/2017
	Data Release Frequency: Varies

INST CONTROL: Institutional Control/Land Use Restriction Sites

Sites that have institutional controls and/or land use restrictions in place.

Date of Government Version: 08/13/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 08/15/2017	Telephone: 501-682-0867
Date Made Active in Reports: 08/31/2017	Last EDR Contact: 08/15/2017
Number of Days to Update: 16	Next Scheduled EDR Contact: 11/27/2017
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Sites

A listing of Voluntary Cleanup Program projects.

Date of Government Version: 07/05/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 08/18/2017	Telephone: 501-682-0867
Date Made Active in Reports: 10/02/2017	Last EDR Contact: 08/14/2017
Number of Days to Update: 45	Next Scheduled EDR Contact: 11/27/2017
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

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

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

INDIAN VCP R1: Voluntary Cleanup Priority Listing

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

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 09/25/2017
Number of Days to Update: 142	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Projects

Projects that the Department of Environmental Quality has received Brownfields applications for.

Date of Government Version: 08/13/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 08/15/2017	Telephone: 501-682-0867
Date Made Active in Reports: 08/31/2017	Last EDR Contact: 08/15/2017
Number of Days to Update: 16	Next Scheduled EDR Contact: 11/27/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/19/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/20/2017	Telephone: 202-566-2777
Date Made Active in Reports: 09/15/2017	Last EDR Contact: 09/20/2017
Number of Days to Update: 87	Next Scheduled EDR Contact: 01/01/2018
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Directory

A listing of recycling facilities.

Date of Government Version: 08/07/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 08/09/2017	Telephone: 501-682-0865
Date Made Active in Reports: 08/31/2017	Last EDR Contact: 11/07/2017
Number of Days to Update: 22	Next Scheduled EDR Contact: 02/19/2018
	Data Release Frequency: Semi-Annually

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 10/30/2017
Number of Days to Update: 52	Next Scheduled EDR Contact: 02/12/2018
	Data Release Frequency: Varies

ODI: Open Dump Inventory

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

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 10/20/2017
Number of Days to Update: 137	Next Scheduled EDR Contact: 02/05/2018
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

IHS OPEN DUMPS: Open Dumps on Indian Land

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

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

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/03/2017
Next Scheduled EDR Contact: 02/12/2018
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: 07/13/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 30

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/30/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: No Update Planned

CDL: Methamphetamine Contaminated Properties Listing

A listing of properties believed to be contaminated by the illegal manufacture of drugs.

Date of Government Version: 07/24/2017
Date Data Arrived at EDR: 07/26/2017
Date Made Active in Reports: 08/31/2017
Number of Days to Update: 36

Source: Department of Environmental Quality
Telephone: 501-683-1552
Last EDR Contact: 10/24/2017
Next Scheduled EDR Contact: 02/05/2018
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: 07/13/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 30

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/30/2017
Next Scheduled EDR Contact: 12/11/2017
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: 07/11/2017
Date Data Arrived at EDR: 07/26/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/03/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 09/21/2017	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 09/21/2017	Telephone: 202-366-4555
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 09/21/2017
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Quarterly

SPILLS: Emergency Response Incidents

Spills and releases notified to the Department of Environmental Quality

Date of Government Version: 07/09/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 07/12/2017	Telephone: 501-682-0716
Date Made Active in Reports: 08/31/2017	Last EDR Contact: 10/10/2017
Number of Days to Update: 50	Next Scheduled EDR Contact: 01/22/2018
	Data Release Frequency: Quarterly

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: 05/08/2011	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 03/06/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/30/2009	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 03/06/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 62	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: 09/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/26/2017	Telephone: 214-665-6444
Date Made Active in Reports: 10/06/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/08/2018
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 08/25/2017
Next Scheduled EDR Contact: 12/04/2017
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: 10/13/2017
Next Scheduled EDR Contact: 01/22/2018
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: 10/11/2017
Next Scheduled EDR Contact: 01/22/2018
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: 08/18/2017
Next Scheduled EDR Contact: 11/27/2017
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

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

Date of Government Version: 05/10/2017
Date Data Arrived at EDR: 05/17/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 121

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 01/08/2018
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/06/2017
Next Scheduled EDR Contact: 02/19/2018
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: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/24/2017
Next Scheduled EDR Contact: 11/20/2017
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: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/22/2017
Next Scheduled EDR Contact: 01/01/2018
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: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/23/2017
Next Scheduled EDR Contact: 12/04/2017
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: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
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: 09/27/2017
Date Data Arrived at EDR: 10/12/2017
Date Made Active in Reports: 10/20/2017
Number of Days to Update: 8

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 11/03/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/09/2017	Telephone: 202-564-8600
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 10/23/2017
Number of Days to Update: 57	Next Scheduled EDR Contact: 02/05/2018
	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	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	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	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 11/03/2017
Number of Days to Update: 3	Next Scheduled EDR Contact: 02/19/2018
	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	Source: EPA
Date Data Arrived at EDR: 06/09/2017	Telephone: 202-566-0500
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 10/13/2017
Number of Days to Update: 126	Next Scheduled EDR Contact: 01/22/2018
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 10/11/2017
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/22/2018
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	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	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	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	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 09/08/2016	Telephone: 301-415-7169
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 10/16/2017
Number of Days to Update: 43	Next Scheduled EDR Contact: 11/20/2017
	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	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 10/03/2017
Number of Days to Update: 76	Next Scheduled EDR Contact: 12/18/2017
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 09/08/2017
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/18/2017
	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: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 10/26/2017
Number of Days to Update: 83	Next Scheduled EDR Contact: 02/05/2018
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/02/2017
Date Data Arrived at EDR: 10/05/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/05/2017
Next Scheduled EDR Contact: 01/15/2018
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 Transportation, Office of Pipeline Safety Incident and Accident data.

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

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/31/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 06/30/2017
Date Data Arrived at EDR: 08/03/2017
Date Made Active in Reports: 10/20/2017
Number of Days to Update: 78

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/25/2017
Next Scheduled EDR Contact: 01/08/2018
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: 09/21/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 10/11/2017
Number of Days to Update: 546	Next Scheduled EDR Contact: 01/22/2018
	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: 12/23/2016	Source: Department of Energy
Date Data Arrived at EDR: 12/27/2016	Telephone: 202-586-3559
Date Made Active in Reports: 02/17/2017	Last EDR Contact: 11/02/2017
Number of Days to Update: 52	Next Scheduled EDR Contact: 02/19/2018
	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	Source: Department of Energy
Date Data Arrived at EDR: 10/11/2017	Telephone: 505-845-0011
Date Made Active in Reports: 11/03/2017	Last EDR Contact: 10/10/2017
Number of Days to Update: 23	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/09/2017	Telephone: 703-603-8787
Date Made Active in Reports: 09/15/2017	Last EDR Contact: 11/03/2017
Number of Days to Update: 98	Next Scheduled EDR Contact: 01/15/2018
	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 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/31/2017
Date Data Arrived at EDR: 08/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/30/2017
Next Scheduled EDR Contact: 12/11/2017
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: 09/01/2017
Next Scheduled EDR Contact: 12/11/2017
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: 09/01/2017
Next Scheduled EDR Contact: 12/11/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

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

Date of Government Version: 09/25/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/20/2017
Number of Days to Update: 24

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/25/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/23/2017	Source: EPA
Date Data Arrived at EDR: 09/06/2017	Telephone: (214) 665-2200
Date Made Active in Reports: 09/15/2017	Last EDR Contact: 09/06/2017
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/18/2017
	Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

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

Date of Government Version: 09/02/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/06/2017	Telephone: 202-564-2280
Date Made Active in Reports: 10/20/2017	Last EDR Contact: 09/06/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 12/18/2017
	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: 02/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/15/2017	Telephone: 202-564-0527
Date Made Active in Reports: 11/03/2017	Last EDR Contact: 09/21/2017
Number of Days to Update: 261	Next Scheduled EDR Contact: 12/11/2017
	Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2016	Source: Department of Defense
Date Data Arrived at EDR: 06/02/2017	Telephone: 703-704-1564
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 10/16/2017
Number of Days to Update: 133	Next Scheduled EDR Contact: 01/29/2018
	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: 08/17/2017	Source: EPA
Date Data Arrived at EDR: 08/17/2017	Telephone: 800-385-6164
Date Made Active in Reports: 09/15/2017	Last EDR Contact: 08/17/2017
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

AIRS: Permitted Facility Emission & Stack Data

Permitted facility emissions and stack data for the state.

Date of Government Version: 03/26/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 03/29/2017	Telephone: 501-682-0726
Date Made Active in Reports: 05/08/2017	Last EDR Contact: 11/03/2017
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ASBESTOS: Asbestos Notification of Intent Database

The database contains all properties/facilities that have submitted a Notice of Intent for renovation or demolition activities.

Date of Government Version: 07/23/2017
Date Data Arrived at EDR: 07/26/2017
Date Made Active in Reports: 08/30/2017
Number of Days to Update: 35

Source: Department of Environmental Quality
Telephone: 501-682-0717
Last EDR Contact: 10/24/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Quarterly

COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 03/27/2017
Number of Days to Update: 45

Source: Department of Environmental Quality
Telephone: 501-682-0600
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Varies

ENFORCEMENT: Consent Administrative Order, Notice of Violation Information Database

Violations issued to facilities in various Department of Environmental Quality programs, including Air, Hazardous Waste, Storage Tanks, Solid Waste and Water.

Date of Government Version: 07/24/2017
Date Data Arrived at EDR: 07/26/2017
Date Made Active in Reports: 08/31/2017
Number of Days to Update: 36

Source: Department of Environmental Quality
Telephone: 501-682-0892
Last EDR Contact: 10/24/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

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

Date of Government Version: 08/07/2017
Date Data Arrived at EDR: 09/19/2017
Date Made Active in Reports: 10/23/2017
Number of Days to Update: 34

Source: Department of Environmental Quality
Telephone: 501-682-0876
Last EDR Contact: 09/18/2017
Next Scheduled EDR Contact: 01/01/2018
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

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

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 04/18/2014
Date Made Active in Reports: 05/13/2014
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 501-682-0589
Last EDR Contact: 10/03/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Quarterly

Financial Assurance 3: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities.

Date of Government Version: 09/18/2017
Date Data Arrived at EDR: 09/19/2017
Date Made Active in Reports: 10/02/2017
Number of Days to Update: 13

Source: Department of Environmental Quality
Telephone: 501-682-0979
Last EDR Contact: 09/19/2017
Next Scheduled EDR Contact: 01/01/2018
Data Release Frequency: Quarterly

PERMITS: Permit Data System

A list of sites permitted by the Department of Environmental Quality, including Air, Mining, Solid Waste and Water.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/12/2017
Date Data Arrived at EDR: 06/14/2017
Date Made Active in Reports: 08/31/2017
Number of Days to Update: 78

Source: Department of Environmental Quality
Telephone: 501-682-0673
Last EDR Contact: 09/12/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Quarterly

SLUDGE: Poultry Sludge Permit Sites

Broiler fryer roast chickens, chicken eggs, poultry hatcheries, poultry and egg processing sites.

Date of Government Version: 06/12/2017
Date Data Arrived at EDR: 06/14/2017
Date Made Active in Reports: 08/31/2017
Number of Days to Update: 78

Source: Department of Environmental Quality
Telephone: 501-682-0673
Last EDR Contact: 09/12/2017
Next Scheduled EDR Contact: 12/25/2017
Data Release Frequency: Quarterly

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 09/24/2014
Date Made Active in Reports: 10/29/2014
Number of Days to Update: 35

Source: Department of Environmental Management
Telephone: 501-683-6700
Last EDR Contact: 11/08/2017
Next Scheduled EDR Contact: 02/26/2018
Data Release Frequency: Varies

UIC: Underground Injection Wells Database Listing

A listing of wells identified as Underground Injection Wells, in the Arkansas Oil and Gas Wells data base.

Date of Government Version: 07/17/2017
Date Data Arrived at EDR: 07/18/2017
Date Made Active in Reports: 08/31/2017
Number of Days to Update: 44

Source: Arkansas Oil & Gas Commission
Telephone: 870-862-4965
Last EDR Contact: 10/17/2017
Next Scheduled EDR Contact: 01/29/2018
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 Historic 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Historic 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 Arkansas.

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 Arkansas.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/16/2014
Number of Days to Update: 199

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 Arkansas.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 187

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/30/2013	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/19/2013	Telephone: 860-424-3375
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 08/18/2017
Number of Days to Update: 45	Next Scheduled EDR Contact: 11/27/2017
	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: 07/31/2017	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 08/03/2017	Telephone: 518-402-8651
Date Made Active in Reports: 10/12/2017	Last EDR Contact: 11/01/2017
Number of Days to Update: 70	Next Scheduled EDR Contact: 02/12/2018
	Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/25/2017	Telephone: 717-783-8990
Date Made Active in Reports: 09/25/2017	Last EDR Contact: 10/16/2017
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/29/2018
	Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013	Source: Department of Environmental Management
Date Data Arrived at EDR: 06/19/2015	Telephone: 401-222-2797
Date Made Active in Reports: 07/15/2015	Last EDR Contact: 08/21/2017
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016	Source: Department of Natural Resources
Date Data Arrived at EDR: 04/13/2017	Telephone: N/A
Date Made Active in Reports: 07/14/2017	Last EDR Contact: 09/11/2017
Number of Days to Update: 92	Next Scheduled EDR Contact: 12/25/2017
	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
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.

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.

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: Wetland Inventory

Source: US Fish & Wildlife Service

Telephone: 703-358-2171

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

LITTLE ROCK PORT ALTA
9010 FRAZIER PIKE
LITTLE ROCK, AR 72206

TARGET PROPERTY COORDINATES

Latitude (North):	34.701566 - 34° 42' 5.64"
Longitude (West):	92.178993 - 92° 10' 44.37"
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	575191.9
UTM Y (Meters):	3840058.8
Elevation:	243 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	6065273 SWEET HOME, AR
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 principal 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).

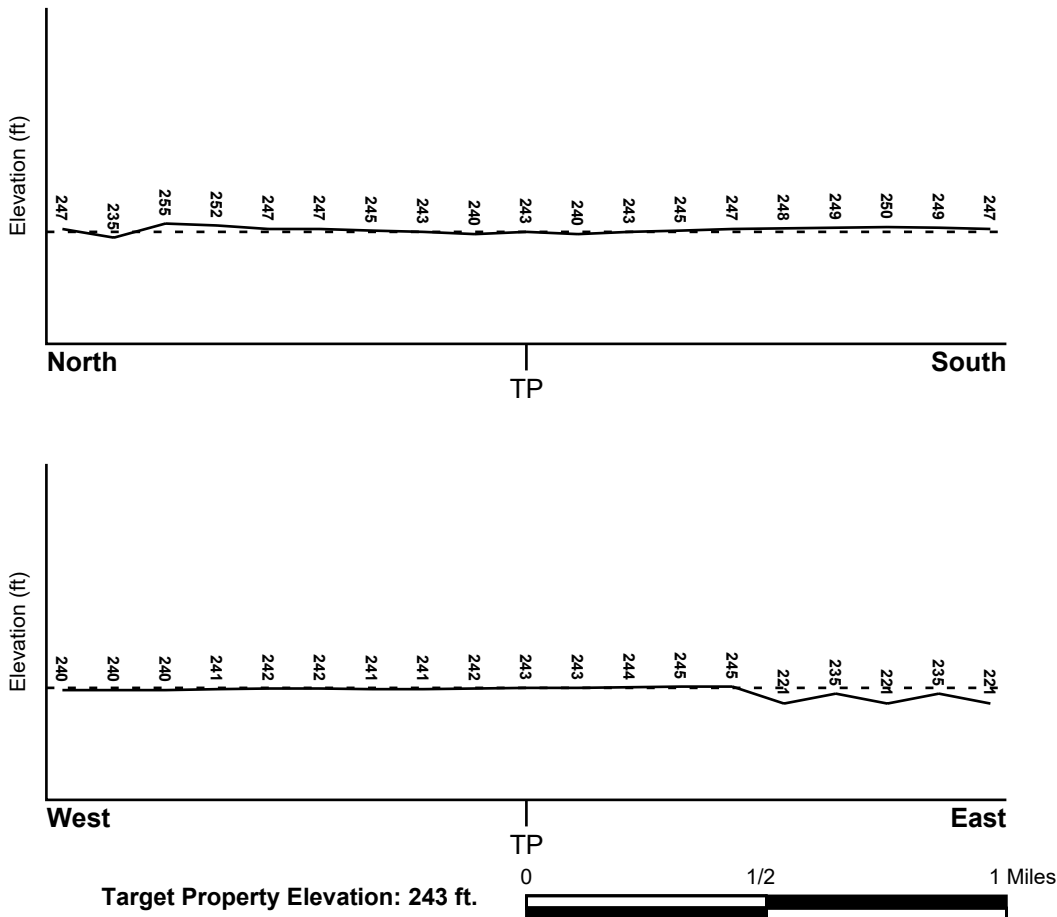
TOPOGRAPHIC INFORMATION

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 West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

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

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

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
05119C0483G	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
05119C0479G	FEMA FIRM Flood data
05119C0495G	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
SWEET HOME	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

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

AQUIFLOW®

Search Radius: 1.000 Mile.

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

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

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

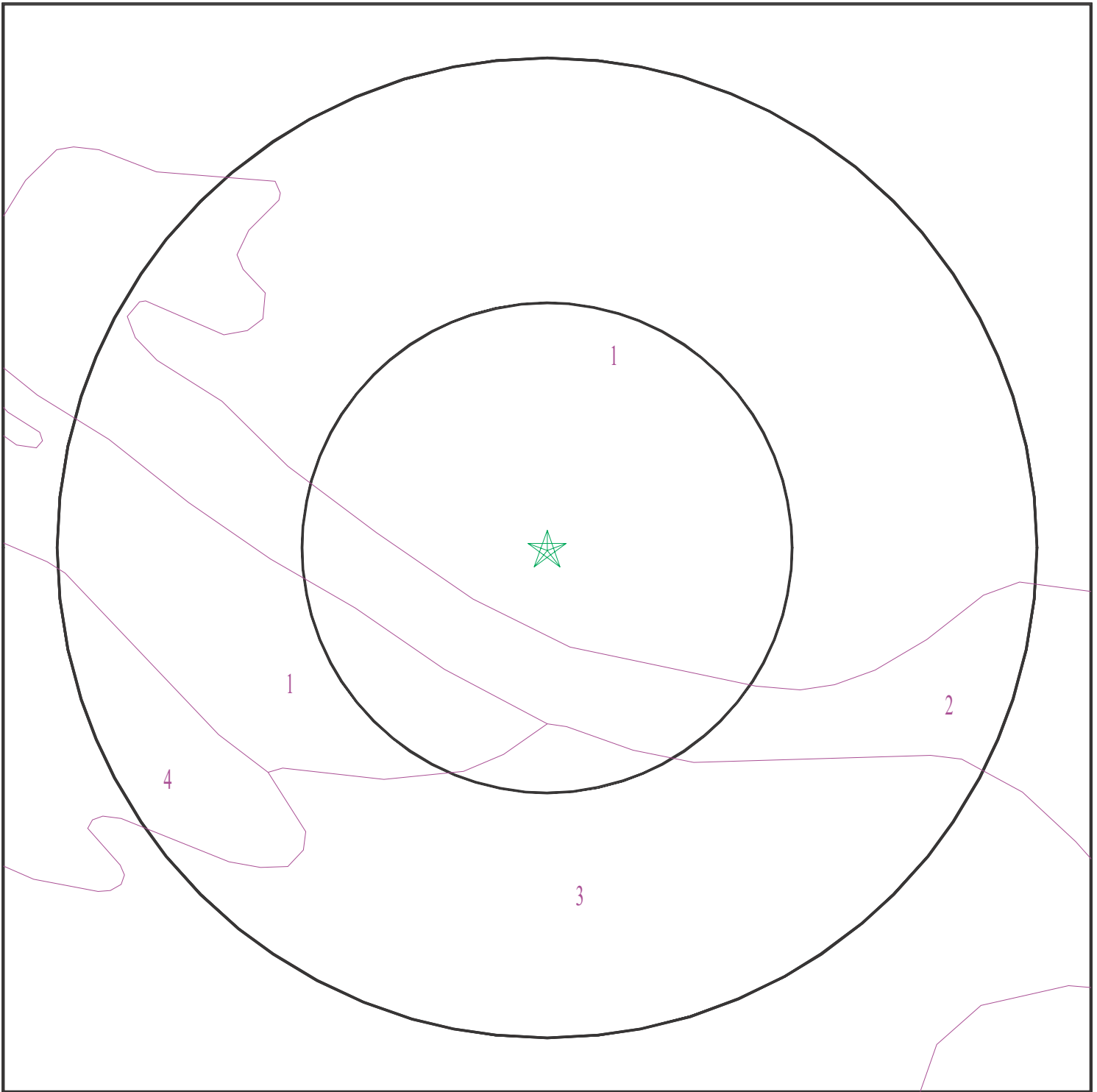
Era:	Cenozoic
System:	Quaternary
Series:	Holocene
Code:	Qh <i>(decoded above as Era, System & Series)</i>

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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

SSURGO SOIL MAP - 5103370.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Little Rock Port Alta
ADDRESS: 9010 Frazier Pike
Little Rock AR 72206
LAT/LONG: 34.701566 / 92.178993

CLIENT: GB Mc and Associates
CONTACT: Ryan Stoner
INQUIRY #: 5103370.2s
DATE: November 09, 2017 5:10 pm

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: Rilla

Soil Surface Texture: silt 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: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 153 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.1
2	7 inches	33 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 5.1
3	33 inches	53 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 5.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
4	53 inches	72 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7 Min: 4.5

Soil Map ID: 2

Soil Component Name: Keo

Soil Surface Texture: silt 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: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt 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: 7.8 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	9 inches	38 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.8 Min: 6.1
3	38 inches	40 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%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.8 Min: 6.1
4	40 inches	51 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 4	Max: 8.4 Min: 7.4
5	51 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 4	Max: 8.4 Min: 7.4

Soil Map ID: 3

Soil Component Name: Rilla

Soil Surface Texture: silt 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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 153 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.1
2	33 inches	53 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14 Min: 4	Max: 6 Min: 5.1
3	53 inches	72 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7 Min: 4.5
4	7 inches	33 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14 Min: 4	Max: 6 Min: 5.1

Soil Map ID: 4

Soil Component Name: Norwood

Soil Surface Texture: silty clay 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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.4
2	7 inches	35 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9
3	35 inches	57 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 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

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS40000119414	1/4 - 1/2 Mile SSE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	USGS40000119459	1/4 - 1/2 Mile NNW
3	USGS40000119402	1/2 - 1 Mile SSE
4	USGS40000119417	1/2 - 1 Mile WSW
5	USGS40000119425	1/2 - 1 Mile WSW
13	USGS40000119362	1/2 - 1 Mile South

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

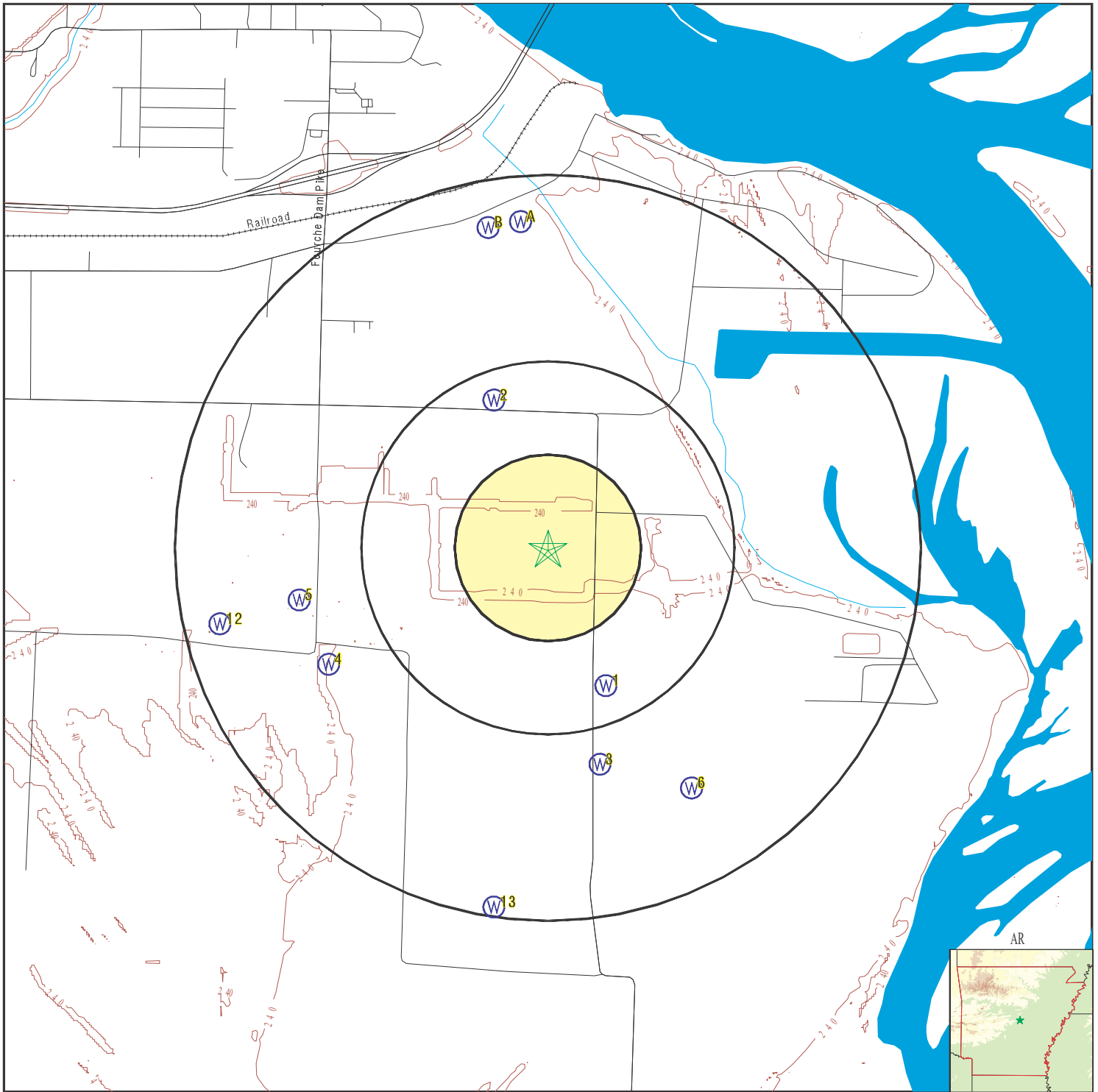
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

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

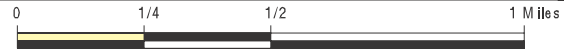
STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
6	AR1000000045814	1/2 - 1 Mile SSE
A7	AR1000000021831	1/2 - 1 Mile North
B8	AR1000000021845	1/2 - 1 Mile North
B9	AR1000000023478	1/2 - 1 Mile North
A10	AR1000000021829	1/2 - 1 Mile North
A11	AR1000000021834	1/2 - 1 Mile North
12	AR1000000021943	1/2 - 1 Mile WSW

PHYSICAL SETTING SOURCE MAP - 5103370.2s



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



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



SITE NAME: Little Rock Port Alta
 ADDRESS: 9010 Frazier Pike
 Little Rock AR 72206
 LAT/LONG: 34.701566 / 92.178993

CLIENT: GB Mc and Associates
 CONTACT: Ryan Stoner
 INQUIRY #: 5103370.2s
 DATE: November 09, 2017 5:09 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
SSE **FED USGS** **USGS40000119414**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-AR		
Formal name:	USGS Arkansas Water Science Center		
Monloc Identifier:	USGS-344146092103401		
Monloc name:	01N11W22DBC1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	11110207	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.6962033
Longitude:	-92.1762578	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	243.48
Vert measure units:	feet	Vertacc measure val:	.01
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Mississippi River Valley alluvial aquifer		
Formation type:	Quaternary Alluvium		
Aquifer type:	Not Reported		
Construction date:	19590624	Welldepth:	40
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 42

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1971-04-19	11.47				
	Note: Other conditions existed that would affect the measured water level.				
1970-10-16	13.08				
	Note: Other conditions existed that would affect the measured water level.				
1970-04-15	11.60				
	Note: Other conditions existed that would affect the measured water level.				
1969-10-20	12.65				
	Note: Other conditions existed that would affect the measured water level.				
1969-06-19	10.36				
	Note: Other conditions existed that would affect the measured water level.				
1969-05-21	10.07				
	Note: Other conditions existed that would affect the measured water level.				
1969-04-23	9.91				
	Note: Other conditions existed that would affect the measured water level.				
1969-03-25	10.74				
	Note: Other conditions existed that would affect the measured water level.				
1969-02-20	11.28				
	Note: Other conditions existed that would affect the measured water level.				
1969-01-27	12.30				
	Note: Other conditions existed that would affect the measured water level.				
1968-12-20	13.32				
	Note: Other conditions existed that would affect the measured water level.				
1968-11-04	14.28				
	Note: Other conditions existed that would affect the measured water level.				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1968-10-15	14.71				
	Note: Other conditions existed that would affect the measured water level.				
1968-09-27	15.15				
	Note: Other conditions existed that would affect the measured water level.				
1968-04-15	14.27				
	Note: Other conditions existed that would affect the measured water level.				
1967-10-02	18.47				
	Note: Other conditions existed that would affect the measured water level.				
1967-04-21	20.28				
	Note: Other conditions existed that would affect the measured water level.				
1966-09-29	18.87				
	Note: Other conditions existed that would affect the measured water level.				
1966-07-19	18.68				
	Note: Other conditions existed that would affect the measured water level.				
1966-04-07	19.24				
	Note: Other conditions existed that would affect the measured water level.				
1965-10-19	18.50				
	Note: Other conditions existed that would affect the measured water level.				
1965-04-20	17.85				
	Note: Other conditions existed that would affect the measured water level.				
1964-10-05	20.07				
	Note: Other conditions existed that would affect the measured water level.				
1964-04-14	20.62				
	Note: Other conditions existed that would affect the measured water level.				
1964-01-17	21.24				
	Note: Other conditions existed that would affect the measured water level.				
1963-09-25	19.74				
	Note: Other conditions existed that would affect the measured water level.				
1963-07-24	19.12				
	Note: Other conditions existed that would affect the measured water level.				
1963-04-05	17.73				
	Note: Other conditions existed that would affect the measured water level.				
1963-01-04	18.43				
	Note: Other conditions existed that would affect the measured water level.				
1962-09-24	16.64				
	Note: Other conditions existed that would affect the measured water level.				
1962-07-17	14.77				
	Note: Other conditions existed that would affect the measured water level.				
1962-04-13	12.04				
	Note: Other conditions existed that would affect the measured water level.				
1962-04-02	12.18				
	Note: Other conditions existed that would affect the measured water level.				
1962-01-25	13.54				
	Note: Other conditions existed that would affect the measured water level.				
1961-10-25	15.19				
	Note: Other conditions existed that would affect the measured water level.				
1961-09-19	14.87				
	Note: Other conditions existed that would affect the measured water level.				
1961-07-28	14.02				
	Note: Other conditions existed that would affect the measured water level.				
1961-04-07	15.02				
	Note: Other conditions existed that would affect the measured water level.				
1961-02-13	17.14				
	Note: Other conditions existed that would affect the measured water level.				
1960-03-28	10.55				
	Note: Other conditions existed that would affect the measured water level.				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-09-23	15.88				
Note: Other conditions existed that would affect the measured water level.					
1959-07-14	18.28				
Note: Other conditions existed that would affect the measured water level.					

2

NNW
1/4 - 1/2 Mile
Higher

FED USGS

USGS40000119459

Org. Identifier:	USGS-AR		
Formal name:	USGS Arkansas Water Science Center		
Monloc Identifier:	USGS-344226092105301		
Monloc name:	01N11W15CCD1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	11110207	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.7073143
Longitude:	-92.1815358	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	242.55
Vert measure units:	feet	Vertacc measure val:	.01
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Mississippi River Valley alluvial aquifer		
Formation type:	Quaternary Alluvium		
Aquifer type:	Not Reported		
Construction date:	18991231	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 79

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1965-04-20	17.35				
Note: Other conditions existed that would affect the measured water level.					
1964-10-06	18.84				
Note: Other conditions existed that would affect the measured water level.					
1964-06-12	18.10				
Note: Other conditions existed that would affect the measured water level.					
1964-05-07	18.63				
Note: Other conditions existed that would affect the measured water level.					
1964-04-14	19.43				
Note: Other conditions existed that would affect the measured water level.					
1964-03-12	19.82				
Note: Other conditions existed that would affect the measured water level.					
1964-02-11	19.97				
Note: Other conditions existed that would affect the measured water level.					
1964-01-17	19.67				
Note: Other conditions existed that would affect the measured water level.					
1963-12-16	19.27				
Note: Other conditions existed that would affect the measured water level.					

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1963-11-22	18.91				
	Note: Other conditions existed that would affect the measured water level.				
1963-10-30	18.65				
	Note: Other conditions existed that would affect the measured water level.				
1963-09-26	18.20				
	Note: Other conditions existed that would affect the measured water level.				
1963-09-03	17.92				
	Note: Other conditions existed that would affect the measured water level.				
1963-08-08	17.60				
	Note: Other conditions existed that would affect the measured water level.				
1963-07-24	17.53				
	Note: Other conditions existed that would affect the measured water level.				
1963-06-18	17.15				
	Note: Other conditions existed that would affect the measured water level.				
1963-05-20	16.84				
	Note: Other conditions existed that would affect the measured water level.				
1963-04-05	16.50				
	Note: Other conditions existed that would affect the measured water level.				
1963-03-18	16.50				
	Note: Other conditions existed that would affect the measured water level.				
1963-02-15	16.39				
	Note: Other conditions existed that would affect the measured water level.				
1963-01-04	15.93				
	Note: Other conditions existed that would affect the measured water level.				
1962-12-14	15.65				
	Note: Other conditions existed that would affect the measured water level.				
1962-11-13	15.45				
	Note: Other conditions existed that would affect the measured water level.				
1962-10-15	15.24				
	Note: Other conditions existed that would affect the measured water level.				
1962-09-24	14.90				
	Note: Other conditions existed that would affect the measured water level.				
1962-09-07	14.47				
	Note: Other conditions existed that would affect the measured water level.				
1962-08-22	14.03				
	Note: Other conditions existed that would affect the measured water level.				
1962-07-17	13.13				
	Note: Other conditions existed that would affect the measured water level.				
1962-06-04	12.32				
	Note: Other conditions existed that would affect the measured water level.				
1962-05-09	11.33				
	Note: Other conditions existed that would affect the measured water level.				
1962-04-13	10.55				
	Note: Other conditions existed that would affect the measured water level.				
1962-03-16	10.54				
	Note: Other conditions existed that would affect the measured water level.				
1962-02-16	11.59				
	Note: Other conditions existed that would affect the measured water level.				
1962-01-25	11.78				
	Note: Other conditions existed that would affect the measured water level.				
1961-12-20	12.91				
	Note: Other conditions existed that would affect the measured water level.				
1961-11-20	14.04				
	Note: Other conditions existed that would affect the measured water level.				
1961-10-25	13.80				
	Note: Other conditions existed that would affect the measured water level.				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1961-09-18	13.20				
	Note: Other conditions existed that would affect the measured water level.				
1961-08-22	12.30				
	Note: Other conditions existed that would affect the measured water level.				
1961-07-28	11.58				
	Note: Other conditions existed that would affect the measured water level.				
1961-06-16	9.82				
	Note: Other conditions existed that would affect the measured water level.				
1961-05-23	9.92				
	Note: Other conditions existed that would affect the measured water level.				
1961-04-06	13.54				
	Note: Other conditions existed that would affect the measured water level.				
1961-03-24	14.29				
	Note: Other conditions existed that would affect the measured water level.				
1961-02-13	15.49				
	Note: Other conditions existed that would affect the measured water level.				
1961-01-23	15.20				
	Note: Other conditions existed that would affect the measured water level.				
1960-12-14	14.81				
	Note: Other conditions existed that would affect the measured water level.				
1960-11-14	14.50				
	Note: Other conditions existed that would affect the measured water level.				
1960-10-28	14.02				
	Note: Other conditions existed that would affect the measured water level.				
1960-09-19	12.82				
	Note: Other conditions existed that would affect the measured water level.				
1960-08-17	11.52				
	Note: Other conditions existed that would affect the measured water level.				
1960-07-05	9.83				
	Note: Other conditions existed that would affect the measured water level.				
1960-06-06	9.26				
	Note: Other conditions existed that would affect the measured water level.				
1960-05-09	10.24				
	Note: Other conditions existed that would affect the measured water level.				
1960-04-18	9.98				
	Note: Other conditions existed that would affect the measured water level.				
1960-03-28	8.89				
	Note: Other conditions existed that would affect the measured water level.				
1960-02-29	9.78				
	Note: Other conditions existed that would affect the measured water level.				
1960-02-01	9.90				
	Note: Other conditions existed that would affect the measured water level.				
1960-01-04	10.76				
	Note: Other conditions existed that would affect the measured water level.				
1959-12-07	11.79				
	Note: Other conditions existed that would affect the measured water level.				
1959-11-09	11.65				
	Note: Other conditions existed that would affect the measured water level.				
1959-10-20	12.04				
	Note: Other conditions existed that would affect the measured water level.				
1959-09-23	14.20				
	Note: Other conditions existed that would affect the measured water level.				
1959-09-14	13.97				
	Note: Other conditions existed that would affect the measured water level.				
1959-08-20	13.68				
	Note: Other conditions existed that would affect the measured water level.				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-07-14	14.05				
Note: Other conditions existed that would affect the measured water level.					
1959-05-06	13.63				
Note: Other conditions existed that would affect the measured water level.					
1959-03-30	13.42				
Note: Other conditions existed that would affect the measured water level.					
1959-03-03	13.44				
Note: Other conditions existed that would affect the measured water level.					
1959-02-03	14.19				
Note: Other conditions existed that would affect the measured water level.					
1959-01-09	14.45				
Note: Other conditions existed that would affect the measured water level.					
1958-11-21	13.39				
Note: Other conditions existed that would affect the measured water level.					
1958-10-24	12.79				
Note: Other conditions existed that would affect the measured water level.					
1958-10-01	11.85				
Note: Other conditions existed that would affect the measured water level.					
1958-08-27	11.21				
Note: Other conditions existed that would affect the measured water level.					
1958-07-25	10.15				
Note: Other conditions existed that would affect the measured water level.					
1958-06-13	9.52				
Note: Other conditions existed that would affect the measured water level.					
1958-05-20	7.75				
Note: Other conditions existed that would affect the measured water level.					
1958-03-25	11.07				
Note: Other conditions existed that would affect the measured water level.					

3
SSE
1/2 - 1 Mile
Higher

FED USGS USGS40000119402

Org. Identifier:	USGS-AR		
Formal name:	USGS Arkansas Water Science Center		
Monloc Identifier:	USGS-344135092103501		
Monloc name:	01N11W16DDC1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	11110207	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.6931478
Longitude:	-92.1765356	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	250.00
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Mississippi River Valley alluvial aquifer		
Formation type:	Quaternary Alluvium		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type: Not Reported
 Construction date: 18991231 Welldepth: 40
 Welldepth units: ft Wellholedepth: Not Reported
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

4
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40000119417

Org. Identifier: USGS-AR
 Formal name: USGS Arkansas Water Science Center
 Monloc Identifier: USGS-344149092112101
 Monloc name: 01N11W21DAC2
 Monloc type: Well
 Monloc desc: Not Reported
 Huc code: 11110207 Drainagearea value: Not Reported
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported
 Contrib drainagearea units: Not Reported Latitude: 34.6970367
 Longitude: -92.1893138 Sourcemap scale: 24000
 Horiz Acc measure: 5 Horiz Acc measure units: seconds
 Horiz Collection method: Interpolated from map
 Horiz coord refsys: NAD83 Vert measure val: 243.04
 Vert measure units: feet Vertacc measure val: .01
 Vert accmeasure units: feet
 Vertcollection method: Level or other surveying method
 Vert coord refsys: NGVD29 Countrycode: US
 Aquifername: Mississippi River Valley alluvial aquifer
 Formation type: Quaternary Alluvium
 Aquifer type: Not Reported
 Construction date: 19620827 Welldepth: 66
 Welldepth units: ft Wellholedepth: Not Reported
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 23

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1969-03-25	8.48				
	Note: Other conditions existed that would affect the measured water level.				
1969-02-20	9.17				
	Note: Other conditions existed that would affect the measured water level.				
1969-01-27	10.28				
	Note: Other conditions existed that would affect the measured water level.				
1968-12-20	11.45				
	Note: Other conditions existed that would affect the measured water level.				
1968-11-04	12.60				
	Note: Other conditions existed that would affect the measured water level.				
1968-09-30	12.28				
	Note: Other conditions existed that would affect the measured water level.				
1968-04-15	11.44				
	Note: Other conditions existed that would affect the measured water level.				
1967-10-02	15.00				
	Note: Other conditions existed that would affect the measured water level.				
1967-06-22	13.94				
	Note: Other conditions existed that would affect the measured water level.				
1967-04-21	15.47				
	Note: Other conditions existed that would affect the measured water level.				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1966-09-29	14.90				
Note: Other conditions existed that would affect the measured water level.					
1966-04-07	15.66				
Note: Other conditions existed that would affect the measured water level.					
1965-10-19	15.90				
Note: Other conditions existed that would affect the measured water level.					
1965-04-20	14.11				
Note: Other conditions existed that would affect the measured water level.					
1964-10-05	16.22				
Note: Other conditions existed that would affect the measured water level.					
1964-04-14	15.94				
Note: Other conditions existed that would affect the measured water level.					
1964-01-16	17.24				
Note: Other conditions existed that would affect the measured water level.					
1963-09-25	15.84				
Note: Other conditions existed that would affect the measured water level.					
1963-07-24	15.07				
Note: Other conditions existed that would affect the measured water level.					
1963-04-09	13.48				
Note: Other conditions existed that would affect the measured water level.					
1963-01-04	13.84				
Note: Other conditions existed that would affect the measured water level.					
1962-10-31	13.16				
Note: Other conditions existed that would affect the measured water level.					
1962-09-24	12.59				
Note: Other conditions existed that would affect the measured water level.					

5
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40000119425

Org. Identifier:	USGS-AR		
Formal name:	USGS Arkansas Water Science Center		
Monloc Identifier:	USGS-344158092112601		
Monloc name:	01N11W21DBA1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	11110207	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.6995367
Longitude:	-92.1907027	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	240.00
Vert measure units:	feet	Vertacc measure val:	5.0
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Mississippi River Valley alluvial aquifer		
Formation type:	Quaternary Alluvium		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	18.5
Construction date:	18991231	Wellholeddepth:	Not Reported
Welldepth units:	ft		
Wellholeddepth units:	Not Reported		

Ground-water levels, Number of Measurements: 17

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-03-03	7.16				
	Note: Other conditions existed that would affect the measured water level.				
1959-02-03	8.63				
	Note: Other conditions existed that would affect the measured water level.				
1959-01-09	9.53				
	Note: Other conditions existed that would affect the measured water level.				
1958-11-21	6.65				
	Note: Other conditions existed that would affect the measured water level.				
1958-10-24	8.65				
	Note: Other conditions existed that would affect the measured water level.				
1958-10-01	5.44				
	Note: Other conditions existed that would affect the measured water level.				
1958-08-27	8.41				
	Note: Other conditions existed that would affect the measured water level.				
1958-07-25	6.65				
	Note: Other conditions existed that would affect the measured water level.				
1958-06-13	6.08				
	Note: Other conditions existed that would affect the measured water level.				
1958-05-20	4.70				
	Note: Other conditions existed that would affect the measured water level.				
1958-03-25	5.83				
	Note: Other conditions existed that would affect the measured water level.				
1958-02-24	7.43				
	Note: Other conditions existed that would affect the measured water level.				
1958-01-14	7.24				
	Note: Other conditions existed that would affect the measured water level.				
1957-08-02	6.98				
	Note: Other conditions existed that would affect the measured water level.				
1957-06-21	6.50				
	Note: Other conditions existed that would affect the measured water level.				
1957-04-18	11.37				
	Note: Other conditions existed that would affect the measured water level.				
1957-04-15	11.46				
	Note: Other conditions existed that would affect the measured water level.				

6
SSE
1/2 - 1 Mile
Higher

AR WELLS AR1000000045814

Well id :	92102034413201	Original w:	921020344132
City and z:	SWEET HOME AR 72164	County nam:	PULASKI
Latitude:	34-41-32	Longitude:	92-10-20
Well statu:	New Well	Depth:	70
Date well :	20070725	Use code:	IR
Owner name:	MC GEORGE CONTRACTOR	Driller na:	CLAY ELDER
Remarks :	Not Reported	Site id:	AR1000000045814

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A7
North
1/2 - 1 Mile
Higher

AR WELLS AR1000000021831

Well id :	92104934425001	Original w:	921049344250
City and z:	LITTLE ROCK, AR	County nam:	PULASKI
Latitude:	34-42-50	Longitude:	92-10-49
Well statu:	New Well	Depth:	27
Date well :	19970820	Use code:	MO
Owner name:	SAFETY KLEEN	Driller na:	GARRY MOYERS
Remarks :	Not Reported	Site id:	AR1000000021831

B8
North
1/2 - 1 Mile
Higher

AR WELLS AR1000000021845

Well id :	92105534425001	Original w:	921055344250
City and z:	LITTLE ROCK, AR	County nam:	PULASKI
Latitude:	34-42-50	Longitude:	92-10-55
Well statu:	New Well	Depth:	24
Date well :	19970820	Use code:	MO
Owner name:	SAFETY KLEEN	Driller na:	GARRY MOYERS
Remarks :	Not Reported	Site id:	AR1000000021845

B9
North
1/2 - 1 Mile
Higher

AR WELLS AR1000000023478

Well id :	92151234425101	Original w:	921512344251
City and z:	LITTLE ROCK, AR	County nam:	PULASKI
Latitude:	34-42-51	Longitude:	92-10-54
Well statu:	New Well	Depth:	27
Date well :	19970820	Use code:	MO
Owner name:	SAFETY-KLEEN	Driller na:	GARRY MOYERS
Remarks :	Not Reported	Site id:	AR1000000023478

A10
North
1/2 - 1 Mile
Higher

AR WELLS AR1000000021829

Well id :	92104834425201	Original w:	921048344252
City and z:	LITTLE ROCK, AR	County nam:	PULASKI
Latitude:	34-42-52	Longitude:	92-10-48
Well statu:	New Well	Depth:	25
Date well :	19970820	Use code:	MO
Owner name:	SAFETY KLEEN	Driller na:	GARRY MOYERS
Remarks :	Not Reported	Site id:	AR1000000021829

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A11
North
1/2 - 1 Mile
Higher

AR WELLS AR1000000021834

Well id :	92105034425201	Original w:	921050344252
City and z:	LITTLE ROCK, AR	County nam:	PULASKI
Latitude:	34-42-52	Longitude:	92-10-50
Well statu:	New Well	Depth:	25
Date well :	19970820	Use code:	MO
Owner name:	SAFETY KLEEN	Driller na:	GARRY MOYERS
Remarks :	Not Reported	Site id:	AR1000000021834

12
WSW
1/2 - 1 Mile
Lower

AR WELLS AR1000000021943

Well id :	92114034415501	Original w:	921140344155
City and z:	LITTLE ROCK, AR 72206	County nam:	PULASKI
Latitude:	34-41-55	Longitude:	92-11-40
Well statu:	New Well	Depth:	67
Date well :	19970410	Use code:	DO
Owner name:	PRO TRANSPORTATION CO.	Driller na:	BRUCE BURDETT
Remarks :	Not Reported	Site id:	AR1000000021943

13
South
1/2 - 1 Mile
Higher

FED USGS USGS40000119362

Org. Identifier:	USGS-AR		
Formal name:	USGS Arkansas Water Science Center		
Monloc Identifier:	USGS-344115092105301		
Monloc name:	01N11W27BDA1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	11110207	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.6875924
Longitude:	-92.1815358	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	250.00
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Mississippi River Valley alluvial aquifer		
Formation type:	Quaternary Alluvium		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type: Not Reported
Construction date: 18991231
Welldepth units: ft
Wellholedepth units: Not Reported

Welldepth: 40
Wellholedepth: Not Reported

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: AR Radon

Radon Test Results

Total Meas	Mean	Geom mean	Median	Std Dev	Max	% Sites>4 pCi/L	% Sites>20 pCi/L
127	0.9	0.6	0.6	1.4	15.2	2	0

Federal EPA Radon Zone for PULASKI County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 72206

Number of sites tested: 6

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.600 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

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: Wetland Inventory

Source: US Fish & Wildlife Service

Telephone: 703-358-2171

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

Arkansas Community Public Water Systems

Source: Health Department

Telephone: 501-661-2623

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database

Source: Arkansas Geographic Information Office

Telephone: 501-682-2929

Oil and gas well locations.

RADON

State Database: AR Radon

Source: Department of Health

Telephone: 501-661-2301

Radon Test Results

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 F

Historical Topographic Photos

Little Rock Port Alta

9010 Frazier Pike

Little Rock, AR 72206

Inquiry Number: 5103370.4

November 09, 2017

EDR Historical Topo Map Report

with QuadMatch™



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

EDR Historical Topo Map Report

11/09/17

Site Name:

Little Rock Port Alta
9010 Frazier Pike
Little Rock, AR 72206
EDR Inquiry # 5103370.4

Client Name:

GB Mc and Associates
219 Brown Lane
Bryant, AR 72022
Contact: Ryan Stoner



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by GB Mc and Associates were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	2640-17-500	Latitude:	34.701566 34° 42' 6" North
Project:	Little Rock Port Alta	Longitude:	-92.178993 -92° 10' 44" West
		UTM Zone:	Zone 15 North
		UTM X Meters:	575190.15
		UTM Y Meters:	3840255.38
		Elevation:	243.00' above sea level

Maps Provided:

2014	1945
1994	1935
1986	1893
1975	1891
1970	
1961	
1954	
1946	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2014 Source Sheets



Sweet Home
2014
7.5-minute, 24000

1994 Source Sheets



Sweet Home
1994
7.5-minute, 24000
Aerial Photo Revised 1994

1986 Source Sheets



Sweet Home
1986
7.5-minute, 24000
Aerial Photo Revised 1984

1975 Source Sheets



Sweet Home
1975
7.5-minute, 24000
Aerial Photo Revised 1975

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1970 Source Sheets



Sweet Home
1970
7.5-minute, 24000
Aerial Photo Revised 1970

1961 Source Sheets



Sweet Home
1961
7.5-minute, 24000
Aerial Photo Revised 1960

1954 Source Sheets



LITTLE ROCK VICINITY
1954
7.5-minute, 24000



Sweet Home
1954
7.5-minute, 24000
Aerial Photo Revised 1954

1946 Source Sheets



SWEET HOME
1946
7.5-minute, 31680

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1945 Source Sheets



Sweet Home
1945
7.5-minute, 31680

1935 Source Sheets



Sweet Home
1935
7.5-minute, 24000

1893 Source Sheets



Little Rock
1893
30-minute, 125000

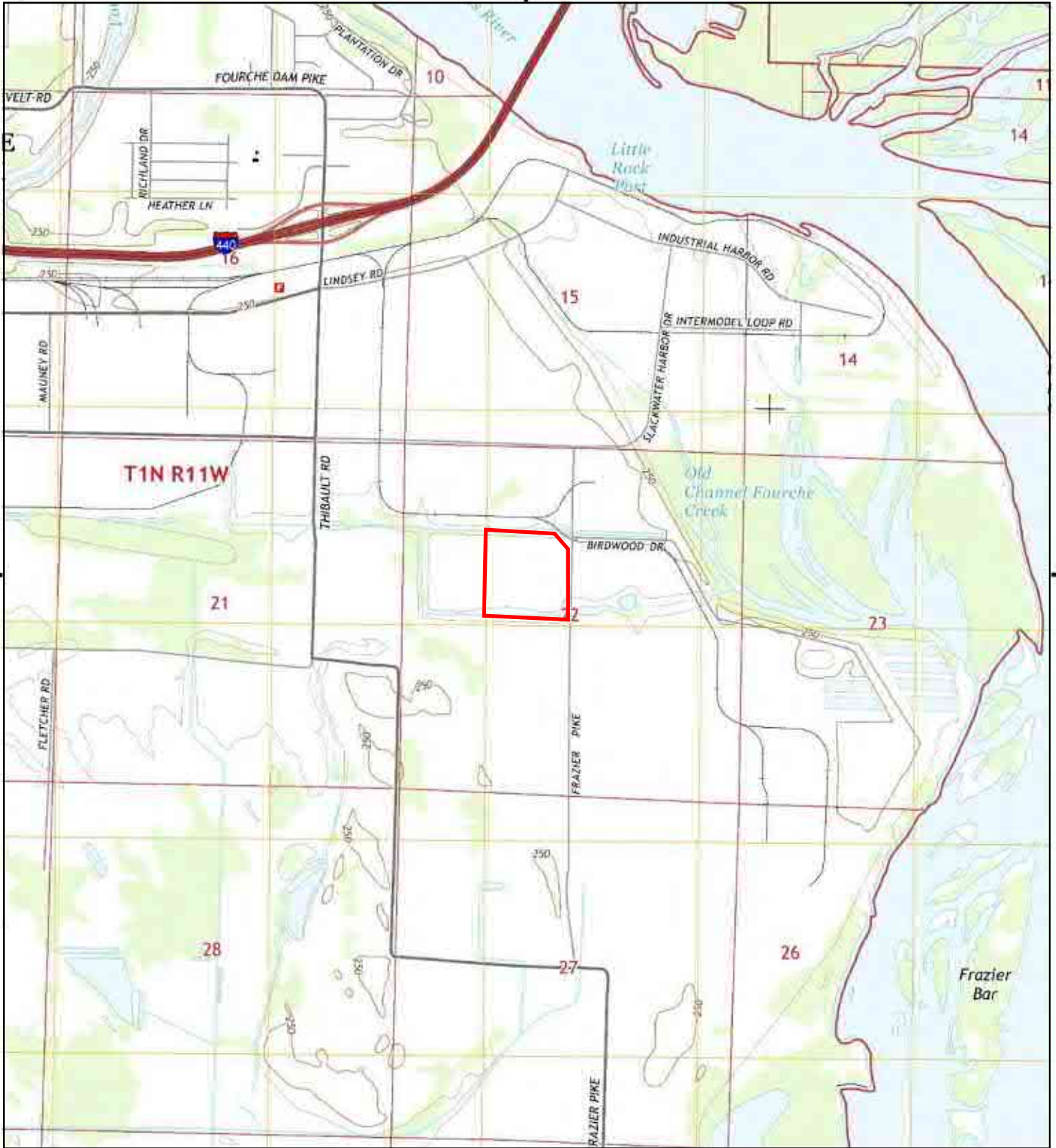


Camp Pike
1893
30-minute, 125000

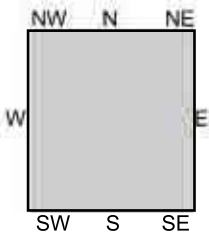
1891 Source Sheets



Little Rock
1891
30-minute, 125000



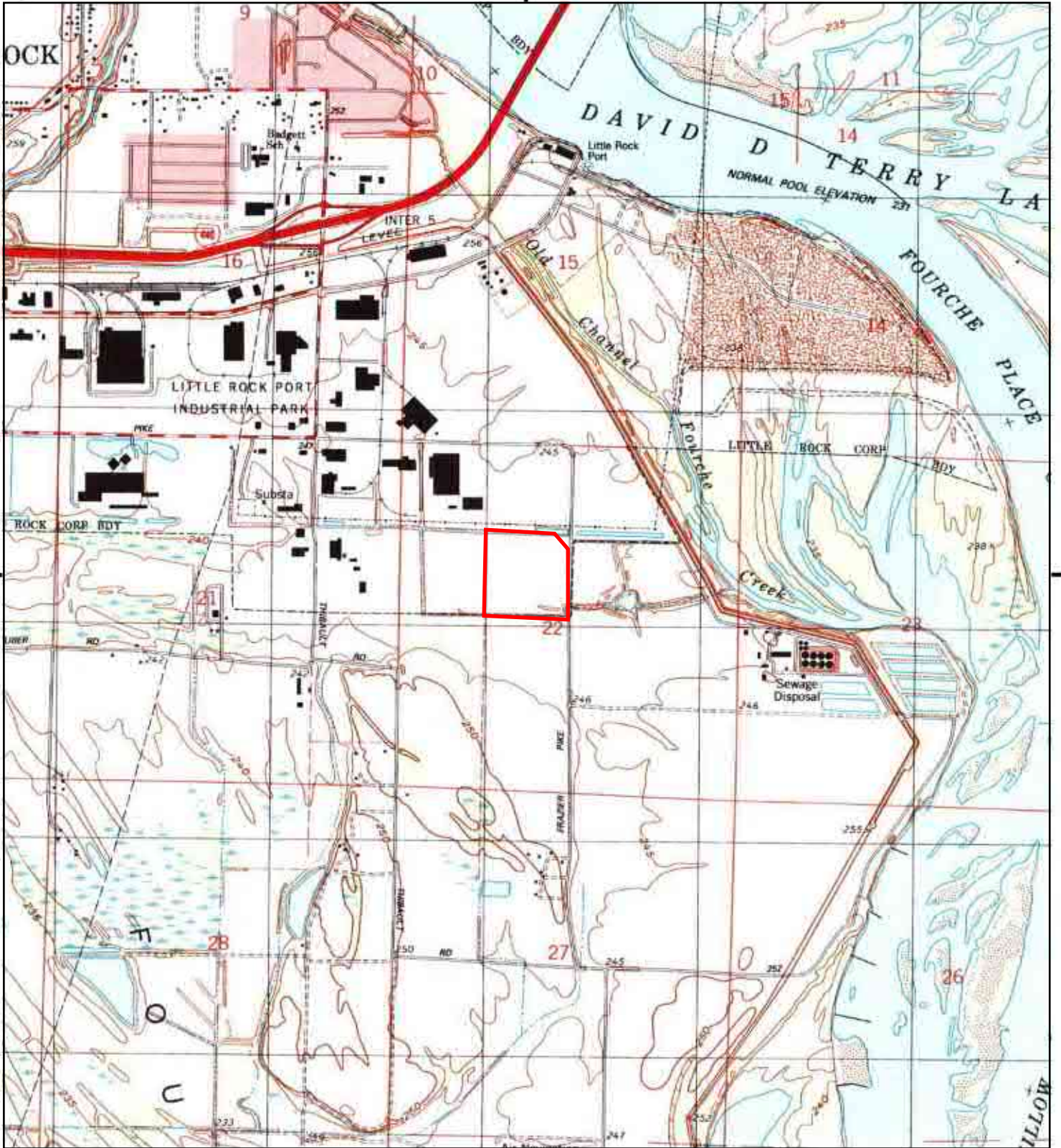
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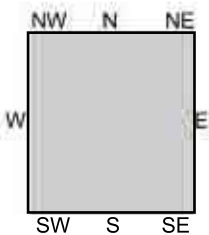
TP, Sweet Home, 2014, 7.5-minute

SITE NAME: Little Rock Port Alta
ADDRESS: 9010 Frazier Pike
 Little Rock, AR 72206
CLIENT: GB Mc and Associates





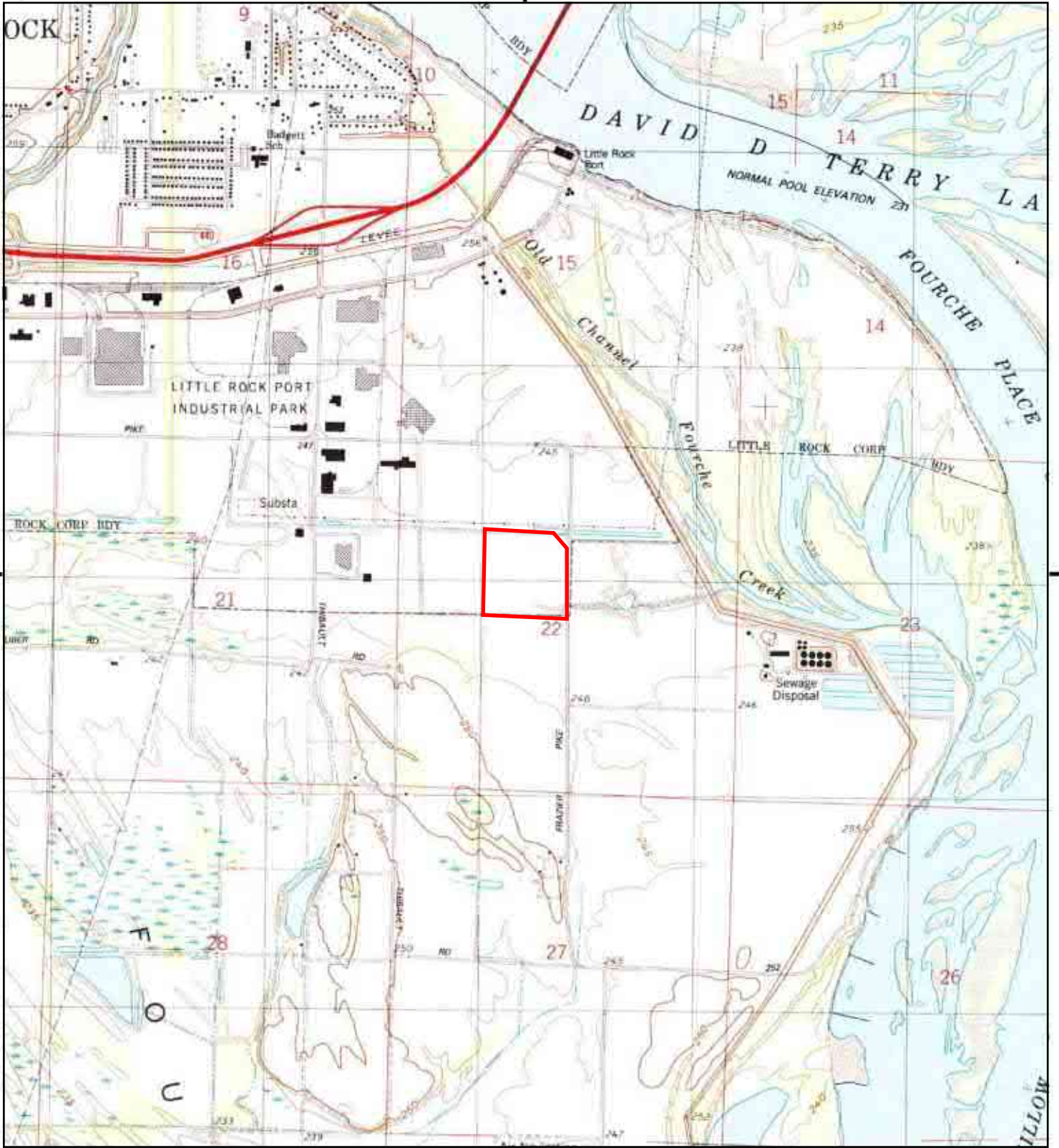
This report includes information from the following map sheet(s).



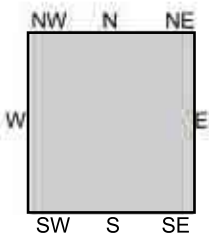
TP, Sweet Home, 1994, 7.5-minute

SITE NAME: Little Rock Port Alta
ADDRESS: 9010 Frazier Pike
 Little Rock, AR 72206
CLIENT: GB Mc and Associates





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



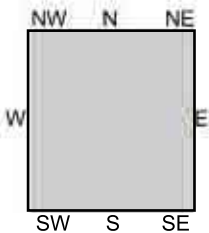
TP, Sweet Home, 1986, 7.5-minute

SITE NAME: Little Rock Port Alta
ADDRESS: 9010 Frazier Pike
 Little Rock, AR 72206
CLIENT: GB Mc and Associates





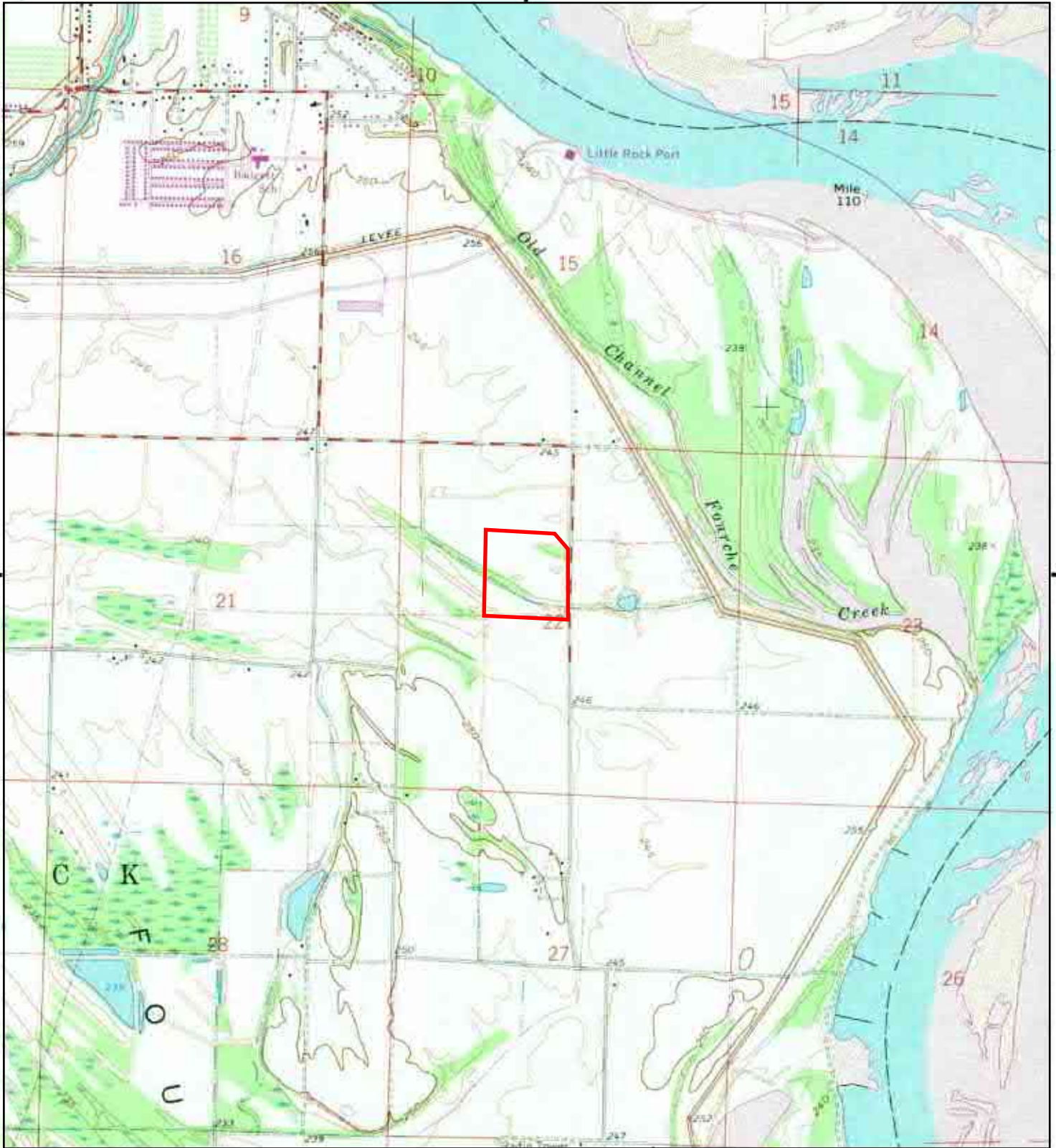
This report includes information from the following map sheet(s).



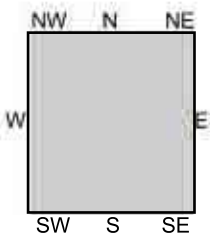
TP, Sweet Home, 1975, 7.5-minute

SITE NAME: Little Rock Port Alta
ADDRESS: 9010 Frazier Pike
Little Rock, AR 72206
CLIENT: GB Mc and Associates





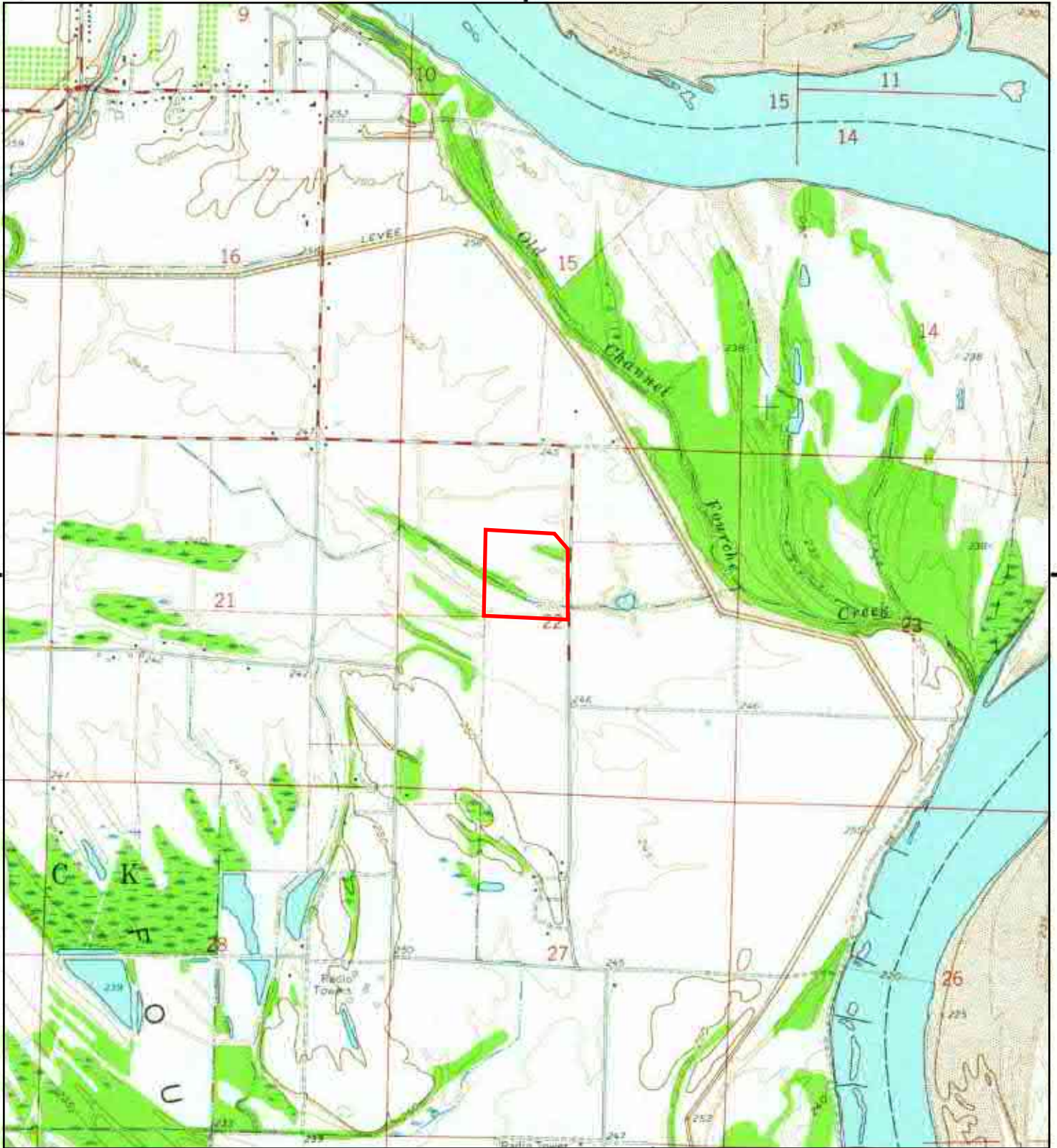
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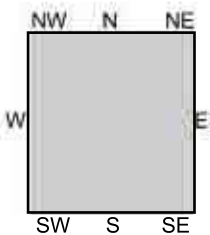
TP, Sweet Home, 1970, 7.5-minute

SITE NAME: Little Rock Port Alta
ADDRESS: 9010 Frazier Pike
Little Rock, AR 72206
CLIENT: GB Mc and Associates





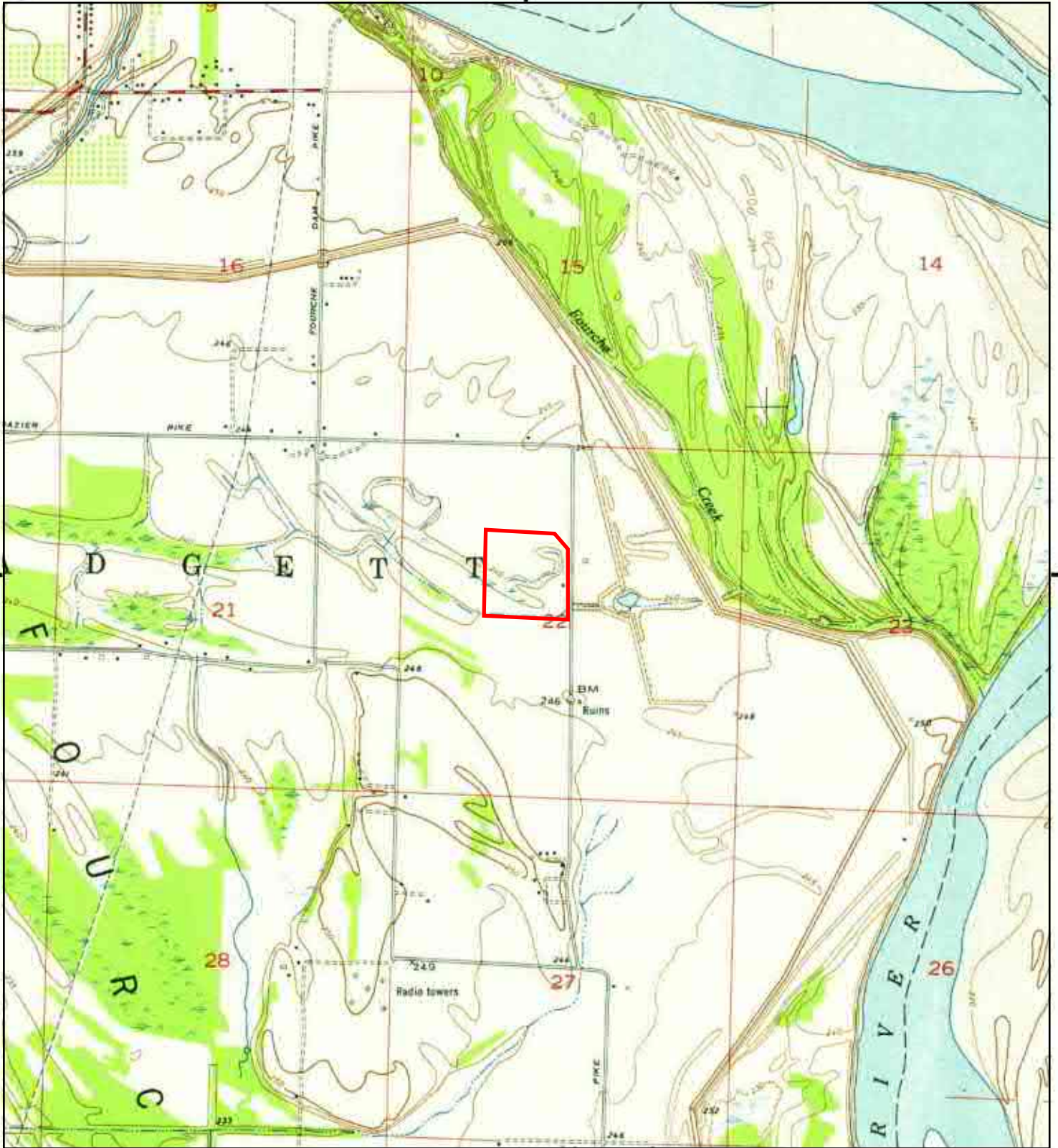
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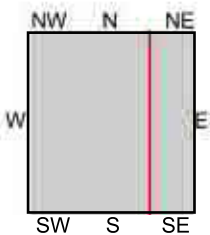
TP, Sweet Home, 1961, 7.5-minute

SITE NAME: Little Rock Port Alta
ADDRESS: 9010 Frazier Pike
Little Rock, AR 72206
CLIENT: GB Mc and Associates





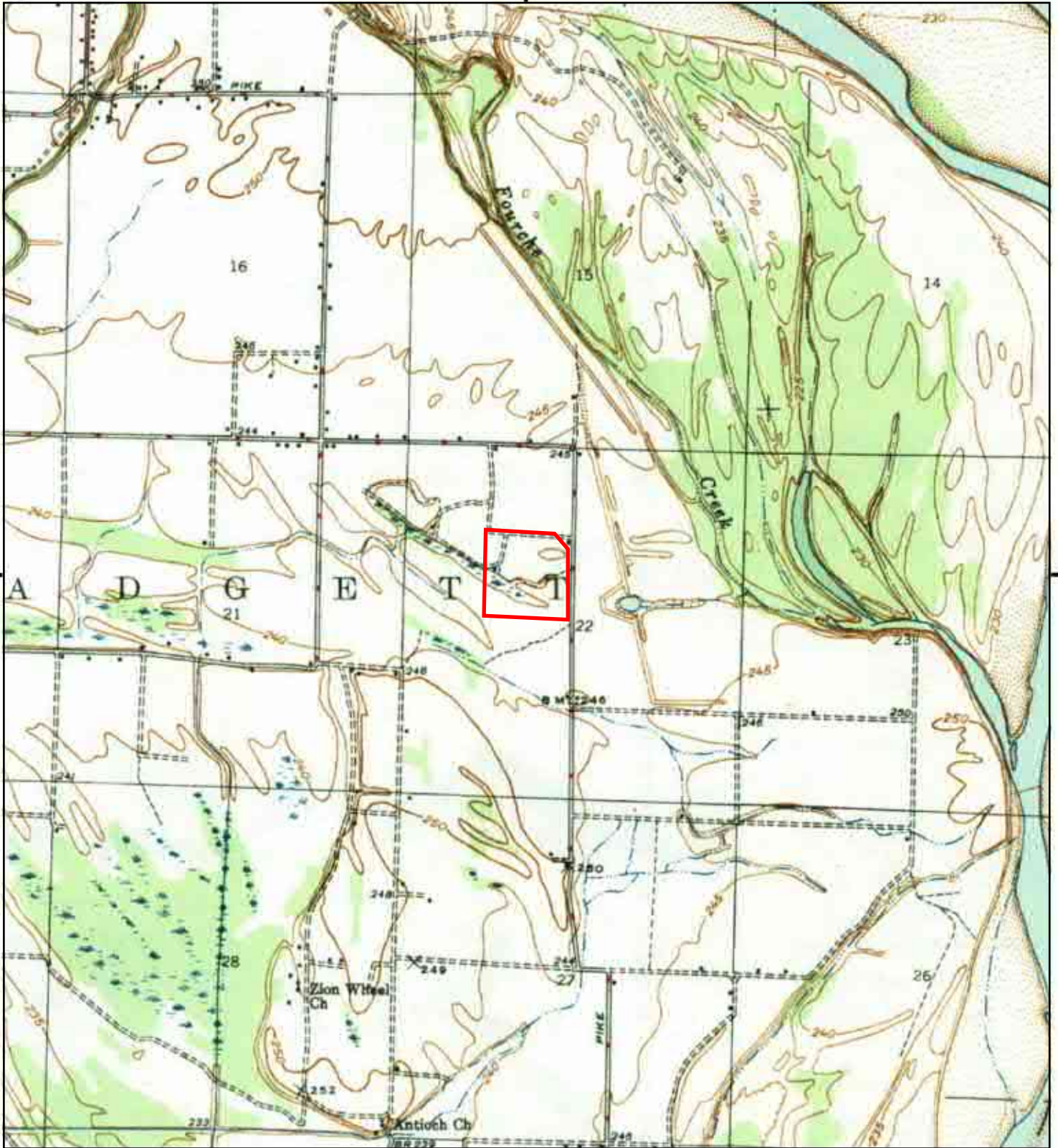
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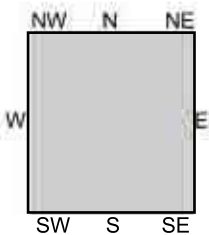
TP, LITTLE ROCK VICINITY, 1954, 7.5-minute
 TP, Sweet Home, 1954, 7.5-minute

SITE NAME: Little Rock Port Alta
ADDRESS: 9010 Frazier Pike
 Little Rock, AR 72206
CLIENT: GB Mc and Associates





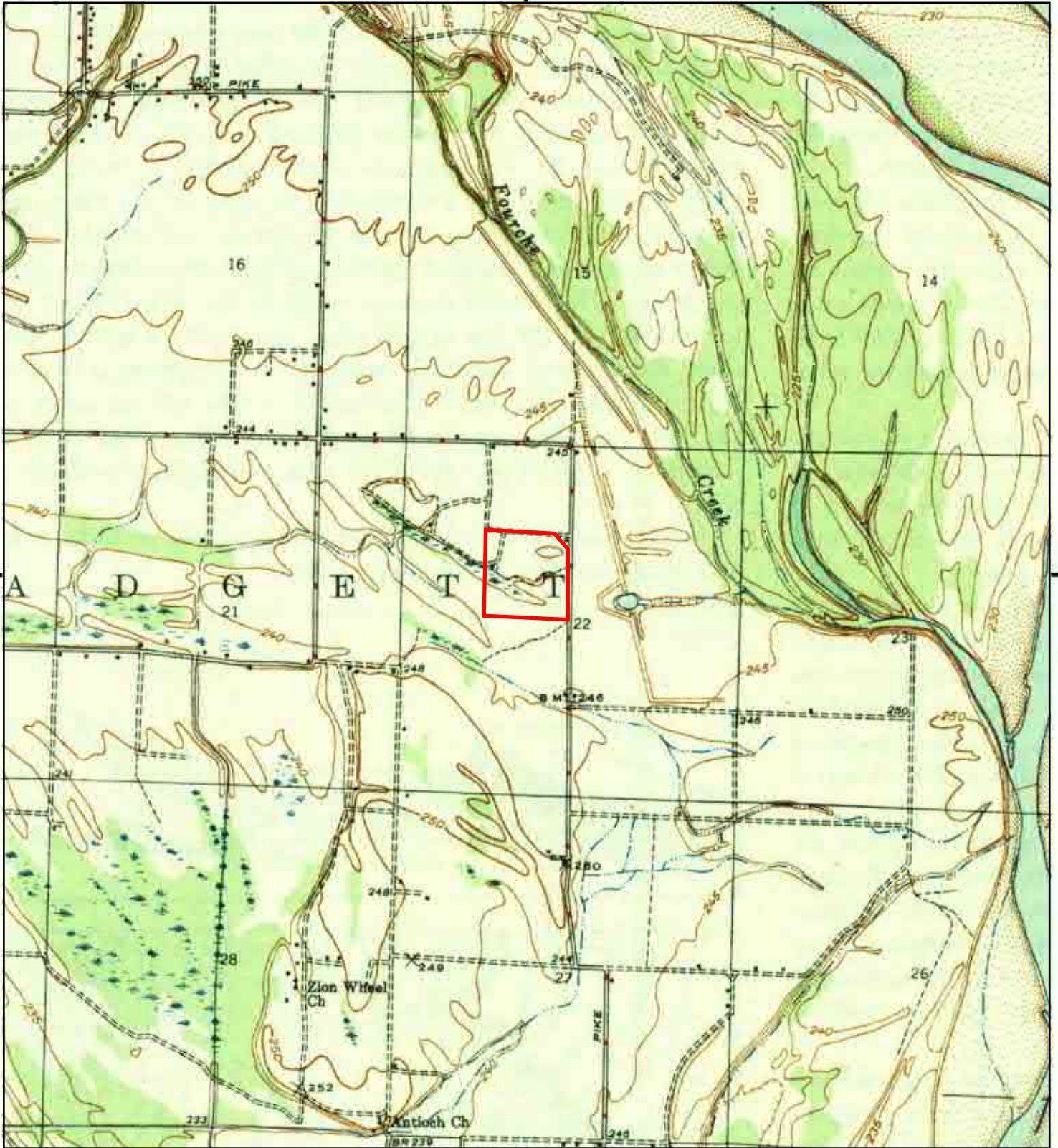
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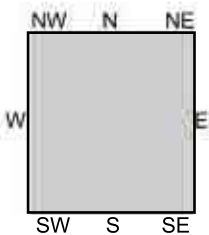
TP, SWEET HOME, 1946, 7.5-minute

SITE NAME: Little Rock Port Alta
ADDRESS: 9010 Frazier Pike
Little Rock, AR 72206
CLIENT: GB Mc and Associates





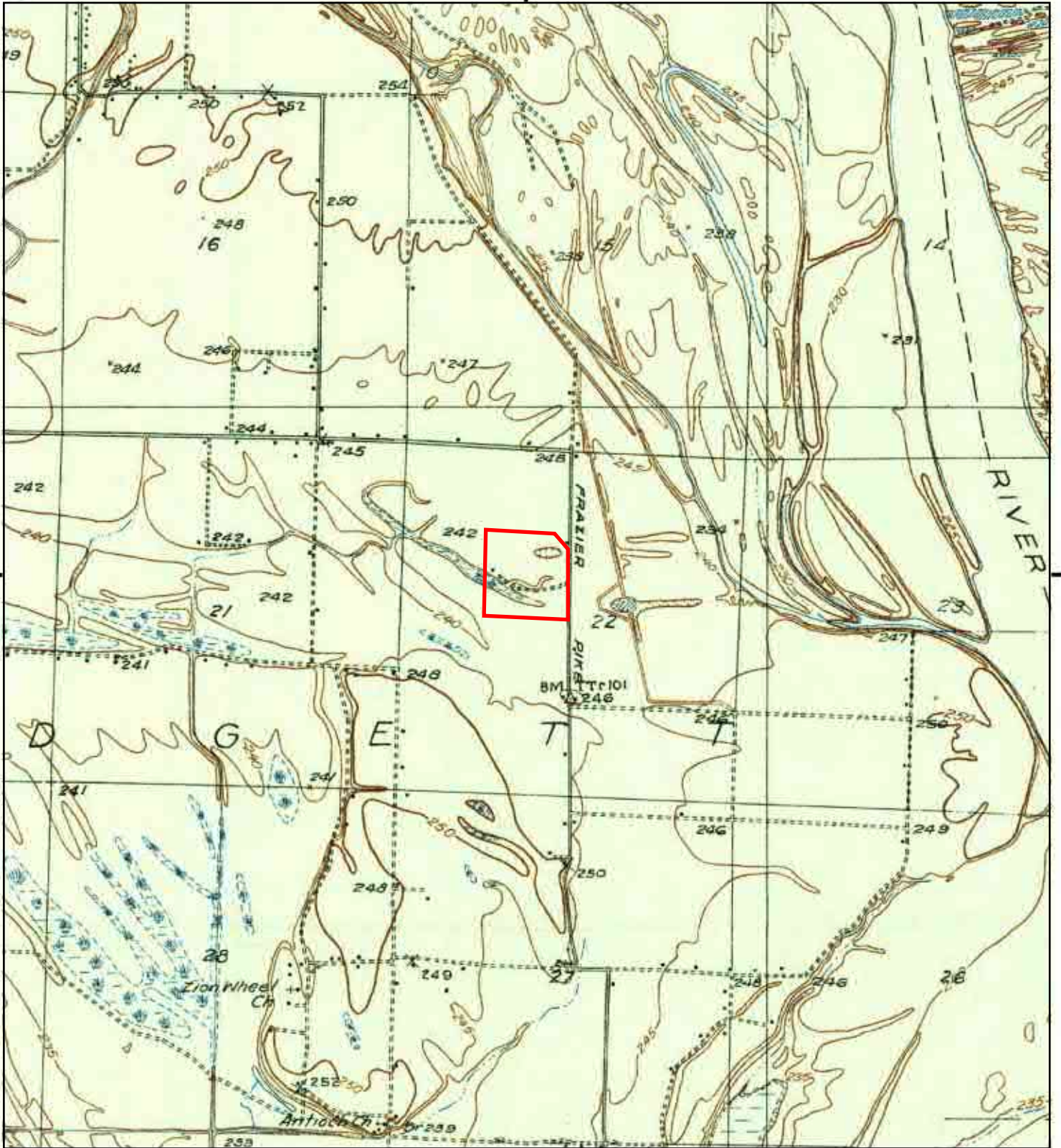
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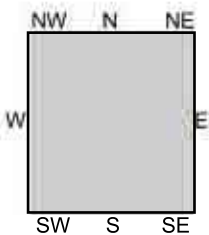
TP, Sweet Home, 1945, 7.5-minute

SITE NAME: Little Rock Port Alta
ADDRESS: 9010 Frazier Pike
Little Rock, AR 72206
CLIENT: GB Mc and Associates





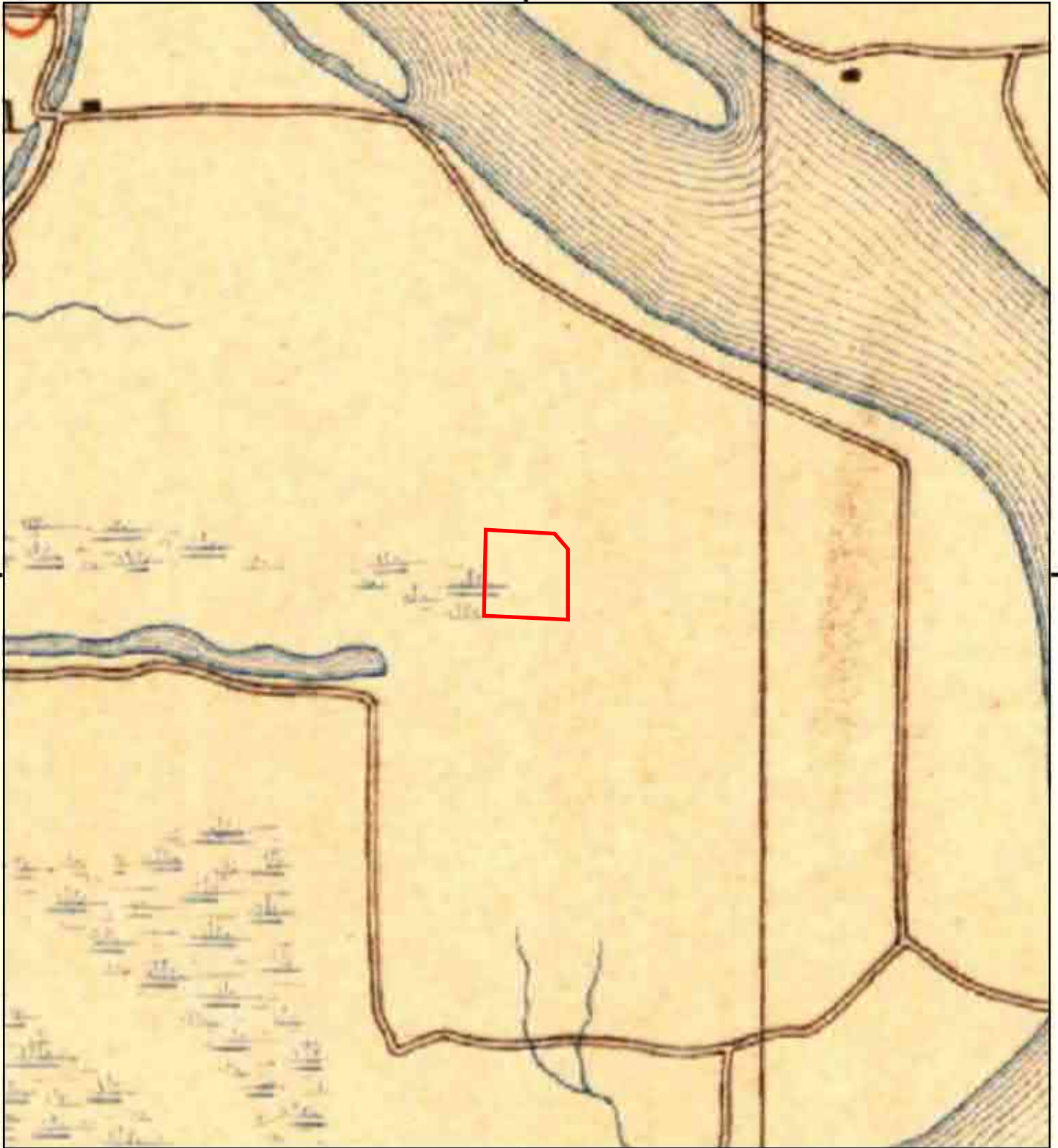
This report includes information from the following map sheet(s).



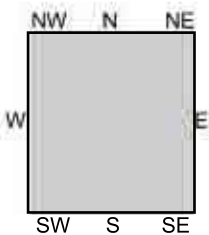
TP, Sweet Home, 1935, 7.5-minute

SITE NAME: Little Rock Port Alta
ADDRESS: 9010 Frazier Pike
 Little Rock, AR 72206
CLIENT: GB Mc and Associates





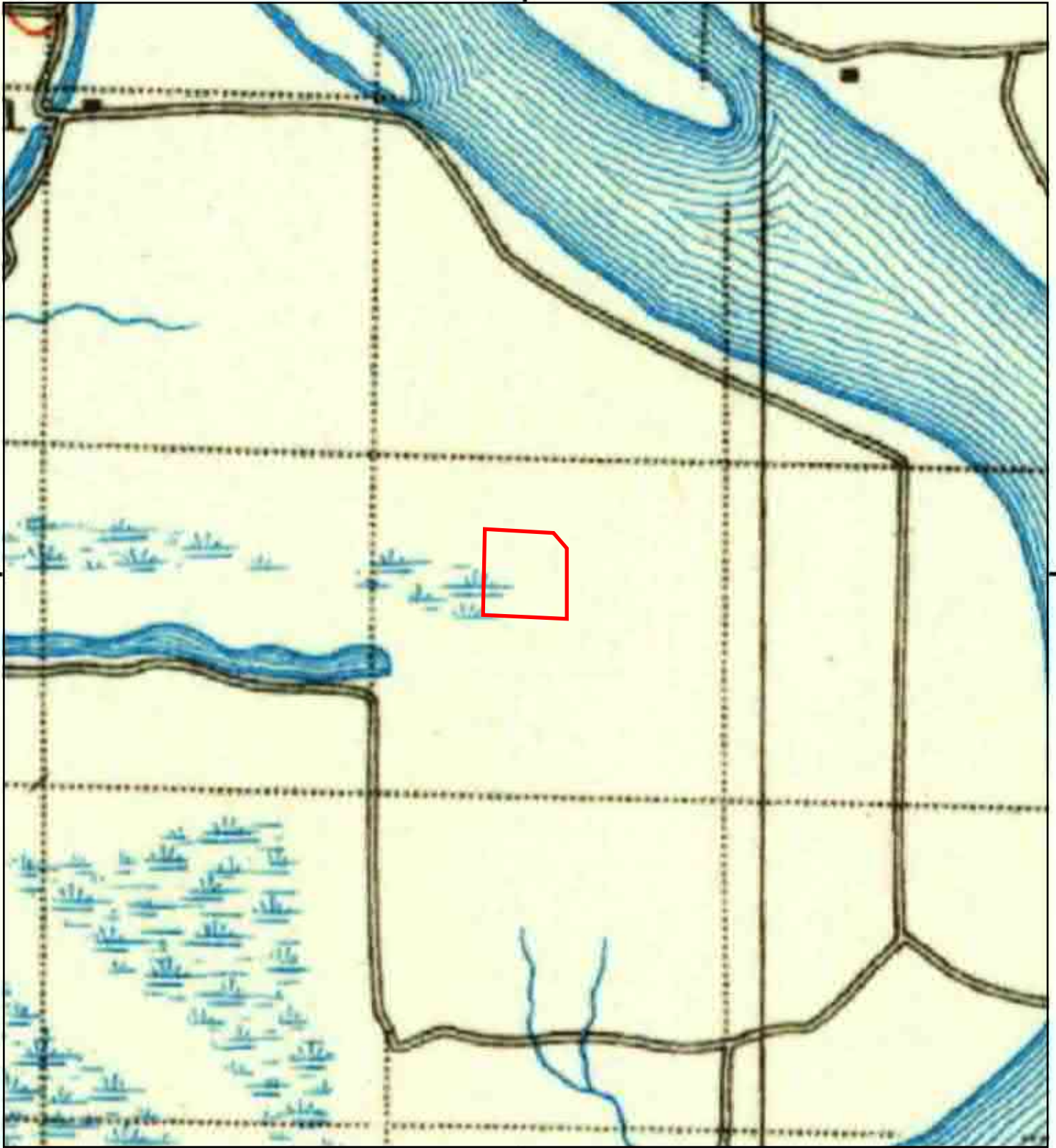
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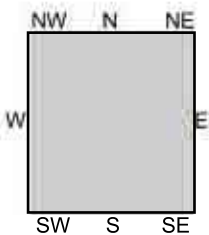
TP, Little Rock, 1893, 30-minute
TP, Camp Pike, 1893, 30-minute

SITE NAME: Little Rock Port Alta
ADDRESS: 9010 Frazier Pike
Little Rock, AR 72206
CLIENT: GB Mc and Associates





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



TP, Little Rock, 1891, 30-minute

SITE NAME: Little Rock Port Alta
ADDRESS: 9010 Frazier Pike
Little Rock, AR 72206
CLIENT: GB Mc and Associates



Appendix G

Historical Aerial Photographs



Little Rock Port Alta

9010 Frazier Pike

Little Rock, AR 72206

Inquiry Number: 5103370.12

November 10, 2017

The EDR Aerial Photo Decade Package



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

Site Name:

Little Rock Port Alta
 9010 Frazier Pike
 Little Rock, AR 72206
 EDR Inquiry # 5103370.12

Client Name:

GB Mc and Associates
 219 Brown Lane
 Bryant, AR 72022
 Contact: Ryan Stoner



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2001	1"=500'	Flight Date: March 25, 2001	USGS
1994	1"=500'	Acquisition Date: March 05, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: March 11, 1989	USGS
1983	1"=500'	Flight Date: February 07, 1983	USGS
1974	1"=500'	Flight Date: November 22, 1974	USDA
1970	1"=500'	Flight Date: March 09, 1970	USGS
1960	1"=500'	Flight Date: April 02, 1960	USGS
1943	1"=500'	Flight Date: December 21, 1943	USGS
1940	1"=500'	Flight Date: July 25, 1940	USDA
1937	1"=500'	Flight Date: May 19, 1937	USDA

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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INQUIRY # 5103370.12

YEAR: 2010

— = 500'





INQUIRY # 5103370.12

YEAR: 2009

— = 500'





INQUIRY # 5103370.12

YEAR: 2006

— = 500'





INQUIRY # 5103370.12

YEAR: 2001

— = 500'





INQUIRY # 5103370.12

YEAR: 1994

— = 500'





INQUIRY #: 5103370.12

YEAR: 1989

— = 500'





INQUIRY #: 5103370.12

YEAR: 1983

— = 500'





INQUIRY # 5103370.12

YEAR: 1974

— = 500'





INQUIRY # 5103370.12

YEAR: 1970

— = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY # 5103370.12

YEAR: 1960

— = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 5103370.12

YEAR: 1943

— = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY # 5103370.12

YEAR: 1940

— = 500'





INQUIRY # 5103370.12

YEAR: 1937

— = 500'



Appendix H

Photographs from Site Visit

Little Rock Port Authority - Phase I ESA Site Visit (11/10/17)



View looking west across subject property.



Drainage ditch at NE property boundary.



Drainage ditch along northern property boundary.



View looking southeast across property from NW corner.



Low lying wetland area near center of property.



View looking east across subject property from SW corner.



Well location near center of property.



Adjacent industrial operations.



Forested area near southeast corner of property.



Adjacent property to the east of subject property.



Religious temple located south of the subject property.

Appendix I

Qualifications of Environmental Professionals

Jonathan Brown - Environmental Scientist

Summary

Mr. Brown is an Environmental Scientist with GBM^c & Associates, Inc. and has 14 years experience in the environmental field. His experience includes project management, environmental compliance and permitting, water quality monitoring and assessment, ecological field studies, aquatic toxicology, environmental site assessments, and laboratory analysis.

Education

2002 BS Microbiology, University of Arkansas

Experience

Soil and Water Quality Monitoring

Mr. Brown has extensive experience with the planning and execution of numerous field studies. He has experience in the use of various types of soil and water quality monitoring and sampling equipment including flow meters, dissolved oxygen meters, conductivity meters, pH meters, temperature meters, various Hach kits, sediments dredges, soil sampling equipment, multi-probe meters and automated samplers. Mr. Brown has collected data from a variety of media including process wastewater, ground water, storm water, surface water, sediments, soils, sludges, fish flesh, and air.

Environmental Compliance/Reporting

Mr. Brown has vast experience in hazardous materials management and reporting. He has prepared SARA Title III reports including Section 311/312 (Tier I/II) inventory reports and Section 313 toxic chemical release reports (Form R) for various types of industrial clients.

Mr. Brown has been responsible for the preparation of numerous individual NPDES permit applications for permit renewal, modification, and construction permits adhering to NPDES guidelines. He has also been involved in the negotiation of permit requirements with regulatory agencies.

Mr. Brown has vast experience with NPDES storm water permitting and compliance issues for both construction and industrial clients. He has performed storm water site assessments, designed storm water controls, and prepared site drainage maps to meet requirements for the NPDES storm water regulations. He has prepared and updated numerous SWPPPs. He is knowledgeable in the field of current Best Management Practices (BMPs) and has completed various training courses on selection, design and proper installation of erosion and sediment controls.

Mr. Brown has prepared numerous Spill Prevention, Control, and Countermeasure Plans for various industrial clients for review and certification as required. In an effort to minimize storm water pollution and prevent spills at the site, analysis of BMPs were included in the plans.

Ecological/Toxicology/Field Studies

Mr. Brown has experience in rapid bioassessments to evaluate the conditions of benthic macroinvertebrate and fish communities in lotic environments. In addition, he has performed numerous habitat evaluations, looking at the potential community development.

Mr. Brown has completed water effects ratio studies (WERs) to develop site specific metals criteria for industrial wastewater dischargers. These studies were conducted to adjust permit limits for dischargers while ensuring adequate protection for aquatic life was preserved.

Environmental Site Assessments

Mr. Brown has completed numerous Phase I and Phase II Environmental Site Assessments according to ASTM Standards for various industrial and commercial clients.

Jonathan Brown - Environmental Scientist (cont)

Microbiology

Mr. Brown has two years experience in a microbiology laboratory. He is proficient in techniques and equipment used for the identification and quantification of microorganisms including bacteria, fungi, and algae. He has performed these analyses from food, air, water, and surface swab samples. He also has experience in food microbiology and has been involved in shelf-life studies for several food products. Mr. Brown has been involved in product development studies related to the effects of biological contaminants on food, veterinary products, and building materials.

Geotechnical

Soils Report: See attachment GT-1 for detail.

Seismic Rating: The site is located in Zone 1 of the historical seismic zone map, which has the least amount of seismic activity.

The United States Geological Survey provides National Seismic Hazard Maps which derived from seismic hazard curves calculated on a grid of sites across the United States that describe the annual frequency of exceeding a set of ground motions. Little Rock Port area is in one of the lower ratings of probability of exceeding peak ground acceleration.

See map behind GT-2 for more detail.



August 20, 2019



10600 Industrial Harbor Road
Little Rock, Arkansas 72206

ATTN: Mr. Bryan Day

RE: Preliminary Geotechnical Investigation
Little Rock Port Area Lots – Lot #1
Little Rock, Arkansas
MCE Project Number: 19-3830A



Dear Mr. Day;

We are submitting herewith the report for the Preliminary Geotechnical Investigation on the above-referenced project. We appreciate the opportunity to provide this service to you. If there are any questions regarding the Preliminary Geotechnical Investigation, please contact us.

Sincerely yours,



A handwritten signature in blue ink, appearing to read "SJA".

Steven J. Head, PE
Principal/Geotechnical Department Head



Enclosure: Preliminary Geotechnical Report

PRELIMINARY GEOTECHNICAL INVESTIGATION

LITTLE ROCK PORT AREA LOTS - LOT #1
Little Rock, Arkansas

MCE PROJECT NUMBER
19-3830A



ATTN: Mr. Bryan Day

Little Rock Port Authority
10600 Industrial Harbor Road
Little Rock, Arkansas 72206

AUGUST, 2019



1810 N. College Ave | PO Box 1229 Fayetteville,
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PRELIMINARY GEOTECHNICAL REPORT

Little Rock Port Area Lots – Lot #1

MCE Project Number: 19-3830A

Little Rock, Arkansas

FOR



Executive Summary

This is a report of the findings of the Preliminary Geotechnical Investigation relevant to the future development of Lot #1 (Parcel Number 24L0230000200) in the port area of Little Rock, Arkansas. This report includes information on surface materials and subsurface conditions in addition to providing preliminary recommendations for site preparation, grading, building foundations, pavement sections, and rock depth and removal.

The following is a summary of significant findings:

- A total of three (3) borings were conducted across the project site.
- Two (2) borings (B-01 and B-03) were conducted to a terminal depth of ten (10) feet below existing surface elevations. Boring B-02 had a planned terminal depth of thirty (30) feet below existing surface elevations. **All project borings achieved their respective terminal depths.**
- The encountered topsoil thicknesses were estimated to range from twelve (12) to fourteen (14) inches below surface elevations across the site.
- Groundwater was encountered by Boring B-02 at an approximate depth of twenty-five (25) feet below existing surface elevation.
- Onsite Stratum II soils should not be utilized as "select fill" material on the project. However, soil classifications may vary based on analysis from bulk samples rather than split-spoon sampling. Any potential select fill material should be verified by laboratory analysis from bulk samples.

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PRELIMINARY GEOTECHNICAL REPORT

Little Rock Port Area Lots – Lot #1

MCE Project Number: 19-3830A

Little Rock, Arkansas

FOR



Introduction

A preliminary geotechnical investigation of subsurface soil conditions was conducted by McClelland Consulting Engineers, Inc. for the future development of three (3) lots in the Port area of Little Rock, Arkansas. The investigation was requested by Mr. Ben France with the Little Rock Chamber of Commerce and authorized by Mr. Bryan Day with the Little Rock Port Authority to investigate subsurface soil conditions at the project site and to prepare preliminary recommendations for site preparation & grading operations, building foundations, pavement sections, and excavation considerations. The purpose of this preliminary investigation is not to produce construction quality recommendations for future development. Rather, the intent of this investigation is to provide preliminary information to aid in the design of foundations, help with planning the anticipated grading operations including estimated quantities, and provide considerations related to the suitability of onsite materials for project use.

Project Description

The project site (Pulaski County GIS Parcel Number: 24L0230000200) is located in the port area of eastern Little Rock, Arkansas and was previously owned by the Entergy Corporation. The project site is approximately 37.7 acres and located west of Frazier Pike near the intersection of Frazier Pike and Bridwood Drive. Maximum grade differentials are estimated to be on the order of five (5) feet across the site with a very slight dip from the south down to the north. Vegetation is anticipated to include grass, weeds, and mature trees to the south. The project site is undeveloped, vacant land, with no structures, and minimal improvements.

Field Investigation

The project was investigated by three (3) total project borings. The project borings had planned terminal depths of 10 and 30 feet below existing surface elevations. Boring B-02 had a planned terminal depth of 30 feet, the remaining two (2) project borings had planned terminal depth of 10 feet, all project borings achieved their terminal depths. The specific locations of the referenced borings are provided in Appendix A on Plate 1.

All borings were conducted using a SIMCO 2400 ATV drill rig utilizing four (4) inch diameter solid stem augers. Soil samples were obtained at the depths indicated on the boring logs by the use of a two (2) inch diameter split-spoon sampler. The split-spoon sampler was driven by blows from a 140-pound manual hammer dropped from a height of 30 inches.

The number of blows required to drive the split-spoon sampler the final 12 inches of an 18-inch drive, or portion thereof, is referred to as the Standard Penetration value, N, and is recorded on the boring logs in units of blows-per-foot. Final drilled depths are shown as the depths achieved by the split-spoon sampler. The field tests performed included visual soil classifications and groundwater observations.

The visual soil classifications are given on the boring logs. The boring logs may be referenced in Appendix B on Plates 2 through 4. Perched groundwater was encountered by one (1) of the boring locations at the time of drilling and prior to backfilling the project borings. Long-term groundwater monitoring was not included as part of our scope of work. Table 1 below shows the surface material thickness, surface elevations, depths achieved, and completion elevations of the conducted project borings.

Table 1: Project Borings – Depths and Elevations

Boring Number	Topsoil Thickness (in)	Boring Elevation	Total Depth Drilled (ft)	End of Boring Elevation (ft)
B-01	14	245.00	11.5	233.5
B-02	14	246.00	31.5	214.5
B-03	12	243.00	11.5	231.5

Notes: Elevations shown in Table 1 are rounded to the nearest foot, and based on free imagery from Google Earth. Topsoil thicknesses are rounded to the nearest inch and generally relate to soil recommended for initial stripping.

Laboratory Testing

Laboratory tests were performed on soil samples recovered from the borings. The laboratory tests were directed at determining the engineering properties of the project soil strata. The laboratory tests were conducted in accordance with the American Society for Testing and Materials (ASTM) designations. The tests performed on samples from the borings included moisture content, dry unit weight, Atterberg Limits, and gradation.

The natural soil moisture content was determined for the selected soil samples to provide a moisture profile for each boring. Unit weight determinations were performed on suitable soil and rock samples and the dry unit weight are given on the boring logs. Atterberg Limits tests (liquid and plastic limits) were performed on selected samples to aid in the soil classification and to help evaluate the volume-change characteristics of each soil stratum.

Gradation analyses were performed on representative soil samples to aid in the soil classification of the selected soil strata. Results of laboratory testing are provided on the boring logs and on the Laboratory Test Results Summary in Appendix C on Plate 8. A key to the terms and symbols used on the boring logs is also presented in Appendix B on Plates 5 through 7. Table 2 on the following page shows the relevant test method designations performed on the project boring samples.

Table 2: Laboratory Test Method Designations

Test Method	Test Designation
Standard Practice for Description and Identification of Soils (Visual)	ASTM D2488
Standard Practice for Classification of Soils for Engineering Purposes (USCS)	ASTM D2487
Standard Test Method for Lab Determination of Water Content of Soil	ASTM D2216
Standard Test Method for Particle-Size Distribution of Soils Using Sieve Analysis	ASTM D6913
Standard Test Method for Liquid Limit, Plastic Limit, and Plasticity Index of Soils	ASTM D4318
Standard Test Method for Lab Determination of Density (Unit Weight) of Soils	ASTM D7263

Site Geology

The project site is located in eastern Pulaski County in central Arkansas. The following soil types exist in the project area according to current USDA soil maps:

- **Rilla-Urban Land Complex (RuA)** – the northern portion of the Lot #1 project area.
- **Keo-Urban Land Complex (Ku)** – the southern portion of the Lot #1 project area.

The Rilla series consists of very deep, well-drained, moderately permeable soils that formed in reddish silty and loamy alluvium. These soils are on nearly level to gently sloping natural levees along the Red River and the present and abandoned channels of the Arkansas River. Slopes range from 0 to 5 percent.

Keo soils are on slopes of 0 to 6 percent; undulating topography consisting of swales and low ridges is common. These soils are in the flood plains of the Arkansas and Red Rivers, possibly in the Mississippi Valley. They formed in loamy alluvial deposits. The previously-referenced soils in the project area have moderate-to-high potentials for corrosion of concrete and steel materials used in construction. An image from the USDA Soil Survey is presented in Figure 1 below.



Figure 1: USDA Soil Survey Report Image. The image was produced by the United States Department of Agriculture. The red outline is the approximate Lot #1 extent.

According to maps and literature published by the United States Geological Survey and the Arkansas Geological Survey, the project site is located in Alluvium Deposits. Alluvium represents the deposits of major stream channels and/or meanders of major streams. In terms of geologic time, the sediments are young and generally date to Holocene time of the Quaternary Period. Typical sediments include gravels, sands, silts, clays, and mixtures of any and all these according to Information Circular 36 produced by the Arkansas Geological Survey. The thickness of these alluvial deposits is known to be quite variable. Imagery and the formation key are presented in Figure 2 below.

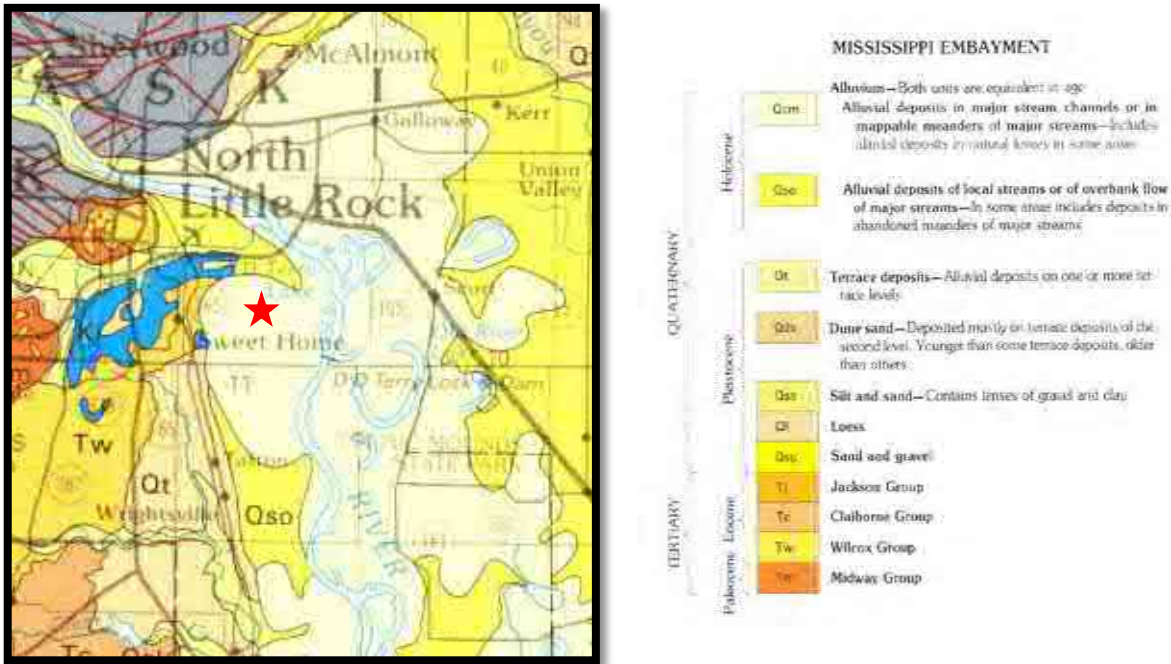


Figure 2: USGS Image and Formation Key.

This information was produced by the Arkansas Geological Survey and the United States Geological Survey. The red star is the approximate project location.

IBC Site Classification

The soil profile at this project site is a Site Class D according to Section 1613.5.2 of the 2006 International Building Code and current Applied Technology Council (ATC) information for the project area. The site seismic classification determination may utilize spectral response accelerations S_{DS} and S_{D1} of 0.407g and 0.238g, respectively, with reference to Section 1613 of the 2015 International Building Code and based on a Risk Category III for the potential site structures.

On-Site Soil Stratum Summary

The subsurface soil conditions at the site are described as below:

Stratum I – Surface Materials

Surface topsoil materials were reported across the site at all boring locations. The encountered surface materials consisted of a mixture of typical silty topsoil materials. The encountered topsoil thickness ranged from 12 to 14 inches across the site. Reported thicknesses are only valid for the actual boring location and thicknesses may vary in unexplored portions of the project area. Based on preliminary findings, an average of twelve (12) inches of topsoil should be anticipated across the property for initial stripping. The referenced topsoil material in this report includes depths of roots and other organics.

Stratum II – Fine-Grained Subgrade Materials

The fine-grained subgrade materials that make up Stratum II include exhibited low to high plasticity characteristics. The fine-grained subgrade materials include Lean Clay (CL), Fat Clay (CH), and Sandy Silt (ML). The Stratum II materials contained varying amounts and gradations of sand and gravel.

The CL materials were encountered as brown to dark brown in color. Consistency values were found to be medium-stiff with corresponding N-Values from 5 to 9 blows per foot. Soil moisture content for the CL materials was found to range from 25.5 to 38.1 percent based on ASTM D2216. The CL soils are considered moisture-sensitive and may lose significant strength upon saturation and/or disturbance.

The CH materials were encountered as brownish-gray in color. Consistency values ranged from very soft to medium-stiff with corresponding N-Values from 2 to 6 blows per foot. Soil moisture content for the CH materials was found to range from 28.7 to 34.5 percent based on ASTM D2216. The CH soils are considered moisture-sensitive and may lose significant strength upon saturation and/or disturbance.

The ML materials were encountered as tannish-brown and tan to reddish-brown in color. Consistency values ranged from very soft to stiff with corresponding N-Values from 2 to 9 blows per foot. Soil moisture content for the ML materials was found to range from 27.9 to 29.4 percent based on ASTM D2216. The ML soils are considered moisture-sensitive and may lose significant strength upon saturation and/or disturbance.

Stratum III – Coarse-Grained Subgrade Materials

The coarse-grained subgrade materials that make up Stratum III include exhibited negligible plasticity characteristics. The coarse-grained subgrade materials consisted of Silty Sand (SM). The Stratum III materials contained varying amounts and gradations of sand and gravel.

The SM materials were encountered as brown in color. The consistency or relative density of the SM materials ranged from very loose to medium-dense with corresponding N-values ranging from 2 to 24 blows per foot. Soil moisture content for the SM materials ranged from 18.9 to 28.1 percent based on ASTM D2216.

Fine-Grained Soil Analyses

The fine fraction of the fine-grained CL materials have low-to-moderate plasticity characteristics and a low potential for volumetric changes due to changes in the soil moisture content. The Liquid Limit (LL) of the CL soils was found to be 32, and the Plasticity Index (PI) ranged from 16 to 21. The fine fraction of the CL material makes up between 87.2 and 97.2 percent of the CL soil mass as indicated by the results of gradation analysis from the borings.

The fine fraction of the fine-grained CH materials have moderate-to-high plasticity characteristics and a high potential for volumetric changes due to changes in the soil moisture content. The LL of the CH soils ranged from 30 to 47, and the PI was found to be 20. The fine fraction of the CH material makes up between 93.6 and 97.3 percent of the CH soil mass as indicated by the results of gradation analyses from the borings.

The fine fraction of the fine-grained ML materials has negligible plasticity characteristics and a negligible potential for volumetric changes due to changes in the soil moisture content. The ML materials were found to be non-plastic (NP). The fine fraction of the ML material makes up approximately 51.5 percent of the ML soil mass as indicated by the results of gradation analyses from the borings.

The fine fraction of the coarse-grained SM materials has negligible plasticity characteristics and a negligible potential for volumetric changes due to changes in the soil moisture content. The SM materials were found to be NP. The fine fraction of the SM material makes up between 14.7 and 37.7 percent of the SM soil mass as indicated by the results of gradation analyses from the borings.

Engineer's Analysis and Recommendations

At the time of preparing this report, the project is understood to be in the preliminary stage. As such, specific information pertaining to site layout, structural loading, grading, and project scope are not available. A Final Investigation would be required to provide recommendations relevant to these items and final project plans/construction documents. It is our anticipation that the future development of the property may be either mixed-use or industrial. This type of development may include both lightly-loaded structures and heavy-loaded structures. Once final construction documents have been produced, a final investigation can provide specific recommendations regarding the planned development. ***The following sections are intended to provide preliminary information pertaining to the encountered subsurface conditions, and should not be considered final recommendations for future development.***

Site Preparation and Grading

The existing surface material was observed to contain grass, roots, and organics in the upper 12 to 14 inches below existing ground elevations. It is our recommendation that the surface topsoil material and vegetation (grass, roots, etc.) be removed full-depth from beneath all building and site improvement/pavement area dimensions. An average stripping depth of 12 inches should be anticipated by the Contractor for initial site grading across the site. Mature trees also exist across the project area. Grubbing operations in mature tree areas may extend two (2) to three (3) feet below existing grade to fully remove stump and root elements from the mature trees.

Additional care should be taken by the Contractor to prevent excessive saturation and exposed Stratum II and/or Stratum III subgrade soils, as these materials may potentially lose significant strength upon saturation. This can be achieved by providing positive drainage during construction and covering with select fill material soon after excavation, where applicable. The onsite subgrade soils will be especially susceptible to reduced shear strengths if construction occurs during historically wet portions of the calendar year.

Excavated slopes during construction should be benched or sloped to provide a minimum two-to-one horizontal-to-vertical (2H:1V) ratio. Construction slopes steeper than recommended may be unstable, particularly when introduced to moisture increases during precipitation events. Temporary shoring measures should be anticipated to stabilize construction slopes that are steeper than 2H:1V.

At the time of preparing this report, finished floor elevations (FFE) and finish pavement elevations had not yet been established for the primary structures or site pavement areas. Therefore, all grading recommendations, foundation recommendations, and other recommendations contained herewith are based on the assumption that final subgrade elevations will generally be within one (1) to two (2) feet of the existing surface elevations across the site.

General Foundation Recommendations

Structure foundations relevant to future development should be sized to meet three (3) conditions. First, the maximum stresses imposed on the foundation strata should not exceed the allowable bearing pressures as determined from the shear strength properties of the bearing strata. Secondly, foundations should be designed to limit the maximum anticipated total and differential settlement to magnitudes that will neither damage nor impair the use of the structures.

Finally, the foundation systems must also be designed to resist the anticipated lateral or overturning forces during the most critical loading conditions, including earthquake loadings. These factors, as well as construction considerations related to the existing soil and ground conditions, were influential in preparation of the information presented hereinafter.

Subgrade Verification

Following stripping and initial grading and prior to fill placement, building pad areas should be proof-rolled with a tandem-axle fully-loaded dump truck weighing approximately 60,000 pounds, or equivalent construction equipment. The proof-rolling should be observed by the Geotechnical Engineer or his/her representative to verify stable subgrade conditions. Any soft and/or yielding subgrade areas encountered should be repaired by undercutting and backfilling with select fill material.

It is highly recommended that proof-rolling occur after topsoil stripping/initial grading and before fill placement. Upon initial observation, it is our opinion that stable subgrades exist at an average depth of approximately four (4) feet beneath the existing surface elevations. Isolated areas may require additional undercutting on the order of twenty-four (24) inches beyond this depth, depending on site conditions at the time of construction. The frequency of these areas and the total depth of required undercut may increase based on site conditions at the time of earthwork operations, particularly if construction occurs during a wet weather pattern. Any soft and/or yielding subgrade areas encountered should be repaired by undercutting and backfilling with select fill material. Select fill material should be placed as described in the **Select Fill Material** section on Page 9 of this report. Thickened lifts of select fill material should not be utilized within structure footprints. As described in the following sections, it is recommended that structures and pavements should occur in fill areas, where possible, to prevent excessive undercutting and subgrade stabilization.

Shallow Foundation Recommendations

If proposed site structures are designed to be lightly-loaded, shallow foundation systems composed of continuous, individual (spread) footings, and or mat foundations may be the most feasible option. Lightly loaded structures include any structure with column loads anticipated not to exceed 100 kips. The shallow foundations should bear in stable subgrade soils. Stable subgrade conditions, in this case, refer to the medium-stiff to stiff Stratum II materials generally encountered between four (4) feet and six (6) feet below existing ground elevations across the site.

Additional undercut and backfill with select fill material may be required in certain areas. If final grading plans reveal that the structure foundations require fill operations in order to reach final subgrade elevations, we recommend exposing stable subgrade material and then place select fill material as required beneath the building pad. Footings can then be excavated in the placed in select fill material. If substantial fills are planned above existing grades (four feet or greater), it is likely feasible that the near-surface silty soils can remain in place and filled above, depending on site conditions at the time of construction.

Deep Foundation Recommendations

If proposed site structures are designed to be heavy loaded structures, they may require a deep foundation system. Heavy loaded structures include any structure with column loads anticipated to be greater than 100 kips. Types of deep foundation systems that may be applicable include drilled piers, driven piles, and rammed-aggregate piers. The following sections provide preliminary information that should be considered during the design of these types of foundation systems. The feasibility of deep foundation systems will be dictated by the final scope, and may not be applicable to the final investigation.

Drilled Piers and Driven Piles

While not encountered by the completion depths of the project borings, rock materials are known to exist at substantial depths beneath the existing surface elevations. For this reason, the design of drilled piers should be based on skin friction values and dense Stratum III sand materials that are known to exist at deeper depths in the project area than were drilled during this preliminary investigation. It is our anticipation that project borings on the order of 60 to 80 feet will be required during the final investigation to provide adequate design factors for these types of deep foundation systems. Final scope and loading information would determine whether deep borings were required to obtain deep foundation recommendations. ***A final investigation should be conducted in order to provide design parameters based on previous information.***

Rammed Aggregate Piers

Another type of deep foundation system that may be applicable includes rammed-aggregate piers (RAPs). The implementation of a RAP system is aimed at improving the subgrade capacity and conditions which will in turn increase bearing capacity of in-situ soils while reducing settlement. These piers are typically constructed by drilling 24 to 30-inch diameter holes to predetermined terminal depths and then backfilling the holes with compacted aggregate. The compaction of the backfill material increases lateral stress in the soil matrix. Rammed-aggregate pier systems are usually designed by the installation contractor. As part of the final investigation, project borings on the order of 50 to 60 feet will likely be required to properly design this type of deep foundation system. Final scope and loading information would determine whether deep borings were required to obtain deep foundation recommendations.

Precise bearing capacity values should be directed by the RAP designer, but a minimum capacity on the order of 5,000 pounds per square foot (psf) can be obtained at the site with an expected settlement range on the order of one (1) inch total long-term and one-half ($\frac{1}{2}$) inch differential after loading. It is likely that a bearing capacity on the order of 6,000 psf can be achieved, but this should be confirmed with the RAP designer once more finalized structure loading information is available. A deep foundation system consisting of rammed-aggregate piers may be more cost-effective than traditional drilled piers or driven piles and should be considered during the final investigation.

Building Slab-on-Grade

Slab-on-grade construction may be utilized where applicable, provided a minimum four (4) inch cushion of sand, crushed stone or gravel is placed below the slab areas with a vapor barrier directly below the concrete.

Depending on the final grading plans, either stable Stratum II/III soils should be exposed beneath the slab dimensions or an appropriate amount of select fill material should be placed to provide stable under-slab conditions, per planned fill operations. The entirety of the slab subgrade area is recommended to be verified during construction by proof-rolling as described below. As with the foundation recommendations, stable subgrade soils should be exposed prior to fill operations, should the final grading in areas require fill placement. A preliminary recommendation of between four (4) and six (6) feet of initial undercut should be anticipated across the site in building pad areas, including the recommended initial stripping depth, based on the information available at the time of this report. As such, we recommend that buildings occur in fill areas where possible. In fill areas, a lightly-loaded structure can likely utilize the integrity of the upper silty soils that act as a sort of crust above unstable soils below. Other projects in the river port area have used this crust material to place fill above. As noted previously, the scope of the project and planned grading will determine the feasibility of this operation.

Site Retaining Structures – Lateral Earth Pressures

At the time of this report, it is not known whether the project scope will include newly-constructed below-grade retaining structures such as basement walls, foundation stem walls, or loading dock walls. However, in the event that below-grade retaining structures are implemented, they should be designed to resist the minimum equivalent fluid weights provided in Table 3 below. The recommended minimum factor of safety against sliding and overturning is 1.5 and 2.0 respectively. The provided lateral earth pressures assume a drained condition for the backfill material.

To achieve a drained condition, potential retaining structures should be backfilled using a free-draining granular material and be provided with thru-wall drains or a gravity trench drain system graded to daylight for the release of any hydrostatic pressure which may develop. The values provided by Table 3 for No. 57 or No. 67 crushed stone gravel assume a 1H:1V maximum backfill slope from the heel of the retaining wall foundation. If a vertical "chimney drain" is provided by the No. 57 or No. 67 stone, then the values for onsite soils should be used based on proximity and relevancy towards the material behind the gravel.

Table 3: Lateral Earth Pressures

Soil/Backfill Type	Moist Unit Weight (lbs/ft ³)	Friction Angle, ϕ (°)	Equivalent Fluid Pressure (lbs/ft ³)		
			Active	Passive	At-Rest
Onsite Soils (Stratum II)	90	15	53	153	67
Onsite Soils (Stratum III)	109	22	50	240	68
Select Fill Material (SC or SM)	115	25	47	283	66
No. 57 or No. 67 Stone	85	35	23	314	37

A coefficient of friction of 0.40 may be used provided the retaining structure is supported on a minimum of four (4) inches of placed and compacted Class 7 Base Course material. A friction value of 0.35 may be used to provide the retaining structures is supported directly on select fill material or onsite soils.

Select Fill Material

Any select fill material required for the project is recommended to be an off-site borrow material of locally-available sandy or silty clay with gravel meeting Unified Soils Classification as an SC, SM, GC or GM material. Alternatively, soil-stabilization methods may be utilized to provide stable subgrade elevations beneath pavement areas and may be implemented in lieu of select fill material. Based on the nature of the project subgrade soils, either cement-stabilization or hydrated lime treatment would be the most feasible methods. This may also be an alternative method to improve onsite materials for use as select fill material if needed on the project. Preliminary recommendations for soil stabilization by means of adding cement or lime should follow the general guidelines described in the following sections but will require further investigation of in-situ conditions in order to provide finalized recommendations that are specific to the site.

Alternatively, if groundwater or saturated soils are encountered during planned excavations, "shot-rock" material from local quarries may be utilized beneath pavement and slab areas in lieu of select fill material as described above, provided that it is capped by a minimum of four (4) inches of Class 7 base course material, or the design pavement section base course material, where applicable.

The high aggregate content of the "shot-rock" or "blast-rock" material would prove beneficial if construction occurs during historically wet portions of the year or during timeframes where shallow subgrade soils are in saturated moisture conditions. If planned for utilization, the specific rock type to be supplied as shot-rock should be communicated to the Geotechnical Engineer.

Additionally, granite fines from local quarries known as "Donna Fill" may be utilized in certain applications as fill material, particularly in undercut areas or in conditions where the fill material must be confined.

Any material to be used as select fill on the project should be reviewed and approved by the Geotechnical Engineer. All fill and backfill should be placed in horizontal lifts. When placing fill next to existing slopes, the slope face should be stripped of all vegetation and the face "benched" to allow placement of horizontal lifts and bonding to the slope face. The compaction requirements for select fill material as well as base course are shown in Table 4 below.

Table 4: Compaction Requirements

Type of Material	Test Specifications	Minimum Dry Density (%)	Optimum Moisture Range (%)
Select Fill	ASTM D698	98	-3% to +3%
Base Course	ASTM D1557	95	Near Optimum

Paved Parking and Driveway Areas

Site grading for proposed paved parking and driveway areas should consist of initial stripping and proof-rolling as previously described. Subgrade preparation and proof-rolling should follow the same procedure as described in the Subgrade Verification section of this report. Isolated areas may require additional undercut in the order of two (2) to three (3) feet after topsoil stripping. The frequency of these areas and the total depth of required undercut may increase based on site conditions at the time of earthwork operations, particularly if construction occurs during a wet weather pattern.

Recommendations regarding undercut should be directed and verified by the Geotechnical Engineer, or his/her representative, based on the results of proof-rolling during construction. The final investigation at the site can also aid in further determining pavement subgrade conditions at strategic locations across the site, based on the site plan at that time.

Select fill material under the parking and driveway areas should be placed per the requirements in Table 4 above. Thickened "bridging" lifts in the order of 18 to 24 inches may be utilized if beneficial beneath pavement areas, particularly to prevent additional or excessive undercutting beyond that as previously described. Thickened lifts should only be implemented at the direction of a Geotechnical Engineer. The top eight (8) inches of any thickened lift should be compacted and tested per project specifications. A minimum of one (1) standard lift should be placed above any thickened lift utilized beneath pavement areas.

It may be advantageous to utilize subgrade stabilization techniques such as cement stabilization and hydrated lime stabilization beneath planned pavement sections as opposed to undercutting to the depths described above. Utilization of subgrade stabilization should follow the preliminary recommendations in the following sections.

Hydrated Lime Stabilization

Where applicable, lime stabilization operations should follow the guidelines of Section 301 of the Standard Specifications for Highway Construction, 2014 edition, by the Arkansas Highway and Transportation Department (AHTD). It is crucial that curing/mellowing procedures be strictly followed.

The improved subgrade material should be compacted to a minimum density of 98% Standard Proctor Value (ASTM D698) within three (3) percent of the optimum moisture content. Based on the encountered project subgrade soils, it is our anticipation that a minimum application rate of 50 pounds per square yard would be required for use during construction. However, the application rate should be verified by the final investigation.

Cement Stabilization

Cement stabilization may be used as an alternative to lime stabilization to achieve similar subgrade stability results. Depending on the location of the subgrade improvements, cement should be added to the top eight (8) to 12 inches of exposed subgrade material after initial stripping and grading. We anticipate an application rate between 50 and 60 pounds per square yard would provide adequate stabilization. Cement stabilization operations should follow the guidelines of Section 307 of the Standard Specifications for Highway Construction, 2014 edition, by AHTD.

The cement-treated subgrade should be compacted to a minimum density of 98% Standard Proctor Value (ASTM D698) within a determined ranged of moisture values. Again, the recommendation for application rate contained within this section should be verified during the final investigation.

Minimum Project Pavement Recommendations

The following pavement recommendations are based on stable subgrade material and/or select fill material existing beneath planned pavement sections. This requirement would be provided by proper placement of approved select fill material, stable onsite material being verified by proof-rolling within planned pavement subgrade dimensions, and/or subgrade stabilization techniques as previously described. Minimum project pavement sections are recommended to be as shown in Table 5 below. These sections will be reevaluated at the time of the final investigation, based on the known project scope at that time. We recommend that areas receiving frequent heavy truck traffic, such as dumpster pads and loading docks, receive heavy-duty concrete pavement.

Table 5: Minimum Recommended Project Pavement Sections

		Standard Duty	Heavy Duty
Concrete Pavement	Portland Cement Concrete	4"	6"
	Class 7 Base Course (95% MPD)	6"	8"
	Stable Subgrade or Compacted Select Fill (98% SPD)	As Required	As Required
Asphalt Pavement	ACHM Surface Course (1/2")	2"	2"
	ACHM Binder (1")	N/A	3"
	Class 7 Base Course (95% MPD)	6"	10"
	Stable Subgrade or Compacted Select Fill (98% SPD)	As Required	As Required

Groundwater – Site Dewatering

Groundwater was encountered by one (1) of the project borings. Boring B-02 encountered groundwater at an approximate depth of 25 feet below existing surface elevation. Perched groundwater is common in the project area, particularly above dense or very-stiff subgrade strata or in-situ rock. All boring locations exhibited similar soil moisture profiles with notable increases in soil moisture content near the competent strata. Water observations were made by the drill crew during drilling operations and at the completion of drilling each boring. The installation and periodic measurement of monitoring wells would be required to establish seasonal piezometric surfaces below this project site.

Planned building foundations should include perimeter drain systems, but it is not anticipated that the site will require an enveloped waterproofing or dewatering system for any new structures utilizing shallow foundation system and based on the groundwater observations at the time of drilling.

Rock Excavation

Rock material in the project location is known to exist at depths greater than 80 feet below the existing surface elevations. It is our opinion that rock removal techniques will not be required during construction operations.

Quality Control Statement

Quality Control testing of the earthwork operation, concrete, paving, and other phases are recommended to be utilized during construction to assure the Owner and Engineer that the construction complies with the specifications. All trenching and excavations should be conducted in accordance with Arkansas State Law and OSHA guidelines and requirements.

Limitations and Reserved Rights

The recommendations and conclusions made in this report are preliminary and are not anticipated being utilized for final project design or construction. It is strongly recommended that a final Geotechnical Investigation is performed at the time that more definitive project scope is known. In the event that the final project scope and site plan are consistent with those that exist at the time of this preliminary report, we still recommend the opportunity to conduct a final investigation that would be more strategically associated with project features. The final investigation would be aimed at confirming the preliminary findings and recommendations in this report, provided that there are not any significant scope or layout changes. A more involved final investigation may be required if significant changes occur to the project scope prior to final planning and design.

Appendix A: Boring Layout



MCE McCLELLAND
CONSULTING
DESIGNED TO SERVE ENGINEERS, INC.

Little Rock
Fayetteville
Fort Smith
Tulsa



Project Number

19-3830A



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Little Rock Port Area Lots - Lot #1
Little Rock, Arkansas

PLATE 1

Appendix B: Boring Logs



LOG OF BORING NUMBER B-01

Project Name: Little Rock Port Area Lots - Lot #1
Preliminary Investigation

Project Number: 19-3830

Project Location: Little Rock, Arkansas

Project Client: Little Rock Port Authority

Geotechnical Engineer: Steven J. Head, P.E.

Drill Rig Operator: Rick Bradbury

Drill Rig Make/Model: SIMCO 2400 ATV with Manual Hammer

Drilling Method: Solid Stem Auger / Split-Spoon

Boring Location: See Plate 1

Drilling Date: 7/22/2019

Logged By: Michael Scott

Surface Elevation: 245.0

Auger Refusal Depth: N/A

Planned Depth: 10 Feet

Completion Depth: 11.5 Feet

Groundwater Observation

At Time Of Drilling (ATD): None

Prior to Backfill (PTB): None

Depth (ft)	Elevation (ft)	Sample Number	Symbol	USCS	N-Value	Description of Material	Moisture	Plastic Limit	Liquid Limit	Plasticity Index	% <#200	Lab Test Results	
												N-Values	Moisture Content
0	245	1			9	14" OF SILTY TOPSOIL	21.8						
2	243	2		CL	5	LEAN CLAY (CL): Brown to Dark Brown; Medium-Stiff; Low to Moderate Plasticity; Moist	25.5	21	32	11	97.2		
4	241	3		SM	4	SILTY SAND (SM): Brown; Very Loose to Loose; Non-Plastic; Mostly Fine Sand; Moist	27.9						
6	239												
8	237	4			2	- Very Loose	26.1						
10	235	5			2		28.1			NP	37.7		
						END OF BORING							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

LOG OF BORING NUMBER B-02

Project Name: Little Rock Port Area Lots - Lot#1
Preliminary Investigation

Project Number: 19-3830

Project Location: Little Rock, Arkansas

Project Client: Little Rock Port Authority

Geotechnical Engineer: Steven J. Head, P.E.

Drill Rig Operator: Rick Bradbury

Drill Rig Make/Model: SIMCO 2400 ATV with Manual Hammer

Drilling Method: Solid Stem Auger / Split-Spoon

Boring Location: See Plate 1

Drilling Date: 7/22/2019

Logged By: Michael Scott

Surface Elevation: 246.0

Auger Refusal Depth: N/A

Planned Depth: 30 Feet

Completion Depth: 31.5 Feet

Groundwater Observation

At Time Of Drilling (ATD): 25.0 Feet

Prior to Backfill (PTB): None

Depth (ft)	Elevation (ft)	Sample Number	Symbol	USCS	N-Value	Description of Material	Moisture	Plastic Limit	Liquid Limit	Plasticity Index	% <#200	Lab Test Results	
												N-Values	Moisture Content
0	246	1			6	14" OF SILTY TOPSOIL	30.4						
		2		CL	8	LEAN CLAY (CL): Brown to Dark Brown; Medium-Stiff; Low to Moderate Plasticity; Trace Medium Sand; Little Fine Sand; Moist	22.6	16	32	16	87.2		
5.5	240.5	3			6		27.3						
		4			5		38.1						
		5		CH	2	FAT CLAY (CH): Brownish-Gray; Very Soft to Soft; Moderate to High Plasticity; Moist to Wet	34.5	20	50	30	97.3		
11	235	6			4	- Soft to Medium-Stiff	28.8						
16.5	229.5	7		SM	11	SILTY SAND (SM): Brown; Medium-Dense; Non-Plastic; Mostly Fine Sand; Moist	25.5						
22	224	8			16		22.1						
27.5	218.5	9			24		18.9			NP	14.7		
						END OF BORING							

This information pertains only to this boring and should not be interpreted as being indicative of the site.

LOG OF BORING NUMBER B-03

Project Name: Little Rock Port Area Lots - Lot #1
Preliminary Investigation

Project Number: 19-3830

Project Location: Little Rock, Arkansas

Project Client: Little Rock Port Authority

Geotechnical Engineer: Steven J. Head, P.E.

Drill Rig Operator: Rick Bradbury

Drill Rig Make/Model: SIMCO 2400 ATV with Manual Hammer

Drilling Method: Solid Stem Auger / Split-Spoon

Boring Location: See Plate 1

Drilling Date: 7/22/2019

Logged By: Michael Scott

Surface Elevation: 243.0

Auger Refusal Depth: N/A

Planned Depth: 10 Feet

Completion Depth: 11.5 Feet

Groundwater Observation

At Time Of Drilling (ATD): None



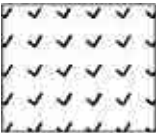
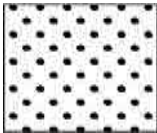
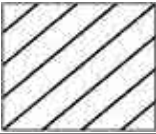


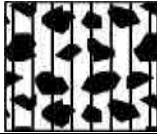

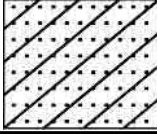
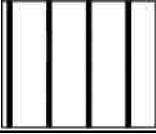
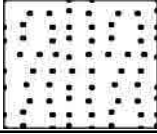
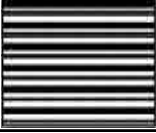
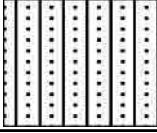

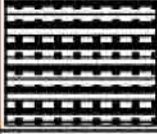
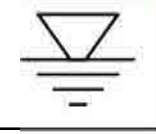
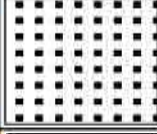

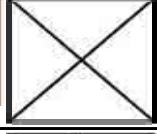


Prior to Backfill (PTB): None

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Depth (ft)	Elevation (ft)	Sample Number	Symbol	USCS	N-Value	Description of Material	Moisture	Plastic Limit	Liquid Limit	Plasticity Index	% <#200	Lab Test Results	
												N-Values	Moisture Content
0	243	1			4	12" OF SILTY TOPSOIL	15.3					10	20
				CH		FAT CLAY (CH): Brown to Dark Brown; Soft to Medium-Stiff; Moderate to High Plasticity; Moist							
2	241	2			6	- Medium-Stiff	29.3					30	40
4	239	3			6		28.7	20	67	47	93.6	40	50
6	237	4		ML	9	SANDY SILT (ML): Brown to Reddish-Brown; Stiff; Non-Plastic; Mostly Fine Sand; Moist to Wet	29.4						
8	235					- Brownish-Gray							
10	233	5			2	- Very Soft to Soft	27.9			NP	51.5		
						END OF BORING							

Symbols and Terms Used on Boring Logs

Symbols Used on Boring Logs

SYMBOL	MATERIAL TYPE	SYMBOL	MATERIAL TYPE
	Asphalt Paving		Concrete Paving
	Topsoil		Coarse Aggregate Base
	Low Plasticity Clay - CL		Clayey Gravels - GC
	High Plasticity Clay - CH		Silty Gravels - GM
	Clayey Silts - ML		Clayey Sands - SC
	Elastic Silts - MH		Poorly Graded Sands - SP
	Weathered Shale		Silty Sands - SM
	Shale		Weathered Sandstone
	Water During Investigation		Sandstone
	Water After Investigation		Bulk Sample
	Standard Penetration Test		Rock Core

Symbols and Terms Used on Boring Logs

ASTM Soil Terminology

Coarse-Grained Soils: More than 50% retained on a #200 (0.075mm) sieve.

Fine-Grained Soils: 50% or more passes a #200 (0.075mm) sieve.

Gravel: Material passing a 3" (75mm) sieve and retained on a #4 (4.75mm) sieve.

Coarse Gravel: Material passing a 3" (75mm) sieve and retained on a 3/4" (19.0mm) sieve.

Fine Gravel: Material passing a 3/4" (19.0mm) sieve and retained on a #4 (4.75mm) sieve.

Sand: Material passing a #4 (4.75mm) sieve and retained on a #200 (0.075mm) sieve.

Coarse Sand: Material passing a #4 (4.75mm) sieve and retained on a #10 (2.00mm) sieve.

Medium Sand: Material passing a #10 (2.00mm) sieve and retained on a #40 (0.457mm) sieve.

Fine Sand: Material passing a #40 (0.475mm) sieve and retained on a #200 (0.075mm) sieve.

Clay: Material passing a #200 (0.075mm) sieve that exhibits plasticity, and strength when dry ($PI \geq 4$).

Silt: Material passing a #200 (0.075mm) sieve that is non-plastic, and little strength when dry ($PI < 4$).

AASHTO Soil Terminology

Boulders & Cobbles: Material retained on a 3" (75mm) sieve.

Gravel: Material passing a 3" (75mm) sieve and retained on a #10 (2.00mm) sieve.

Coarse Sand: Material passing a #10 (2.00mm) sieve and retained on a #40 (0.475mm) sieve.

Fine Sand: Material passing a #40 (0.475mm) sieve and retained on a #200 (0.075mm) sieve.

Silt-Clay: Material passing a #200 (0.075mm) sieve.

Silt Fraction: Material passing a #200 (0.075mm) sieve and larger than 0.002mm.

Clay Fraction: Material smaller than 0.002mm.

Silty: Material passing a #4 (4.75mm) sieve with a $PI \leq 10$.

Clayey: Material passing a #4 (4.75mm) sieve with a $PI \geq 11$.

Coarse Aggregate: Aggregate retained on the #10 (2.00mm) sieve and consisting of hard, durable particles or fragments of stone, gravel or slag.

Fine Aggregate: Aggregate passing the #10 (2.00mm) sieve and consisting of natural or crushed sand, and fine material particles passing the #200 (0.075mm) sieve. The portion passing the #40 (0.425mm) sieves shall have a $LL \leq 25$ and a $PI \leq 6$.

Symbols and Terms Used on Boring Logs

In-Situ Shear Strengths

COARSE-GRAINED SOILS			FINE-GRAINED SOILS		
Penetration (blows/foot)		In-Situ Strengths	Penetration (blows/foot)		In-Situ Strengths
Auto	Manual		Auto	Manual	
0 - 3	0 - 4	Very Loose	< 2	< 2	Very Soft
3 - 8	4 - 10	Loose	2 - 3	2 - 4	Soft
8 - 23	10 - 30	Medium-Dense	3 - 6	4 - 8	Medium-Stiff
23 - 38	30 - 50	Dense	6 - 12	8 - 15	Stiff
> 38	> 50	Very Dense	12 - 23	15 - 30	Very Stiff
			> 23	> 30	Hard

NOTE: Modified based on 80% hammer efficiency (Automatic Hammer).
In-situ strengths are based on Terzaghi, Peck & Meri, 1996.

Material Structure Descriptors

Stratified: Alternating layers of varying material or color with layers at least 1/2" thick.

Laminated: Alternating layers of varying material or color with layers at least 1/4" thick.

Fissured: Breaks along definite planes of fracture with little resistance.

Blocky: Fine-grained soils that can be broken down into small angular lumps which resist further breakdown.

Lensed: Inclusion of small pockets of different soils, such as small amount of sand scattered through a mass of clay.

Descriptor	Meaning
Trace	Less than 5%
Few	5% to 10%
Little	15% to 25%
Some	30% to 45%
Mostly	50% to 100%

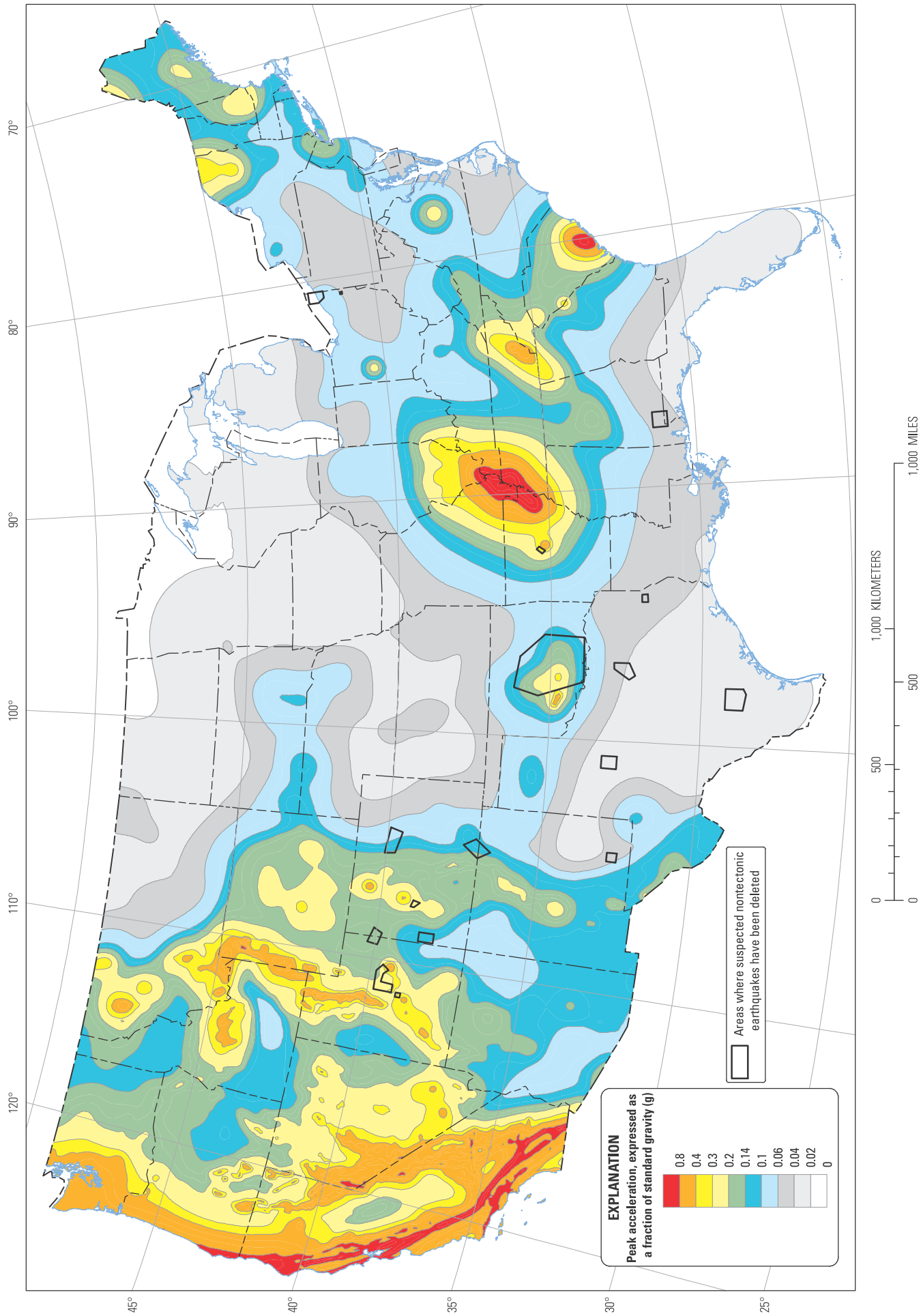
Appendix C: Laboratory Test Results



Project Name: Little Rock Port Area Lots - Lot #1
 Preliminary Investigation
 Project Number: 19-3830
 Project Location: Little Rock, Arkansas
 Client: Little Rock Port Authority

LABORATORY TESTING RESULTS

Boring Number	Sample Number	Description	Depth (ft)	Lab Moisture Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	USCS Classification	AASHTO Classification	SIEVE ANALYSIS % FINER					Unit Dry Weight (pcf)	Compressive Strength (tsf)	
										3/4"	#4	#10	#40	#200			
B-01																	
	1	Dark Brown Silty Topsoil	0'	21.8													
	2	Brown to Dark Brown Lean Clay	2'6"	25.5	32	21	11	CL	A-6(11)		100.0	100.0	99.7		97.2		
	3	Brown Silty Sand	5'	27.9													
	4	Brown Silty Sand	7'6"	26.1													
B-02	5	Brown Silty Sand	10'	28.1			NP	SM	A-4(0)		100.0	100.0	100.0		37.7		
	1	Dark Brown Silty Topsoil	0'	30.4													
	2	Brown to Dark Brown Lean Clay	2'6"	22.6	32	16	16	CL	A-6(13)		100.0	100.0	97.4		87.2		
	3	Brown to Dark Brown Lean Clay	5'	27.3													
	4	Brown to Dark Brown Lean Clay	7'6"	38.1													
	5	Brownish-Gray Fat Clay	10'	34.5	50	20	30	CH	A-7-6(32)		100.0	100.0	98.7		97.3		
	6	Brownish-Gray Fat Clay	15'	28.8													
	7	Brown Silty Sand	20'	25.5													
B-03	8	Brown Silty Sand	25'	22.1													
	9	Brown Silty Sand	30'	18.9			NP	SM	A-2-4(0)		100.0	100.0	99.0		14.7		
	1	Dark Brown Silty Topsoil	0'	15.3													
	2	Brown to Dark Brown Fat Clay	2'6"	29.3													
	3	Brown to Dark Brown Fat Clay	5'	28.7	67	20	47	CH	A-7-6(49)		100.0	99.9	97.0		93.6		
	4	Brown to Reddish-Brown Sandy Silt	7'6"	29.4													
	5	Brownish-Gray Sandy Silt	10'	27.9			NP	ML	A-4(0)		100.0	100.0	100.0		51.5		



Two-percent probability of exceedance in 50 years map of peak ground acceleration

Zoning/Permitting

Copy of Restrictive Covenants: The Port of Little Rock has a Bill of Assurance. See attachment Z-1 for detail.

Current Classification and Proposed Zoning (if different) to Conform with Intended Use: The site is currently in Little Rock and classified as I-3, Heavy Industrial. No zoning changes are required.

Copy of Zoning Ordinance: See attachment Z-2 for detail.

Explanation of Process to Change Zoning: N/A



BILL OF ASSURANCE (as amended)

CITY OF LITTLE ROCK, ARKANSAS

TO THE PUBLIC:

THAT WHEREAS, the City of Little Rock, Arkansas, a municipal corporation organized pursuant to the laws of the state of Arkansas, herein called Grantor, is the sole owner of the following described property located in the state of Arkansas, County of Pulaski, and more particularly described as follows, to-wit:

A parcel of land situated in Sections 9, 10, 15, 16, 17, 20, 21, 22 and 23, Township 1 North, Range 11 West, all lying south of the Arkansas River in Pulaski County, Arkansas, more particularly described as follows:

Commencing at the southwest corner of the SE ¼ said Section 15; thence N01degrees41'50"E along the West line of said SE ¼, Section 15, for a distance of 1,808.12 feet to a point being on the centerline of Old Fourche Creek; thence N38degrees20'50"E approximately 2,356 feet to the Ordinary High Water Mark of the Arkansas River being the Point of Beginning; thence northwesterly along the Ordinary High Water Mark of the Arkansas River to the intersection of the west line of the SE ¼, Section 9; thence southerly along said west line of the SE ¼, Section 9 to the intersection of Old Fourche Creek, being approximately 2,400 feet north of the southwest corner of said SE ¼, Section 9; thence southeasterly along the centerline of Old Fourche Creek to a point which is the intersection of Old Fourche Creek and the south line of Hermitage Home Sites Subdivision extended; thence N89degrees34'51"W along the said south line 137.12 feet to the southeast corner of Lot 99, Hermitage Home Sites Subdivision; thence S11degrees28'14"E, 202.85 feet to a point; thence S36degrees44'33"E, 134.3 feet to a point on the South Right of Way of East Belt Freeway; thence along said south Right of Way the following Bearings and Distances: S59degrees21'26"W, 319.16 feet to a point; thence S66degrees52'W, 426.1 feet to a point; thence N74degrees09'E, 516.6 feet to a point; thence N64degrees50'E, 204.0 feet to a point; thence S58degrees41'W, 366.9 feet to a point, thence S63degrees00'11"W, 3308.0 feet to a point; thence S70degrees25'35"W, 100.5 feet to a point; thence S55degrees35'W, 85.4 feet to a point; thence S08degrees56'W, 144.4 feet to a point on the East Right of Way of Fourche Dam Pike; thence leaving said South Right of Way of East Belt of Freeway N01degrees30'32"E, along said East Right of Way of Fourche Dam Pike 217.2 feet to a point; thence S81degrees06'14"W, 122.12 feet to the intersection of the West Right of Way of East Belt Freeway; thence N89degrees46'32"W, 670.15 feet along said South Right of Way the following Bearings and Distances: thence S84degrees40'W, 202.2 feet to a point; thence S75degrees09'W, 1118.1 feet to a point; thence S89degrees35'W, 421.1 feet to a point; thence N87degrees53'W, 703.2 feet to a point; thence N89degrees43'W, 900.5 feet to a point; thence N87degrees48'47"W, 491.6 feet to a point; thence N87degrees04'32"W, 270.0 more or less to a point on the Centerline of Fourche Bayou; thence, leaving said South Right of Way of East Belt Freeway,

southwesterly along the centerline of Fourche Bayou approximately 900 feet to the intersection of the North Right of Way line of Lindsey Road; thence N87degrees17'02"W along said North Right of Way line approximately 5 feet to a point; thence N87degrees54'02"W, 93.68 feet to a point; thence N75degrees01'45"W, 117.33 feet to a point; thence N71degrees16'09"W, 650.10 feet to a point; thence northwesterly along a curve to the right whose radius is 703.94 feet, a distance of 707.17 feet to a point; thence N13degrees43'08"W, 1091.00 feet to a point; thence northwesterly along a curve to the left whose radius is 1969.86 feet, a distance of 339.32 feet to a point; thence N23degrees35'08"W, 119.50 feet to a point; thence N20degrees43'23"W, 200.25 feet to a point; thence N23degrees35'08"W, 200.00 feet to a point; thence N26degrees17'43"W, 211.54 feet to a point; thence N23degrees35'08"W, 275.00 feet to a point; thence N31degrees50'16"E, 54.15 to a point, said point being the intersection of the East Right of Way line of Lindsey Road and the South Right of Way line of East Roosevelt Road; thence N88degrees03'39"W along the South Right of Way line of East Roosevelt Road 215.00 feet, said point being the intersection of the West Right of Way line of Lindsey Road and the South Right of Way line of East Roosevelt Road; thence S45degrees26'23"E along said west right of way line of Lindsey Road 79.06 feet to a point; thence S23degrees35'08"E, 1055.80 feet to a point; thence southeasterly along a curve to the right whose radius is 1849.86 feet, a distance of 318.64 feet to a point; thence S13degrees43'08"E, 1091.00 feet to a point; thence southeasterly along a curve to the left whose radius is 823.94 feet, a distance of 827.70 feet to a point; thence S71degrees16'09"E, 650.10 feet to a point; thence S68degrees39'23"E, 134.87 feet to a point; thence S81degrees46'54"E approximately 90 feet said point being the intersection of the South Right of Way line of Lindsey Road and the centerline of Fourche Bayou; thence southwesterly along the centerline of Fourche Bayou approximately 2800 feet to the intersection of the centerline of Fourche Bayou and the west line of the NW ¼, NE ¼, Section 20; thence S01degrees16'34"W along the west line of the NW ¼, NE ¼, Section 20, approximately 520 feet to the southwest corner of the NW ¼, NE ¼, Section 20; thence S88degrees48'45"E, 2619.66 feet along the south line of the N ½, NE ¼, Section 20 to the southwest corner of the NW ¼, NW ¼, Section 21; thence S88degrees47'55"E, 5275.91 feet along the south line of the N ½ of the NW ¼ and the N ½ of the NE ¼ of Section 21 to the southwest corner of the NW ¼, NW ¼, Section 22; thence S87degrees48'31"E, 2603.87 feet along the south line of the N ½ of the NW ¼, Section 22 to the southwest corner of the NW ¼, NE ¼, Section 22; thence S87degrees50'37"E, 1647.39 feet along the south line of the N ½, NE ¼, Section 22 to a point on said south line, said point being on centerline Fourche Island Drainage District No. 2 Levee; thence N29degrees14'21"W, 1550.80 feet along the centerline of the Fourche Island Drainage District No. 2 Levee to a point on the north line of Section 22; thence S87degrees54'21"E, 774.2 feet along the north line of Section 22 to a point of intersection between said north line and the centerline of Old Fourche Creek; thence

continue S87degrees54'21"E, along the North line of Section 22 for a distance of 1024.87 feet to the NW Corner of Section 23; thence continue S87degrees54'21"E, along the North Line of Section 23; 1857.24 feet; thence S02degrees05'39"W, 31.0 feet to a point; thence S87degrees54'21"E, 385.0 feet to a point; thence S73degrees24'21"E, 1610.0 feet to a point; thence S86degrees00'E, 300 feet more or less to the Ordinary High Watermark of the Arkansas River, Right Bank; thence Northwesterly along said Ordinary High Watermark, 7500 feet more or less to the Point of Beginning; containing 1558 Acres more or less.

NOW, THEREFORE, WITNESS:

That the City of Little Rock, Arkansas hereinafter termed Grantor has caused said tract of land to be surveyed by Garver and Garver, Inc., registered professional engineers, and a plat thereof made, certified to on July 3, 1971, which plat is identified as Little Rock Port Industrial Park and consisting of the lands hereinabove described, and by the signature of the said engineers and by the signatures of the proper officials of the Grantor and bears the Certificate of Approval executed by the Little Rock Planning Commission and is of record in the office of the Circuit Clerk and Ex-officio records of Pulaski County, Arkansas in Plat Book 27, page, 86, and the Grantors do hereby made this Bill of Assurance.

The Grantor hereby certifies that it has platted said real estate in accordance with said plat. The lands embraced in said plat shall be forever known as designated on said plat and description of said tracts or plots or areas with reference to said plat shall be a valid and complete description thereof for all purposes.

The filing of this Bill of Assurance and plat is recorded in the office of the Circuit Clerk and Ex-officio Recorder of Pulaski County, Arkansas shall be a valid and complete delivery and dedication of streets and easements shown on said plat except such prior easement held by others than the Grantor and except that easement designated on the plat as the Little Rock Port Railroad spur Easement.

The tracts, plots and areas designated in this subdivision shall be sold by the grantor and shall be purchased by the buyers thereof subject to the following covenants and restrictions, to-wit:

(1) TYPE OF BUSINESS ALLOWED

The property in Areas 101, 102, 103, 104, 300, 301, and 302 herein conveyed shall be used only for industrial, manufacturing, warehousing or distribution purposes. It shall not be used for residential purposes, nor for the retail sale of any merchandise or services, except that any occupant of the property, either owner or tenant, may sell at retail those products which are manufactured or handled at wholesale by the occupant. The financing of the sale of such merchandise is expressly permitted, as is the retail sale of food, beverage and other such convenience items to occupant's employees so long as these items are not offered for sale to the general public. The purpose of this restriction is to prohibit the operation on this property of any business devoted primarily to the retail sale of merchandise or to the furnishing of services to the general public.

The property in Areas 201, 202, 203, and 204 is zoned "I" - Light Industrial and may be used for any purpose that qualifies under this zoning classification.

(2) PERMITS REQUIRED

The Grantee agrees that it will use the property conveyed in compliance with all ordinances of the City of Little Rock applicable to the use of property including, but not limited to; building permits, building codes, health codes, subdivision regulations, fire zoning, etc., and in compliance with all laws of the state of Arkansas and the United States of America.

(3) INSURANCE RATES

The Grantee shall not use any of the land or premises for the manufacture, storage, distribution, or sale of any materials or products which shall increase the insurance rates of the adjoining property or for any purposes which constitute a menace in the generally accepted definition of that term.

(4) POLLUTION

No industry or other business shall be established, maintained, or permitted on this property which produces and discharges objectionable effluent, smoke, dust, noise, odor, glare or vibration. Determination of whether the above is objectionable will be made by reference to applicable City, State and Federal laws and regulations.

(5) SETBACK REQUIREMENTS

Buildings erected within the Little Rock Port Industrial Park shall have building lines which shall be a minimum of 75 feet from the right-of-way of Fourche Dam Pike and Frazier Pike, 70 feet from the right of way of all other major streets and 50 feet from the right of way of all minor streets. The building line shall be a minimum of 30 feet from all other property lines except that one-half of any adjacent permanent open space or easement except public road retained by the Grantor for utility or other purposes or dedicated to the public shall be allowed as part of the required 30 foot building line requirements, however, truck docks must be so situated that trucks, tractors, or trailers, or any combination thereof may not, while being either loaded, unloaded or maneuvering, project on to the right-of-way of any street, alley, or open space bordering the property.

(6) SIGNS

Billboard posters and other advertising signs are prohibited except, however, signs which advertise the property owner's business or products may be erected with prior approval of the Grantor. Prior to the erection of such a sign as herein permitted, Grantor may erect a sign on the conveyed property identifying the purchased property as belonging to the Grantee.

(7) OUTSIDE STORAGE

In all areas, except area 300, of the Little Rock Industrial Park, as originally platted or subsequently replatted, no goods, equipment, supplies or other material shall be stored in the open except on the rear three-fourths (3/4) of said property.

(8) PARKING

It shall be the responsibility of the property owner to provide parking space for employees, customers, and visitors, and the public streets shall not be used for parking. The surface of all driveways and permanent parking areas shall be of concrete, asphalt or other bituminous material. It shall be Grantee's responsibility to extend driveways to existing or projected streets at no expense to Grantor, even though part of this construction is within the

street right-of-way. Construction of driveways connecting with existing or later developed streets in such a manner as to interfere with the normal drainage in the street to which the driveway is being connected is prohibited.

(9) LANDSCAPING AND UPKEEP OF PREMISES

Grantee agrees to landscape the portion of the property between the building or buildings and the curb line of any abutting streets, including any such property which may be in a street or utility right-of-way, and to remove undergrowth, weeds, debris, rubbish, trash, excess dirt and any other unsightly material from the remainder of the property at no expense to Grantor. The owner of said property shall keep the premises, buildings, and improvements in a safe, clean, healthful and presentable condition at all times and shall comply in all respects with all government health and police requirements pertaining thereto.

(10) SIZE OF BUILDINGS

No building or other structure shall be constructed or maintained which covers more than fifty percent (50%) of the total land area within the lot on which the structure is located.

(11) UTILITIES

Grantor agrees to provide in the easements or right-of-way adjoining Grantee's property paved street (s), water, power, gas, telephone and sanitary sewer services as approved in the original development plan for the property herein conveyed.

(12) DRAINAGE

Grantor agrees to provide drainage in the easement or streets adjoining Grantee's property.

(13) ENFORCEMENT OF RESTRICTIONS

The Grantor herein, its successors and assigns, or other property owners in the Little Rock Port Industrial Park subject to these covenants, may enforce these restrictions either by restraining order or may prosecute at law or in equity a suit for damages or any other remedy which they may have. Invalidation of any of the foregoing conditions, restrictions or covenants by a court of competent jurisdiction in no way affects any of the other provisions which shall remain in full force and affect.

(14) TERM AND AMENDMENT

(a) The restrictions, conditions, covenants, and provisions set forth herein shall be deemed covenants running with the land and shall remain in full force and effect as herein expressed until December 31, 1996 (the "initial term").

(b) After the initial term, the restrictions, conditions, covenants and provisions set forth in this Bill of Assurance shall automatically renew for successive periods of twenty-five (25) years each (the "renewal terms"), unless an instrument signed by the owners of at least fifty-one percent (51%) of the area of the land in the Little Rock Port Industrial Park (excluding any portions of the Port dedicated to the public) has been recorded which modifies or cancels said restrictions, conditions, covenants and provisions, in whole or in part, and such instrument is approved by the Little Rock Board of Directors.

Sec. 36-321. **I-3 industrial district.**

(a) *Purpose and intent.* The **I-3** heavy industrial district is designed to accommodate industrial uses which involve potentially objectionable uses and hazards, and which, therefor, cannot be reasonably expected to conform to a high level of performance standards, but which are essential to the economic viability of the city. This section applies to such district. It is the expressed purpose of this district on other uses by locating them in areas where the negative influences have least impact. The side and rear yard setbacks will be adjusted to accommodate those tracts of land provided with rail service.

(b) *Development criteria.* Unless otherwise specifically provided for in this section, the following development criteria shall apply to this district:

(1) Every use that is devoted to the collection storage, salvage, or scrapping of automobiles, trucks, buses, or other self-propelled vehicles shall provide on all sides of such operations an eight (8) foot opaque wall or fence. The fence or wall shall be constructed of wood or metal so as to preclude the passage of light or air.

(2) In addition to the screening requirements of (b)(1) of this section, all uses that stack or pile the chassis or bodies of vehicles shall be limited to a maximum stacking height of fifteen (15) feet at any point on the property. This measurement shall be from the uppermost point of the stack to ground elevation on any side.

(c) *Use regulations.*

(1) *Permitted uses.* The permitted uses in the **I-3** heavy industrial district include (except for hotel or motel) those permitted uses found in the I-1 industrial park district or the I-2 light industrial district together with the following:

a. Agricultural products processing.
b. Bulk storage of highly flammable and/or hazardous materials. This use shall be permitted to be located by right on tracts of land larger than five (5) acres in area separated from residential zoned or used property by at least one thousand (1,000) feet, property line to property line, and providing a minimum of two hundred (200) feet of setback for storage facilities from all property lines.

c. Foundry and metalwork.
d. Grain elevator or feed mill.
e. Junk or salvage yard.
f. Railroad freight terminal.
g. Sand, gravel or earth sales and storage.
h. Recycling and reclamation.
i. Recycling facility (MRF) outside.
j. Sanitary landfill.
k. Sawmill.
l. Stable, commercial.

m. Tire retreading or recapping.

(2) *Conditional uses.* Conditional uses are as follows:

a. Bulk storage of highly flammable and/or hazardous materials that does not conform to the standards set forth within subsection (c)(1) of this section.

b. Day nursery or day care center.

c. Day care center, adult.

d. Hotel or motel.

- c. Racetrack.
 - f. Rendering plant.
 - g. Slaughterhouse, open facility.
 - h. Stone, sand or gravel extraction.
 - i. Tannery.
 - j. Water or sewage treatment plant.
 - k. Other industrial uses not expressly provided for in the I-1 or I-2 districts unless otherwise prohibited by other city ordinance.
 - l. Hazardous or medical waste disposal facility.
 - m. Other conditional uses listed in the I-2 district.
- (3) *Accessory uses.* Accessory uses are as follows:
- a. Sleeping quarters for drivers or crew.
 - b. Vehicle maintenance or repair.
- (d) *Height regulations.* No building hereafter erected or structurally altered shall exceed a height of sixty (60) feet.
- (c) *Area regulations.*
- (1) *Front yard.* There shall be a front yard having a depth of not less than fifty (50) feet to the front line of the building.
 - (2) *Side yard.* There shall be a side yard on each side of the building having a width of not less than thirty (30) feet.
 - (3) *Rear yard.* There shall be a rear yard having a depth of not less than twenty-five (25) feet from the lot line to the building.
 - (4) *Lot area regulations.* there shall be a lot area of not less than one (1) acre. In addition, there shall be a lot width of not less than one hundred fifty (150) feet and a lot depth of not less than two hundred fifty (250) feet.
- (Code 1961, Ch. 43, § 7.104.3; Ord. No. 15,247, § 1, 2-17-87; Ord. No. 15,553, § 1p, 9-20-88; Ord. No. 15,832, § 1a, 4-3-90; Ord. No. 15,835, § 1a, c, 4-3-90; Ord. No. 16,116, § 1(oo), 11-19-91; Ord. No. 16,157, § 2, 1-21-92; Ord. No. 16,861, § 1(aa), 3-21-95; Ord. No. 17,305, § 1(i), (j), (cc), 11-7-96; Ord. No. 18,324, § 1(q), 8-1-00)

Utilities

Electric:

Name of Utility: Entergy Arkansas
Contact Person(s): Joe Bailey or Chris Murphy
Address: 425 West Capitol Ave., Suite 2700
City, State, Zip: Little Rock, AR 72201
Phone: 501-377-4089 or 501-377-4467
Fax: 501-377-4448
Email: jbail12@entergy.com or cmurph4@entergy.com
Service and Proximity to Site: 13.8 kV, 3-phase distribution is available at the site (east side) and is fed just 1.3 miles from the Little Rock Port substation. A 161 kV transmission line feeds the substation and follows just north of the site.

Natural Gas:

Name of Utility: CenterPoint
Contact Person(s): Chauncey Taylor
Address: P.O. Box 751
City, State, Zip: Little Rock, AR 72203
Phone: 501-377-4557
Fax: 501-377-4630
Email: Chauncey.taylor@centerpointenergy.com
Service and Proximity to Site: There is a 4-inch gas line adjacent to the site.

Water:

Name of Utility: Central Arkansas Water
Contact Person(s): Jim Ferguson
Address: 221 East Capitol
City, State, Zip: Little Rock, AR 72202
Phone: 501-377-1298
Fax: 501-376-3541
Email: Jim.ferguson@carkw.com
Service and Proximity to Site: There is a 12-inch water line north of the site. There would be a cost of \$70,000 to extend the water main to the northeast corner of the site.



Utilities

Sewer:

Name of Utility: Little Rock Water Reclamation Authority
Contact Person(s): Ms. Jamie Ewing
Address: 11 Clearwater Drive
City, State, Zip: Little Rock, AR 72204
Phone: 501-688-1486
Fax:
Email: Jamie.ewing@lrwra.com
Service and Proximity to Site: Fourche Creek Water Reclamation Facility is less than a mile from the site. There is a sewer main adjacent to the site.

Telecommunications:

Name of Utility: AT&T
Contact Person(s): Melinda Faubel
Address: 1111 W. Capitol, Room 1070
City, State, Zip: Little Rock, AR 72201
Phone: 501-373-3330
Fax:
Email: Melinda.faubel@att.com
Service and Proximity to Site: AT&T network adjacent to the site can be expanded to provide a full range of AT&T Voice and Data products via fiber or copper solutions.

Rail:

Name of Utility: Little Rock Port Authority
Contact Person(s): Bryan Day
Address: 10600 Industrial Harbor Drive
City, State, Zip: Little Rock, AR 72206
Phone: 501-490-1468
Fax:
Email: bday@lrportauthority.com
Service and Proximity to Site: Rail is at the northeast corner of the site. A spur would be required for specific customer needs.



Taxes

Local Sales Tax Rates: City of Little Rock sales tax is 1.5%; Pulaski County sales tax is 1%. Site is currently outside of the city limits.

Property Tax Rates (Real, Personal) and Methods of Assessment: Current tax millage rate in the county is 0.0508 or 50.8 mills. Property tax rate on both real and personal property is \$50.8 per 1,000 value. The assessed value in Arkansas is equal to 20% of appraised value.

If the property value is \$10,000,000, the property tax would be:
 $\$10,000,000 \times .20 \times .0508 = \$101,600.$

Upon annexation to the city, tax millage is 0.07 or 70 mills. Property tax rate on both real and personal property is \$70 per 1,000 value. The assessed value in Arkansas is equal to 20% of appraised value.

If the property value is \$10,000,000, the property tax would be:
 $\$10,000,000 \times .20 \times .07 = \$140,000.$

State Taxation Summary: See Arkansas Economic Development Commission's taxation summary behind tab T-1.





Good company.

as of August 2019

State of Arkansas Taxation Summary

Corporate Income Tax

Taxable income is apportioned according to a single-factor formula (sales attributed to Arkansas during the tax period). Corporate income tax is levied statewide only; not on the local level.

Net Income	Tax Rate
First \$3,000	1%
Next \$3,000	2%
Next \$5,000	3%
Next \$14,000	5%
Next \$75,000	6%
Over \$100,000	6.5%*

*In 2021, the tax percentage for over \$100,000 net income will be 5.9%.

Personal Income Tax

2019 (Personal income tax is levied statewide only; not on the local level)

For Incomes less than \$21,000 per year

Taxable Income	Tax Rate
\$0 - \$4,299	0.0%
\$4,300 - \$8,399	2.0%
\$8,400 - \$ 12,599	3.0%
\$12,600 - \$20,999	3.4%

For incomes between \$21,000 and \$75,000

Taxable Income	Tax Rate
\$0 - \$4,299	0.75%
\$4,300 - \$8,399	2.5%
\$8,400 - \$12,599	3.5%

\$12,600 - \$20,999	4.5%
\$21,000 - \$35,099	5.0%
\$35,100 - \$75,000	6.0%

For incomes more than \$75,000

Taxable Income	Tax Rate
\$0 - \$4,299	0.9%
\$4,300 - \$8,399	2.5%
\$8,400 - \$12,599	3.5%
\$12,600 - \$20,999	4.5%
\$21,000 - \$35,099	6.0%
\$35,100 +	6.9%

Incomes between \$75,000 and \$80,000 shall reduce the amount of income tax due by deducting bracket adjustment as set forth below

Taxable Income	Tax Rate
\$75,001 - \$76,000	\$440
\$76,001 - \$77,000	\$340
\$77,001 - \$78,000	\$240
\$78,001 - \$79,000	\$140
\$79,001 - \$80,000	\$ 40
\$80,001 and above	\$ 0

Federal Insurance Contributions Act (FICA)

The Federal Insurance Contributions Act (FICA) tax includes two separate taxes. One is social security tax and the other is Medicare tax. Different rates apply for each of these taxes.

The current tax rate for social security is 6.2% for the employer and 6.2% for the employee, or 12.4% total. The current rate for Medicare is 1.45% for the employer and 1.45% for the employee, or 2.9% total.

Only the social security tax has a wage base limit. The wage base limit is the maximum wage that is subject to the tax for that year. For earnings in 2019, this base is \$132,900. There is no wage base limit for Medicare tax. All covered wages are subject to Medicare tax.

Additional Medicare Tax are applied to an individual's Medicare wages that exceed a threshold amount based on the taxpayer's filing status. Employers are responsible for withholding the 0.9% Additional Medicare Tax on an individual's wages paid in excess of \$200,000 in a calendar year, without regard to filing status. An employer is required to begin withholding Additional Medicare Tax in the pay period in which it pays wages in excess of \$200,000 to an employee and continue to withhold it each pay period until the end of the calendar year. There is no employer match for Additional Medicare Tax.

Corporate Franchise Tax

The chart below lists the franchise tax rates for various entities under Arkansas Code 26-54-104.

Franchise Tax Type	Current Rate
Corporation/Bank with Stock	0.3% of the outstanding capital stock; \$150 minimum
Corporation/Bank without Stock	\$300
Limited Liability Company	\$150
Insurance Corporation Legal Reserve Mutual, Assets Less Than \$100 million	\$300
Insurance Corporation Legal Reserve Mutual, Assets Greater Than \$100 million	\$400
Insurance Company Outstanding Capital Stock Less Than \$500,000	\$300
Insurance Company Outstanding Capital Stock Greater Than \$500,000	\$400
Mortgage Loan Corporation	0.3% of the outstanding capital stock; \$300 minimum
Mutual Assessment Insurance Corporation	\$300

Sales Tax

The Arkansas sales tax is **6.5%** of the gross receipts from the sales of tangible personal property and certain selected services. "Sale" includes the lease or rental of tangible personal property. In addition to the state sales and use tax, local sales and use taxes may be levied by each city or county. However, businesses may apply to the Arkansas Department of Finance and Administration for a refund of local taxes. "Single transaction" means any sale of tangible personal property or taxable service reflected in a single invoice, receipt or statement for which an aggregate sales or use tax amount has been reported or remitted to the state for a single, local taxing jurisdiction. These taxes are collected by the state and distributed to the cities and counties each month.

Sales Tax Exemptions – Sales Tax Savings

Exemptions from sales and use taxes for manufacturers are as follows:

- Property which becomes a recognizable, integral part of property manufactured, compounded, processed, or assembled for resale.
- Machinery and equipment used directly in manufacturing which are purchased for a new or expanding manufacturing facility or to replace existing machinery or equipment
- Machinery and equipment required by Arkansas law to be purchased for air or water pollution control

The value of this statutory exemption depends on the amount of eligible expenditures as determined by the Arkansas Department of Finance and Administration.

Sales and Use Tax Reduction on Electricity and Natural Gas

The State of Arkansas has a reduced rate of 0.625% on electricity and natural gas used directly in the manufacturing process. For purposes of determining what utility usage is subject to this reduced rate, the manufacturing process includes processes beginning at the point where raw materials are first moved from raw material storage to the beginning of manufacturing or processing of those raw materials into items of tangible personal property and ends when the finished manufactured goods are packaged and ready for shipment or storage.

Sales and Use Tax Refund – Replacement and Repair

Effective July 1, 2014, state sales and use taxes relating to the partial replacement and repair of machinery and equipment used directly in manufacturing process may be refunded. Act 772 of 2019 Sales and Use Tax Refund for Machinery and Equipment used to Modify, Replace, or Repair Molds and Dies Used in Manufacturing. Amended the Arkansas code §26-52-447(a) related to sales tax refund related to the partial replacement and repair of certain machinery and equipment to include machinery and equipment purchased to modify, replace, or repair, either in whole or in part, existing molds and dies used directly in producing, manufacturing, fabricating, assembling, processing, finishing or packaging articles of commerce at a manufacturing or processing facility. Effective date: July 1, 2019. Manufacturers may utilize one of two of the options presented on the next page:

Option One:

- Provides a refund of one percent (1%) of the total sales and use taxes (5.875* percent) levied for the purchase and installation of machinery and equipment to modify, replace or repair, either in whole or part, existing machinery or equipment used directly in the manufacturing process.

Effective Date	Option 1 Percentage
July 1, 2014	1%
July 1, 2018	2%
July 1, 2019	3%
July 1, 2020	4%
July 1, 2021	5%
July 1, 2022	Full exemption of state sales and use taxes

Option Two:

- Provides for an increased refund of the total sales and use taxes (5.875* percent) levied. It is discretionary and may be offered by the Executive Director of AEDC to those manufacturers who have a major maintenance and improvement project totaling at least \$3 million to purchase and install machinery or equipment used directly in the manufacturing process. The project is subject to approval and the Company must enter into a financial incentive agreement with AEDC for the project prior to incurring project expenditures.

*The excise tax of one-eighth of one percent (1/8 of 1%) levied in Arkansas Constitution, Amendment 75, and the temporary excise tax of one-half percent (0.5%) levied in Arkansas Constitution Amendment 91, are not subject to refund under this section.

Unemployment Insurance Tax

New Businesses

A business with no previous employment record in Arkansas is taxed at **3.2%** on the first **\$10,000** of each employee's earnings until an employment record is established, usually within three years.

Existing Arkansas Businesses

2019 Experience-Based Rate range between **0.1% - 14.0%** and average **1.54%**. Each business' employment record is determined primarily by its taxable payroll and history of employee

voluntary termination. The tax is determined by past experience and the amount of the reserve-ratio. The reserve-ratio is the excess of contributions paid over benefits charged as related to payroll. The higher the reserve-ratio, the lower the tax rate. Currently, the maximum weekly benefit in Arkansas is \$451.

Federal Unemployment Tax (FUTA)

Aside from state unemployment insurance taxes, employers pay a federal unemployment or FUTA tax. The FUTA tax rate is 6.0% with a taxable wage base of \$7,000. However, if states operate their unemployment insurance programs in compliance with federal law then the FUTA tax is reduced (credit) by 5.4% to 0.6%.

Property Tax

The State of Arkansas does not have a property tax; however, Arkansas cities and counties do collect a property tax, which is the principal source of revenue for funding local public schools.

The tax is calculated based on 20 percent of the true market value of real and to the usual selling price of personal property (vehicles, boats, etc.) and the average annual value of merchants’ stocks and/or manufacturers’ inventories based on millage rates in individual school districts. Business firms and individuals are subject to annual property tax on all real and personal property.

Local county tax assessors and collectors calculate and collect all personal and real property taxes. Revenue derived from personal property taxes supports your local government agencies. Personal property must be assessed each year before May 31. Any personal property taxes assessed after the deadline will include a monetary penalty determined by the respective county. These taxes are due on or before October 15 of the following year.

Real Property Option (Using Arkansas Average Millage Rate as an Example):

<i>Total Market Value</i>	x	<i>Assessment Level</i>	=	<i>Assessed Value</i>
\$4,000,000	x	20%	=	\$800,000
<i>Assessed Value</i>	x	<i>Millage Rate</i>	=	<i>Annual Property Tax Due</i>
\$800,000	x	.04748	=	\$37,984

Please note: Corporate personal property taxes (equipment, office furniture, etc.) follow a depreciation schedule for each type of property. The schedule below (with exceptions dependent on the area) is issued by each County Assessor's Office in Arkansas.

**COMMERCIAL PERSONAL PROPERTY
Depreciation Schedule**

Remaining Life Percent

Schedule Age	3	5	6	8	10	12	16	20	25	30	Schedule Age
1	.55	.73	.78	.87	.89	.91	.93	.94	.96	.96	1
2	.30	.53	.60	.71	.82	.85	.88	.88	.91	.93	2
3	.10	.39	.48	.59	.75	.79	.84	.85	.87	.89	3
4		.24	.35	.50	.68	.73	.79	.81	.84	.87	4
5		.10	.23	.42	.61	.67	.75	.78	.81	.84	5
6			.10	.33	.53	.61	.70	.74	.79	.82	6
7				.24	.46	.55	.66	.71	.76	.80	7
8				.15	.39	.49	.61	.67	.73	.77	8
9					.32	.43	.57	.64	.70	.75	9
10					.25	.37	.52	.60	.67	.73	10
11						.31	.48	.57	.64	.70	11
12						.25	.43	.53	.62	.68	12
13							.39	.50	.59	.65	13
14							.34	.46	.56	.63	14
15							.30	.43	.53	.61	15
16							.25	.39	.50	.58	16
17								.36	.48	.56	17
18								.32	.45	.53	18
19								.29	.42	.51	19
20								.25	.39	.49	20
21									.36	.46	21
22									.33	.44	22
23									.31	.42	23
24									.28	.39	24
25									.25	.37	25
26										.34	26
27										.32	27
28										.30	28
29										.27	29
30										.25	30

Industrial revenue bond financing is available to a company in Arkansas for land acquisition, building acquisition, construction and equipment. Bonds can be issued as either taxable or tax exempt, depending on certain IRS qualifications and restrictions.

The Arkansas Economic Development Commission Bond Guaranty Program was created to provide long-term, tax exempt and taxable financing for businesses expanding or locating in Arkansas. Although the city or county may issue the revenue bond, the company is still responsible for paying the principal and interest.

Under this program, the Commission can guarantee timely payment of principal and interest, up to \$5,000,000 principal per bond issue, to the bondholders. This guaranty gives the bonds a better rating, thereby making the bond more attractive to investors and reducing the company's cost to borrow money.

An additional benefit of bond financing is:

Cities and counties are authorized to enter into a Payment in Lieu of Tax (PILOT) Agreement with industrial projects resulting in a reduction of property taxes that would otherwise be due. Industrial Revenue Bonds are issued by the city or county on behalf of the project. Under PILOT agreements, title to the property is held in name only by the public issuer for the term of the bond issue. At the end of the bond term, title will transfer to the company. The amount of the payment in lieu of taxes must not be less than 35% of what normal taxes would have been. The PILOT Agreement may not last longer than the term of the bond.

Inventory Tax

All real estate and tangible personal property (inventory) shall be assessed for taxation in the taxing district in which the property is located and kept in use.

If destination of a company's tangible personal property (inventory) is within the state, taxes will be assessed at its prior year's value only in the county/city of its destination.

Freeport Law

If destination of a company's tangible personal property (inventory) is out of state, the following statement applies:

Arkansas' Freeport Law exempts from property tax those finished goods and raw materials in transit or awaiting shipment to out-of-state customers.

Workers' Compensation Rate for the Manufacturing Sector

2018

Type of Rate	Rate per \$100 payroll
Assigned Risk	\$2.04
Advisory Loss Cost	\$1.02

Source: NCCI July 2019 Arkansas Manufacturing Rates

The assigned risk rate is based on the inability for companies to obtain their own insurance, while the loss cost is for companies which are self-insured.

Maps

The following maps are provided behind this tab:

- Regional
- Transportation, Regional
- Transportation, Immediate
- City Boundaries
- Aerial
- Topographic
- Elevation Contours
- FEMA Flood Hazard
- National Wetlands Inventory
- Pipeline Infrastructure
- Electrical Infrastructure
- Local Utilities
- Surrounding Uses
- Zoning



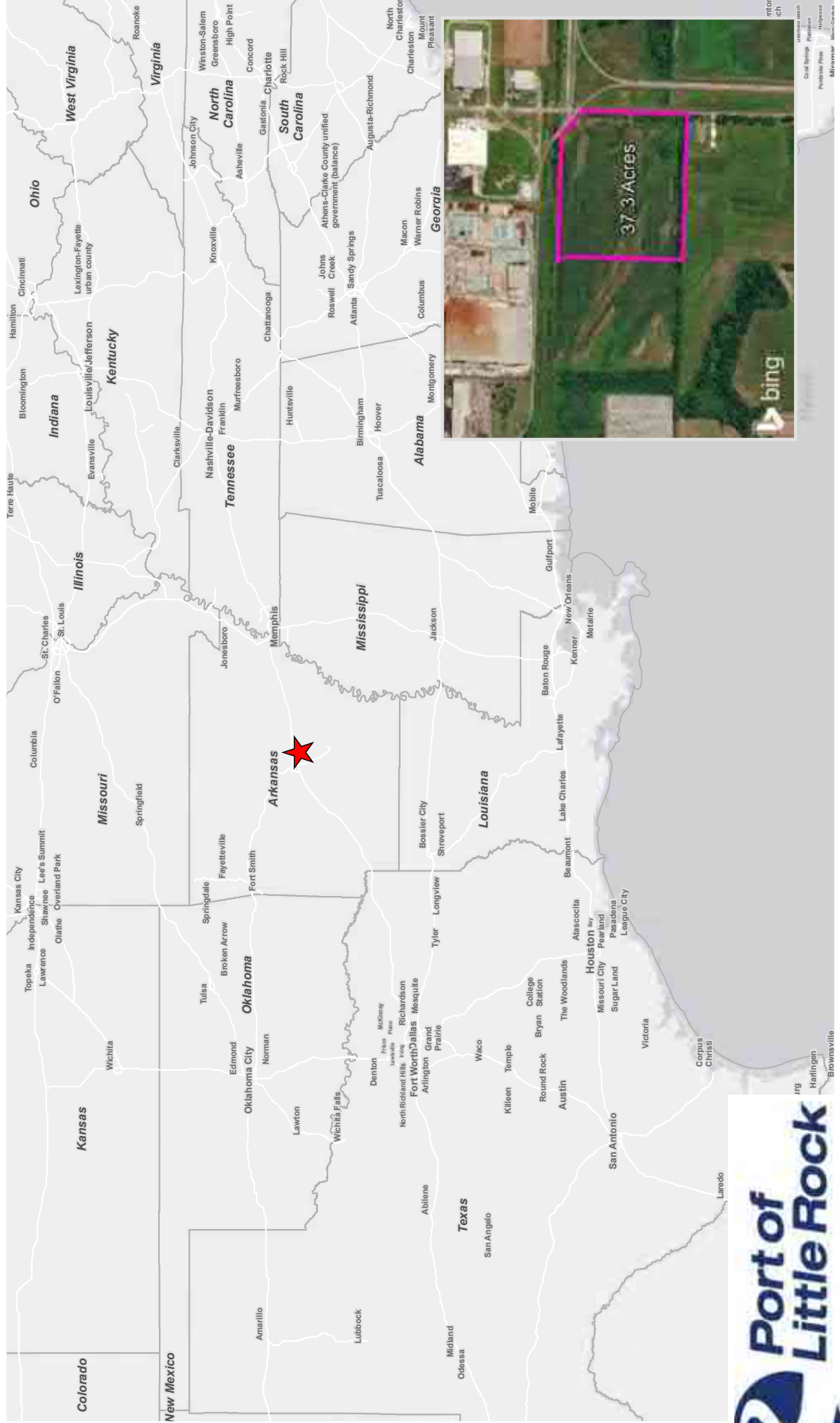


Frazier Pike Site Little Rock, AR

425 West Capitol Ave, Suite 2700
Little Rock, AR 72201

Phone: 1-888-301-5861

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Frazier Pike Site

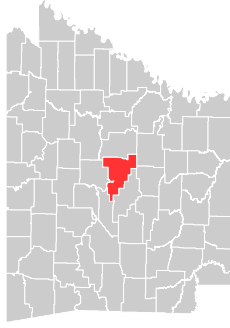
Transportation - Regional

425 West Capitol Ave., Suite 2700
Little Rock, AR 72201

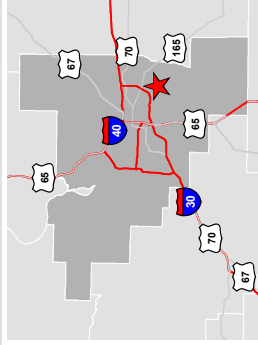
Phone: 1-888-301-5861

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PULASKI COUNTY



VICINITY



LEGEND

- Site
- Commercial & Public Airports
- Ports
- Navigable Waterways
- Rail
- Primary Roads
- Interstate
- U.S. Highway

NOTE

These drawings are provided merely to assist in economic development efforts. The Entergy Companies make no representations or warranties whatsoever regarding the accuracy or completeness of any information contained herein nor the condition or suitability of any properties. Users should direct inquiries about any property to the listing broker for that property.

SOURCE

Sources: Census Tiger, 2010; US Army Corps of Engineers, Port of Memphis, Visual Inspection, Research and Innovative Technology Administration's Bureau of Transportation Statistics (BARTS), 2011; Federal Railroad Administration (FRA), National Geospatial-Intelligence Agency (NGA), and Oak Ridge National Laboratory (ORNL), 2016

Created by: BSS
Date: 9/2017

0 20 40 Miles

0 12.5 25 Kilometers



The Port of Little Rock is a unique intermodal transportation center. It is located approximately seven miles east of downtown Little Rock along the banks of the Arkansas River. The Port is adjacent to I-440 which connects I-30 and I-40. The Port is also less than one mile from the Bill and Hillary Clinton National Airport.





Frazier Pike Site

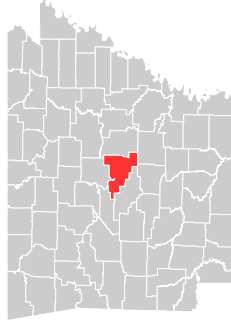
Transportation - Immediate

425 West Capitol Ave., Suite 2700
Little Rock, AR 72201

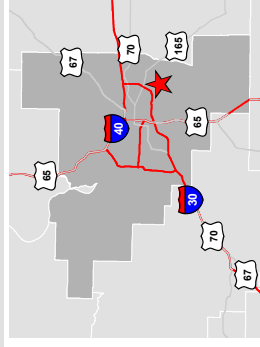
Phone: 1-888-301-5861

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PULASKI COUNTY



VICINITY



LEGEND

- Property Boundary
- Ports
- Commercial & Public Airports
- Rail
- Primary Roads
- Interstate
- U.S. Highway
- Roads

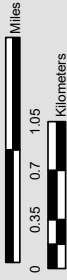
NOTE

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SOURCE

Sources: Census Tract, 2016; US Army Corps of Engineers, Port of Memphis; Visual Inspection, Research and Innovative Technology Administration's Bureau of Transportation Statistics (BIA/RTS), 2011; Federal Railroad Administration (FRA); National Geospatial-Intelligence Agency (NGA); and Oak Ridge National Laboratory (ORNL), 2016

Created by: BSS
Date: 9/2017



The Port of Little Rock is a diverse industrial community. It has everything that a manufacturer would need to succeed in business. Located within the Port are over 30 industrial manufacturers, including 2 full service gas stations, 2 parts stores, numerous trucking companies, a Fire Department, a medical clinic, and a myriad of other businesses and industries. Due to the central location of the Port, it is a great location for companies preferring access to rail, highway, and river modes of transportation.



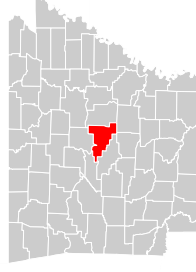


BUSINESS DEVELOPMENT ARKANSAS

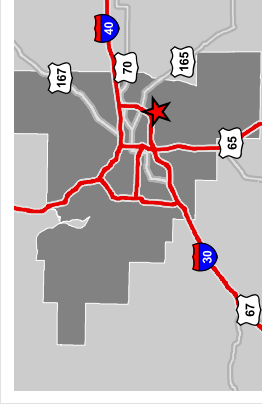
Frazier Pike Site City Boundaries

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Little Rock, AR 72201
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PULASKI COUNTY



VICINITY



LEGEND

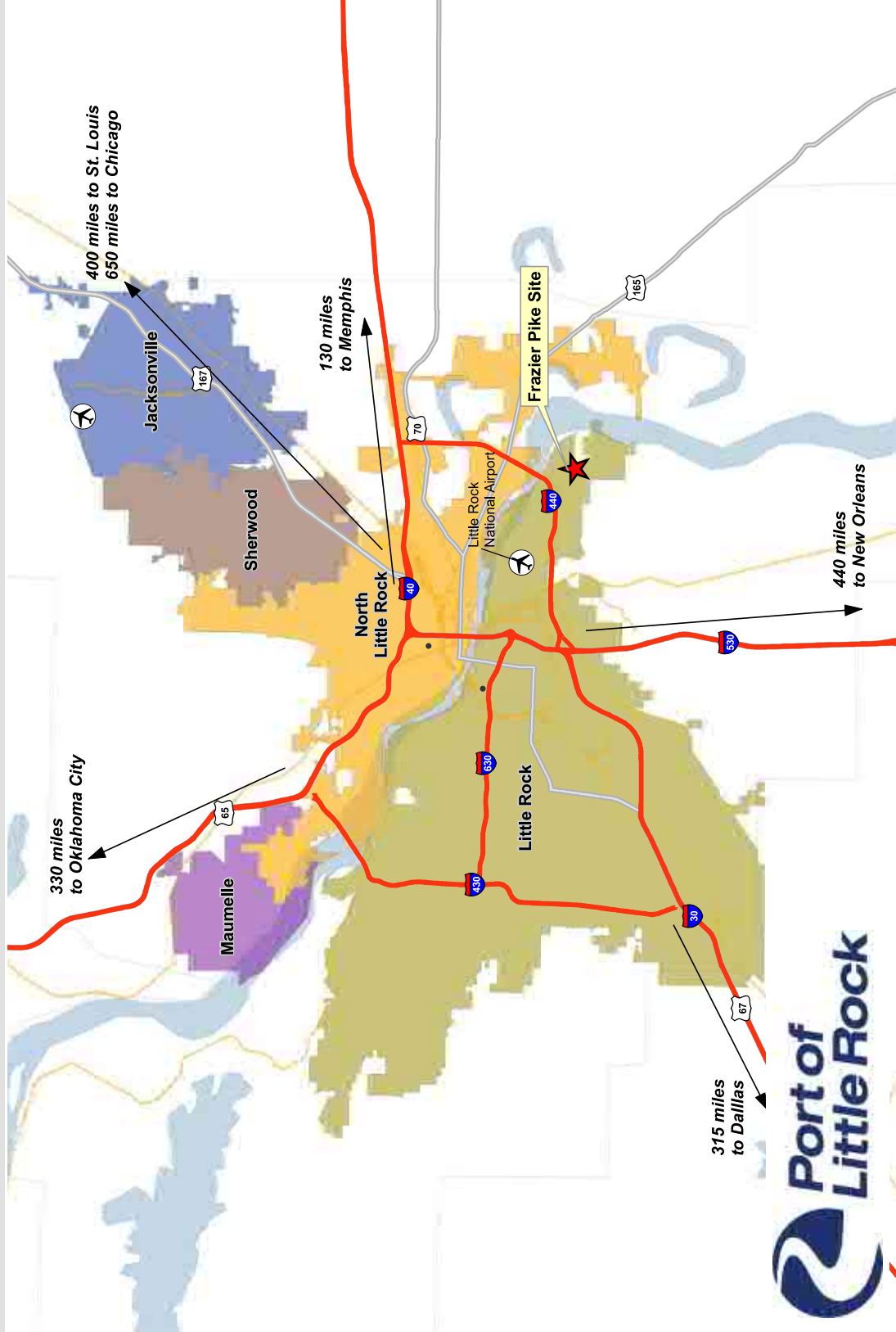
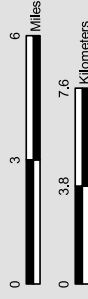
- Airports
- Highways
 - Interstate
 - U.S.
- Site
- Railroads
- City Boundaries
 - Jacksonville
 - Little Rock
 - Maumelle
 - North Little Rock
 - Sherwood

NOTE

These drawings are provided merely to assist in economic development efforts. The Energy Companies make no representations or warranties whatsoever regarding the accuracy or completeness of any information contained herein nor are condition or suitability of any properties. Users should direct inquiries about any property to the listing broker for that property.

SOURCE

Source
-ESRI Basemaps; ESRI Datamaps 10.2; Census Tiger, 2014
Created by: RPG
Date 3/2018





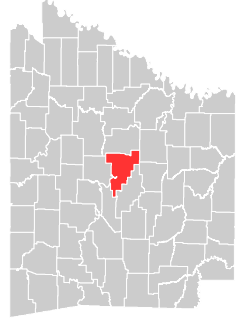
Frazier Pike Site Aerial Site Map

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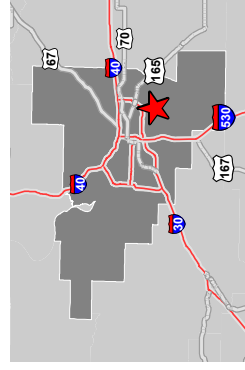


37.3 Acres

PULASKI COUNTY



VICINITY



LEGEND



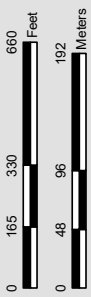
NOTE

These drawings are provided merely to assist in economic development efforts. The Energy Companies make no representations or warranties whatsoever regarding the accuracy or completeness of any information contained herein nor the use of any property. Any property owner's should direct inquiries about any property to the listing broker for that property.

SOURCE

Source: -Aerial Imagery by Bing Maps

Date: 10/2/2019





BUSINESS DEVELOPMENT ARKANSAS

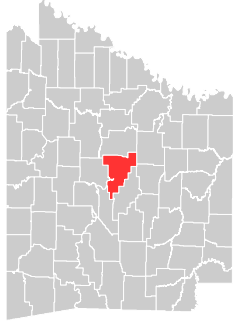
Frazier Pike Site

Topographic Map

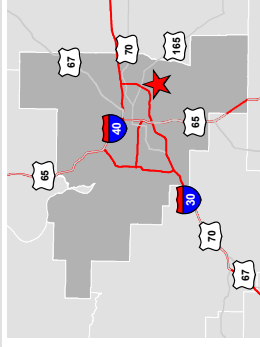
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PULASKI COUNTY



VICINITY



LEGEND

- Property
- Boundary

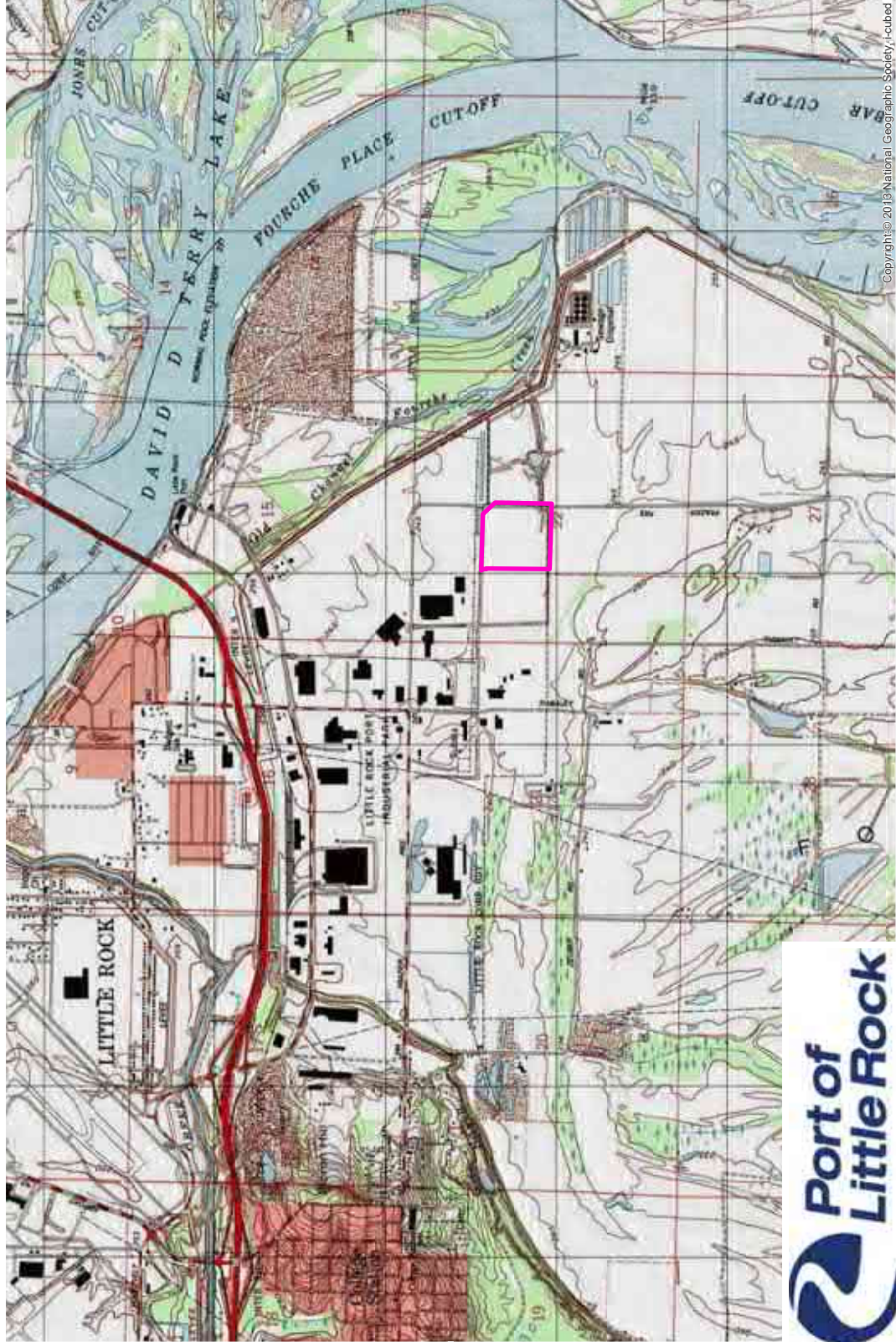
NOTE

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SOURCE

Source: 2013 National Geographic Society, i-cubed

Created by: BSS
Date: 9/2017



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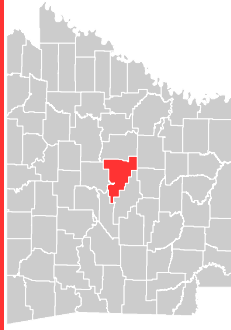




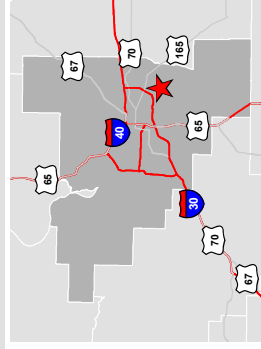
Frazier Pike Site Elevation Contours

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PULASKI COUNTY



VICINITY



LEGEND

- Property Boundary
- Contour (ft)
 - 220
 - 221 - 230
 - 231 - 235
 - 236 - 245
 - 246 - 255

NOTE

These drawings are provided merely to assist in economic development efforts. The Energy Companies make no representations or warranties whatsoever regarding the accuracy or completeness of any information contained herein nor the condition or suitability of any properties. Users should direct inquiries about any property to the listing broker for that property.

SOURCE

Source: Elevation Contours: Derived from DEM, USDA/NRCS

0 500 1,000 Feet
0 120 240 Meters



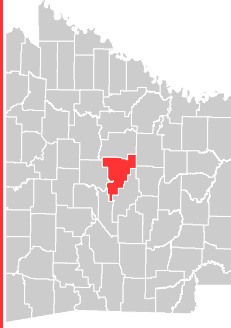


Frazier Pike Site

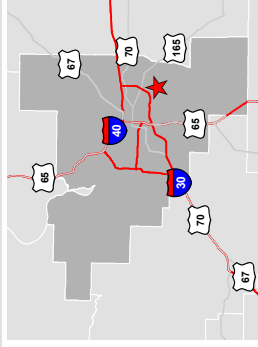
FEMA Flood Hazard

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PULASKI COUNTY



VICINITY



LEGEND

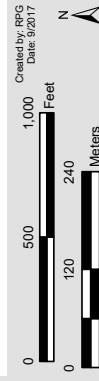
- Property Boundary
- Flood Zone, Zone Subtype**
- AE
- X-AREA OF MINIMAL FLOOD HAZARD
- X-AREA WITH REDUCED FLOOD RISK DUE TO LEVEE
- Base Flood Elevation

NOTE

These drawings are provided merely to assist in economic development efforts. The Energy Companies make no representations or warranties whatsoever regarding the accuracy or completeness of any information contained herein nor the condition or suitability of any properties. Users should direct inquiries about any property to the listing broker for that property.

SOURCE

Source: Federal Emergency Management Agency, 10/19/2016



Frazier Pike Site is located in Zone X, protected by levee. Zone X, protected by levee, is the area with reduced flood risk due to levee. The Site is shown as being protected from the 1-percent-annual-chance or greater flood hazard by a levee system.





Frazier Pike Site

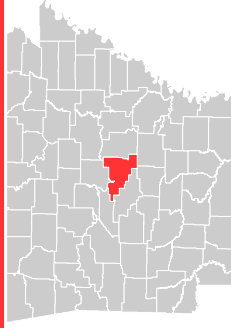
National Wetland Inventory

425 West Capitol Ave., Suite 2700
Little Rock, AR 72201

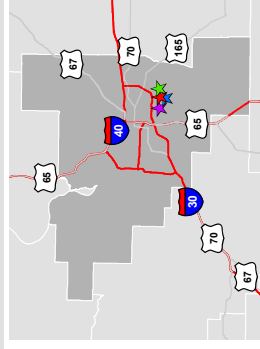
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PULASKI COUNTY



VICINITY



LEGEND

- Property Boundary
- WETLANDS**
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake

NOTE

These drawings are provided merely to assist in economic development efforts. The Energy Companies make no representations or warranties whatsoever regarding the accuracy or completeness of any information contained herein nor the condition or suitability of any properties. Users should direct inquiries about any property to the listing broker for that property.

SOURCE

Source: U.S. Fish & Wildlife Service, National Wetland Inventory, 2016

0 500 1,000 Feet
0 240 Meters



The National Wetlands Inventory Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type, and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.



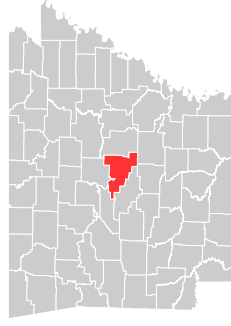


Frazier Pike Site

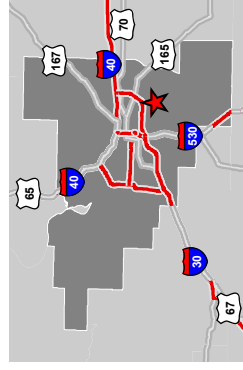
Transmission Pipeline Infrastructure

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PULASKI COUNTY



VICINITY



LEGEND

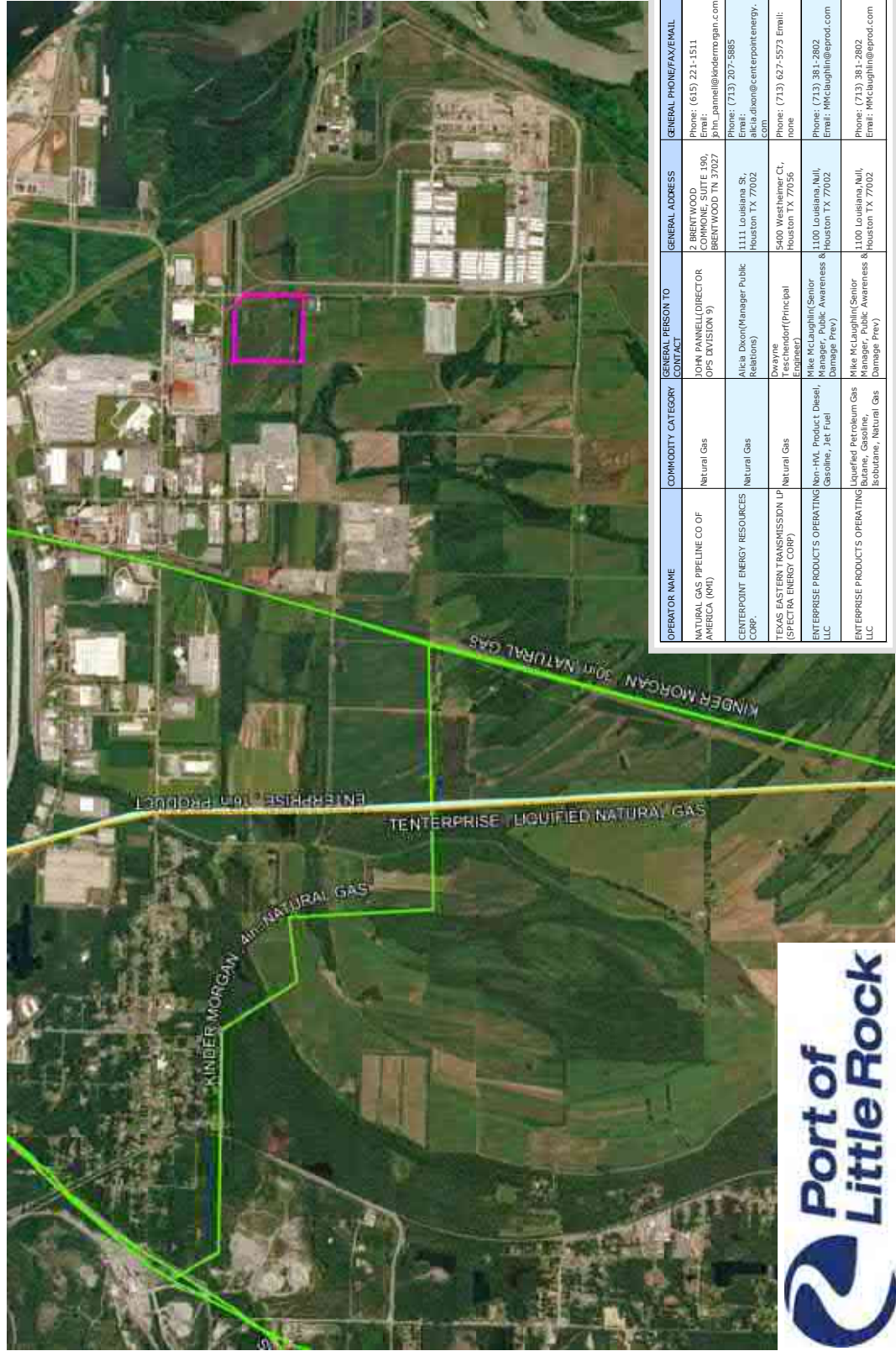
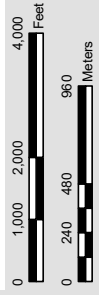
- Property Boundary
- LIQUIFIED NATURAL GAS
- NATURAL GAS
- PRODUCT

NOTE

These drawings are provided merely to assist in economic development efforts. The Energy Companies make no representations or warranties whatsoever regarding the accuracy or completeness of any information contained herein for the condition or suitability of any properties. Users should direct inquiries about any property to the listing broker for that property.

SOURCE

Source: HTSI, Downloaded 6/20/15, NPMS Viewer, Downloaded 7/20/15
 Created by: RFG
 Date: 5/20/17



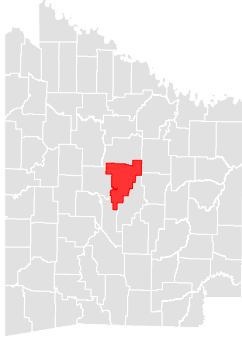
OPERATOR NAME	COMMODITY CATEGORY	GENERAL PERSON TO CONTACT	GENERAL ADDRESS	GENERAL PHONE/FAX/EMAIL
NATURAL GAS PIPELINE CO OF AMERICA (NGPA)	Natural Gas	JOHN DANIEL/DIRECTOR OPS (DIVISION 9)	2 BREKWOOD COMMONS, SUITE 190, BREKWOOD TN 37027	Phone: (615) 221-1511 Email: john_daniel@centerpointenergy.com
CENTERPOINT ENERGY RESOURCES CORP.	Natural Gas	Alicia Dixon (Manager Public Relations)	1111 Louisiana St, Houston TX 77002	Phone: (713) 207-5885 Email: alicia.dixon@centerpointenergy.com
TEXAS EASTERN TRANSMISSION LP (SPECTRA ENERGY CORP)	Natural Gas	Dwayne Teschendorf (Principal Engineer)	5403 Westheimer Ct, Houston TX 77056	Phone: (713) 627-3573 Email: none
ENTERPRISE PRODUCTS OPERATING LLC	Non-HVLS Product, Diesel, Gasoline, Jet Fuel	Mike McLaughlin (Senior Manager, Public Awareness & Damage Prev)	1100 Louisiana Null, Houston TX 77002	Phone: (713) 361-2802 Email: MMcLaughlin@eprod.com
ENTERPRISE PRODUCTS OPERATING LLC	Liquefied Petroleum Gas, Butane, Gasoline, Isobutane, Natural Gas	Mike McLaughlin (Senior Manager, Public Awareness & Damage Prev)	1100 Louisiana Null, Houston TX 77002	Phone: (713) 361-2802 Email: MMcLaughlin@eprod.com



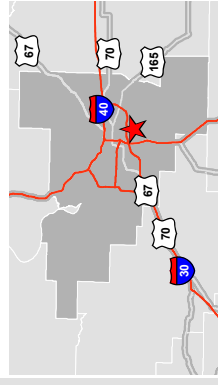
Frazier Pike Site
Entergy Electrical Infrastructure

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PULASKI COUNTY



VICINITY



LEGEND

- Property Boundary
- Electrical Substation
- Transmission Lines**
- 115 KV
- Distribution Lines**
- Phase, System Voltage**
- Single Phase, 13.8 KV
- Two Phase, 13.8 KV
- Three Phase, 13.8 KV

NOTE

These drawings are provided merely to assist in economic development efforts. The Entergy Companies make no representation or warranties whatsoever as to the accuracy, completeness, or reliability of the information contained herein nor the condition or suitability of any properties. Users should direct all inquiries about any property to the listing broker for that property.

SOURCE

Service Layer Credits: © 2019 Microsoft Corporation © 2019 DigitalGlobe
© CNES (2019) Distribution Airbus DS
Source: TomTom, Esri, DeLorme, Swire, 2019;
Distribution: Entergy, 2019

Created by: RFG
Date: 10/2019





Frazier Pike Site

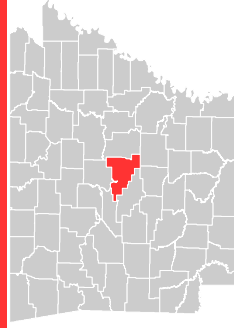
Utility Infrastructure Map

425 West Capitol Ave., Suite 2700
Little Rock, AR 72201

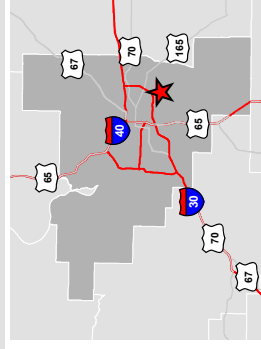
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PULASKI COUNTY



VICINITY



LEGEND

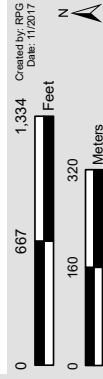
- Property Boundary
- Utilities**
- Natural Gas Distribution
- Sewer Gravity Line
- Sewer Force Main
- Water Line
- Water Line Continues

NOTE

These drawings are provided merely to assist in assessing development efforts. The Energy Companies make no representations or warranties whatsoever regarding the accuracy or completeness of any information contained herein nor the condition or suitability of any properties. Users should direct inquiries about any property to the listing broker for that property.

SOURCE

Water Line: Little Rock Port Authority
Wastewater: Little Rock Wastewater, Project Silent Noise
Natural Gas: Centennial Energy





Existing Industries

1. Sage V Foods
2. Cap Fleet Uplifters
3. Central Pipe Supply
4. BNSF
5. Medical Clinic
6. Hi Speed
7. US Postal Service
8. Admiral Moving Services
9. Orbit Fluid Power/ Access Control Devices
10. Fire Station – Class 2 Rating
11. Fastenal
12. Phillips 66 (Gas Station)
13. Valero (Gas Station)
14. LRPA Foreign Trade Zone 14
15. Buzzi Unicem
16. SSA Logistic Services
17. Southern Freight Lines
18. Con-way Southern Express
19. Frito Lay
20. Boyd Metals
21. Democrat Printing & Lithographing
22. HMS
23. Interstate Signways
24. Lexicon
25. Available Building
26. Available Building
27. Novus
28. Waste Management
29. USALCO
30. Ryerson
31. LM Windpower / GE
32. Safety Kleen
33. TY Garments
34. REW Materials
35. Entergy Arkansas
36. Hormel Skippy Peanut Butter
37. SIMS Metals
38. LRPA Warehouses
39. LRPA Dock
40. Central Transport
41. George Fischer Harvel
42. Bulk Transport Company
43. Younga
44. AAA Cooper
45. Tri State Truck Center
46. L&W Supply
47. Natural State Recycling
48. Dar Pro Solutions
49. O'Neal Steel
50. Welspun (Small Pipe)
51. Delta Plastics
52. Ring Container
53. J&M Food Products
54. Raj Mahal Temple
55. Welspun (Large Pipe)
56. CZ-USA



✈ BILL AND HILLARY CLINTON NATIONAL / ADAMS FIELD

Prepared by:
Entergy
 ULTIMATE ENERGY DEVELOPMENT

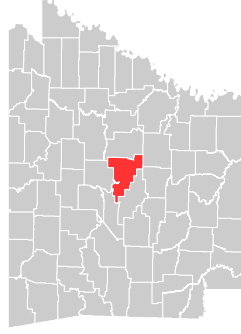


Little Rock Port Authority Industrial Park

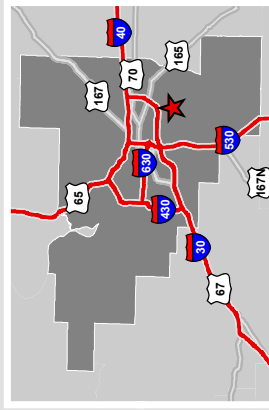
Frazier Pike Site Zoning Map

425 West Capitol Ave., Suite 2700
Little Rock, AR 72201
Phone: 1-888-301-5861
goentergy.com/ar

PULASKI COUNTY



VICINITY



LEGEND

Property Boundary

Color	Existing Zoning	Color	Existing Zoning
Light Blue	CP	Light Green	IC
Light Green	CP2	Light Yellow	IC2
Yellow	CP3	Orange	IC3
Orange	CP4	Red	IC4
Red	CP5	Dark Red	IC5
Dark Red	CP6	Purple	IC6
Purple	CP7	Dark Purple	IC7
Dark Purple	CP8	Black	IC8
Black	CP9	White	IC9
White	CP10	Light Blue	IC10
Light Blue	CP11	Light Green	IC11
Light Green	CP12	Light Yellow	IC12
Light Yellow	CP13	Orange	IC13
Orange	CP14	Red	IC14
Red	CP15	Dark Red	IC15
Dark Red	CP16	Purple	IC16
Purple	CP17	Dark Purple	IC17
Dark Purple	CP18	Black	IC18
Black	CP19	White	IC19
White	CP20	Light Blue	IC20
Light Blue	CP21	Light Green	IC21
Light Green	CP22	Light Yellow	IC22
Light Yellow	CP23	Orange	IC23
Orange	CP24	Red	IC24
Red	CP25	Dark Red	IC25
Dark Red	CP26	Purple	IC26
Purple	CP27	Dark Purple	IC27
Dark Purple	CP28	Black	IC28
Black	CP29	White	IC29
White	CP30	Light Blue	IC30
Light Blue	CP31	Light Green	IC31
Light Green	CP32	Light Yellow	IC32
Light Yellow	CP33	Orange	IC33
Orange	CP34	Red	IC34
Red	CP35	Dark Red	IC35
Dark Red	CP36	Purple	IC36
Purple	CP37	Dark Purple	IC37
Dark Purple	CP38	Black	IC38
Black	CP39	White	IC39
White	CP40	Light Blue	IC40
Light Blue	CP41	Light Green	IC41
Light Green	CP42	Light Yellow	IC42
Light Yellow	CP43	Orange	IC43
Orange	CP44	Red	IC44
Red	CP45	Dark Red	IC45
Dark Red	CP46	Purple	IC46
Purple	CP47	Dark Purple	IC47
Dark Purple	CP48	Black	IC48
Black	CP49	White	IC49
White	CP50	Light Blue	IC50

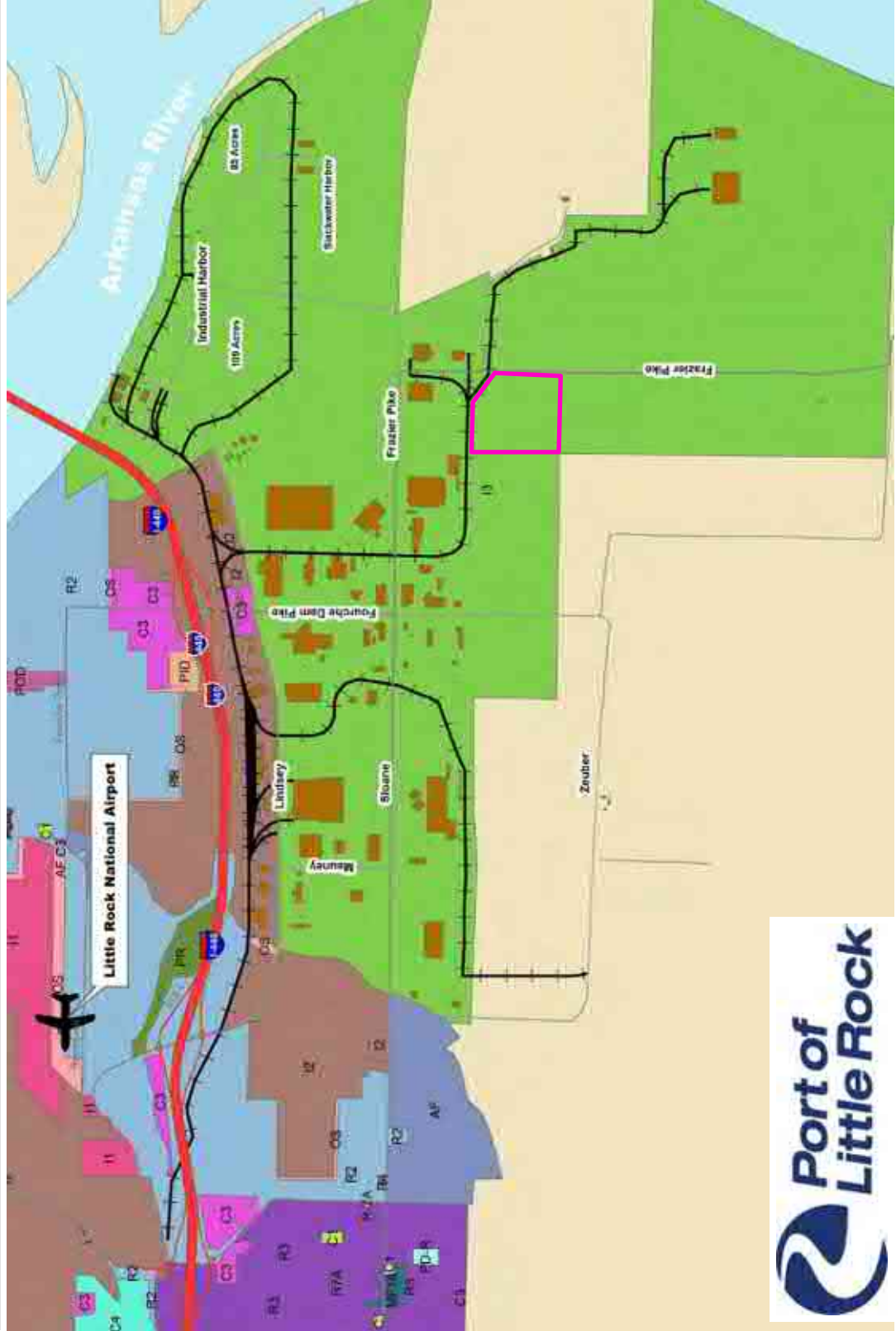
NOTE

These drawings are provided merely to assist in economic development efforts. They are not intended to constitute an offer of any financial product or service, and the accuracy or completeness of any information contained herein nor the condition or suitability of any properties. Users should direct inquiries about any property to the listing broker for that property.

SOURCE

Zoning Map from Little Rock Port Authority map of existing zoning for project submission, 3/2018.

Created by: RPG
Date: 3/2018



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