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American Electric Power
502 North Allen Avenue
Shreveport, LA 71101
AEP.com

June 21, 2016

Mr. Ali Dorobati
Arkansas Dept. of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

RE: Flint Creek Power Plant Ash Landfill
Permit No. 0273-S3N-R2; CSN 04-0107

Dear Mr. Dorobati:

Enclosed find the pre-application and permit fee for a lateral expansion of the Class 3N landfill at Flint Creek.

If you have any questions, I can be reached at 318-673-2721 or by email at tewehling@AEP.com.

Sincerely,

Terry Wehling, P.E.
Principal Environmental Engineer

Attachment

cc: CD with pre-application
Check - permit fee

AFIN: 04-00107
PMT#: 0273-S3N-R2 REC'D SCAN

JUN 22 2016

DOC ID: 69808
TO: ADZ file SWMD

Pre-Application

Southwestern Electric Power Company
Flint Creek Power Plant Landfill
Proposed Lateral Expansion
Gentry, Arkansas

Permit No. 0273-S3N-R2
AFIN: 04-00107

May 2016
Project No. 35157156



Prepared for:

SWEPCO – Flint Creek Power Plant
21797 SWEPCO Road
Gentry, Arkansas 72734
(479) 736-2626

Prepared by:

Terracon Consultants, Inc.
25809 Interstate 30 South
Bryant, Arkansas 72022
(501) 847-9292

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials

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1.0 INTRODUCTION

This document constitutes a Pre-Application for a proposed major permit modification for expansion of the Southwestern Electric Power Company (SWEPCO) Flint Creek Power Plant Landfill (Permit No. 0273-S3N-R2), as compiled by Terracon Consultants, Inc. (Terracon) in accordance with the Arkansas Pollution Control & Ecology Commission (APC&EC), and Arkansas Department of Environmental Quality (ADEQ) Solid Waste Management Regulation 22 (Reg. 22). The proposed landfill expansion is as generally shown on the enclosed maps and figures. SWEPCO currently owns all of the property proposed for the landfill expansion.

1.1 Background

SWEPCO is currently preparing a Permit Modification Application to expand their Class 3N disposal area at the Flint Creek Power Plant Landfill. The general location of the site is shown on **FIGURE 1**. The proposed expansion is generally located in the North $\frac{1}{2}$ of the NE $\frac{1}{4}$ of Section 8, part of the NE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 8, part of the South $\frac{1}{2}$ of the SE $\frac{1}{4}$ of Section 5, and part of the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 5, Township 18 North, Range 33 West, in Benton County, Arkansas as illustrated on **FIGURE 2**. SWEPCO currently owns, operates, and maintains a Class 3N landfill consisting of 40-acres with a total capacity of 2,854,000 cubic yards. This proposed lateral expansion will increase the facility to a total of approximately 106 acres and a 6,200,000 cubic yard capacity.

The proposed Class 3N Facility will be used for disposal of fly ash, bottom ash and other by-products generated by the coal-fired power plant. The proposed waste materials are non-hazardous, inert, and non-putrescible. The property that the Class 3N Facility will be located on is currently used for agricultural purposes which includes cattle and hay crops. **FIGURE 1** is a site map that illustrates the location of the expansion area in relation to the permitted landfill area.

Purpose, Scope, and Applicability

The permit modification application will be submitted as per **Reg.22.308**. This modification is classified as a major modification under the provisions of **Reg.22.308(c)**. Expansion of an existing landfill requires compliance with **Reg.22.308, 22.302, 22.203, 22.204, and 22.205** prior to submittal of the permit modification application. The following information and supporting documents constitute a Pre-Application corresponding to the proposed expansion of the Flint Creek Power Plant Landfill. This document is intended to comply with **Reg.22.302(b)** of Arkansas Regulation 22 and will address the following:

1. The name and address of the applicant and the owner of the site or facility;

2. The location of the proposed disposal site including a description of access roads, streams which are in close proximity to the site, dwellings, and any other relevant geographic and geologic features of the site. Pre-application for disposal facilities shall include data on soil conditions and general geologic features;
3. A 7.5-minute quadrangle map showing disposal site boundaries. The processing facility must also be shown on an appropriate scale city or county map;
4. Copies of notifications to appropriate agencies regarding whether the selected site is in conformance with the airport safety, floodplain, wetlands separation distances and location restrictions, and protective of endangered species, historic archaeology, and flora and fauna; Those agencies include, but are not limited to, the Federal Aviation Administration, US Army Corps of Engineers, US Fish and Wildlife Services, Arkansas Game and Fish Commission, Arkansas Historic Preservation Program, Arkansas Heritage Commission, and the Arkansas Department of Health;
5. Assurance that the permit applicant has the legal authority to enter the lands for purposes of performing site investigations and studies;
6. Declaration of the classification of landfill or type of processing area and proposed service area;
7. A description of the nature and type of wastes to be disposed of or processed;
8. Disclosure Statement;
9. Pre-application fee according to current fee schedule;
10. Certificate of Need from Regional Solid Waste Planning Board in accordance with **Reg.22.205**, except that Class 3 Noncommercial landfills applicants shall instead provide a copy of the notice to the Regional Solid Waste Planning Board required in **Reg.22.203**;
11. Site selection approval of or notice to the local government authority as required under **Reg.22.203**; and
12. Additional information deemed necessary by the Department for performance of a preliminary site investigation.

Reg.22.204(c) requires host community approval for this expansion. Each of these criteria is specifically addressed in this document.

2.0 ARKANSAS REGULATION 22 REQUIREMENTS

Permit application procedures are outlined in Chapter 3 of Arkansas Regulation 22. The following sections specifically address each of the required elements of the Pre-Application as they relate to a Class 3N landfill facility.

2.1 General provisions (Reg.22.301)

The general provisions outlined in **Reg.22.301** of Arkansas Regulation 22 provide the requirements common to all solid waste disposal permits. The majority of the requirements of this section will be addressed in the final application stage of the solid waste permit modification process. The following sections are applicable to the pre-application stage of the solid waste permit modification application process.

Reg.22.301(e) Environmental Compliance Record – This section of the regulation grants the Director the authority to deny the issuance of a permit based upon information he finds in the disclosure statement or other investigations. Exemptions for submitting disclosure statements exist for companies that are publicly held. In the event of an exemption, the most recent annual and quarterly reports required by the Securities and Exchange Commission (SEC Forms 10Q and 10K) must be submitted. SWEPCO is wholly owned by American Electric Power, which is a publicly held company and is therefore exempt from filing a disclosure statement. Therefore, the most recent Forms 10Q and 10K are included in **APPENDIX F**.

Reg.22.301(h) Signature on Applications – This section of the regulation specifies the qualifications of the individual that can sign application materials for various types of entities. The pre-application form in **APPENDIX A** of this document is for a corporation as defined by **Reg.22.301(h)(1)** of Arkansas Regulation 22. The signature on the pre-application is in accordance with **Reg.22.301(h)(1)** of Arkansas Regulation 22. A copy of the written consent authorizing the signatory authority is included in **APPENDIX A**.

Reg.22.301(i) Professional Services Required – This section of the regulation requires that the services of a registered professional engineer and registered professional geologist shall be retained by Class 3N landfill applicants for disposal and processing permits for the development of geotechnical and hydrogeologic studies, permit plans, and specifications. Terracon is currently working with SWEPCO to prepare a solid waste Permit Modification Application, which includes geotechnical and hydrogeological studies, and permit plans for the Flint Creek Power Plant Class 3N facility. Terracon is a registered engineering company in the State of Arkansas, and employs both engineers and geologists registered to practice within the State of Arkansas. The appropriate documents will be prepared by the designated engineer and geologist under their direct control and personal supervision.

2.2 Pre-Application Procedures (Reg.22.302)

Prior to the preparation of detailed designs or extensive geologic investigations, applicants for new solid waste disposal permits, or modified permits involving an expansion of the permitted area must prepare and submit a Pre-Application. The following sections provide specific information required for a Pre-Application for a Class 3N landfill lateral expansion.

2.2.1 Pre-Application Form and Documents

All Pre-Applications must contain at least the following information and supporting documentation:

1. **Reg.22.302(b)(1)** states that all pre-applications shall contain the name and address of the applicant and the owner of the site or facility.

Owner/Applicant: Southwestern Electric Power Company – Flint Creek Plant
Contact: Mr. Carl F. Handley II
Address: 21797 SWEPCO Road
Gentry, Arkansas 72734
(479) 444-4711

2. **Reg.302.(b)(2)** states that all pre-applications must contain the location of the proposed disposal or processing site including a description of access roads and streams which are in close proximity to the site, dwellings and any other relevant geographic and geologic features. Pre-applications for disposal facilities must include data on soil conditions and general geologic features.

The proposed expansion is located in the North $\frac{1}{2}$ of the NE $\frac{1}{4}$ of Section 8, part of the NE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 8, part of the South $\frac{1}{2}$ of the SE $\frac{1}{4}$ of Section 5, and part of the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 5, Township 18 North, Range 33 West, in Benton County, Arkansas as illustrated on **FIGURE 2**.

Access to the facility is from US Highway 12 west of Gentry, Arkansas, south on Pioneer Lane to SWEPCO Road, then west to the Flint Creek Power Plant.

Drainage on the site is through a culvert under the railroad tracks, south of the landfill, to the facility's primary settling basin. The receiving stream is Flint Creek bottom ash pond, thence SWEPCO Lake, thence Little Flint Creek, to Flint Creek, then to the Illinois River, and thence the Arkansas River

FIGURE 7 contains a drawing that displays the location of dwellings adjacent to SWEPCO property. The distance from the nearest dwelling to the proposed lateral expansion area is

approximately 763 feet. The distance from the nearest dwelling to the existing Class 3N landfill is approximately 852 feet. SWEPCO owns the dwellings in the expansion area.

A summary of the general geologic features and geotechnical conditions are included in **SECTION 3.0** of this document.

3. **Reg.22.302(b)(3)** requires all pre-applications to contain a 7.5 minute quadrangle map showing disposal or processing site boundaries. The processing facility must also be shown on an appropriate scale city or county map.

The facility is illustrated on a Site Location Map as shown on **FIGURE 1**. **FIGURE 2** is a depiction of a 7.5-minute quadrangle map illustrating the proposed expansion to the permitted area at the Flint Creek Class 3N Landfill. The maps indicate the existing permitted area and the proposed expansion area which is located northwest of the currently active area. The boundaries of the property are also indicated on the maps.

4. **Reg.22.302(b)(4)** states that all pre-applications must include documentation on whether the selected site is in conformance with the airport safety, floodplain, wetlands, and separation distances location restrictions, etc. established in Arkansas Regulation 22.

AIRPORT SAFETY: Reg.22.502(c) requires that the owners of any landfill proposing a lateral expansion for waste disposal that dispose of putrescible wastes located within five-miles of an airport must notify the affected airport and the FAA and furnish proof of the notification.

According to the 2008-2009 Arkansas Aeronautics Chart, there is one airport located within five miles of the expansion area at the Flint Creek Power Plant Landfill. The Siloam Springs Municipal Airport is a public use airport approximately 4.42 miles southeast of the closest corner of the existing landfill. **FIGURE 4** depicts the location of the proposed landfill expansion area in relation to the closest airport.

FLOODPLAIN: Reg.22.503, states that applicants for the new solid waste landfills and expansions to the area permitted for solid waste disposal shall demonstrate to the Department that the facility will be designed and operated in a manner that will not restrict the flow of the base flood, reduce the temporary water storage capacity of the floodplain, or result in washout of solid waste so as to pose a hazard to human health and the environment.

Neither the currently permitted area nor the proposed expansion area at the Flint Creek Class 3N Landfill are located in the 100-year flood plain as illustrated on the effective Flood Insurance Rate Map (FIRM) provided on **FIGURE 5**. Therefore, the Flint Creek Class 3N

Landfill will not restrict the flow of the 100-year flood plain, reduce the temporary water storage capacity of the flood plain, or result in a washout of solid waste. **FIGURE 5** was made with FIRM map number 05007C0195J, effective date September 28, 2007.

WETLANDS:

The Flint Creek Power Plant Landfill was not identified to be located within any wetlands regions according to the National Wetlands Inventory (NWI) (See **FIGURE 3**). SWEPCO also requested concurrence from the United States Army Corps of Engineers (USACE) on the wetland determination in a letter dated October 19, 2015 provided in **APPENDIX D**.

FAULT AREAS: Reg. 22.205 states that New Class 3 landfills and expansions to the area permitted for waste disposal shall not be located within two hundred (200) feet (60 meters) of a fault area that has had displacement in Holocene time unless the owner or operator demonstrates to the director that an alternative setback distance of less than two hundred feet (60 meters) will prevent damage to the structural integrity of the unit and will be protective of human health and the environment.

The Site is located in northwest Arkansas in the Springfield Plateau of the Ozark Plateau Province. Based on the Geologic Map of Arkansas, (Revised 1993), no mapped faults exist within the distance required in **Reg.22.205**.

SEISMIC IMPACT ZONES: Reg.22.506 states that New Class 3 landfills and expansions to the area permitted for waste disposal shall not be located in seismic impact zones, unless the owner or operator demonstrates to the director that all containment structures, including liners, leachate collection systems, and surface water control systems, are designed to resist the maximum horizontal acceleration in lithified earth material for the site. Arkansas Regulation No. 22 defines a "seismic impact zones" as an area with a two percent (2%) or greater probability that the maximum horizontal acceleration in lithified earth, expressed as a percentage of the earth's gravitational pull will exceed .10g in fifty (50) years.

The Facility Landfill is not located within the area of influence of the New Madrid Seismic Zone, a major intra-plate seismic impact zone. According to seismic hazard mapping released by the United States Geological Survey (USGS) National Seismic Hazard Mapping Project Team in 2002, the maximum horizontal bedrock acceleration for the site is outside of the 2% probability of exceedance in fifty years. The maximum horizontal bedrock acceleration for the site is 0.06780g. The United States Geological Survey National Seismic Hazard Mapping is show on **Figure 6**.

UNSTABLE AREAS: Reg.22.507 states that Owners or operators of new class 3 landfills and expansions of the area permitted for waste disposal must demonstrate that engineering measures have been incorporated into the units design to ensure that the integrity of the

structural components of the unit will not be disrupted. The owner or operator must consider the following factors, at a minimum, when determining whether an area is unstable:

- 1) On-site or local soil conditions that may result in significant differential settling;
- 2) On-site or local geologic or geomorphic features; and
- 3) On-site or local human-made features or events (both surface and subsurface).

The USDA Natural Resources Conservation Service Soils Survey 1.1 dated 2006 is presented in **APPENDIX B**. A hydrogeological and geotechnical investigation will be performed at this facility. This information will be utilized in the design of the Class 3N Landfill.

AGENCY NOTIFICATION: Reg.22.302(b)(4) requires notification to be sent to appropriate agencies regarding whether the selected site is in conformance with the airport safety, floodplain, wetlands separation distances and location restrictions, and protective of endangered species, historic archaeology, and flora and fauna. Those agencies include, but are not limited to, the Federal Aviation Administration, US Army Corps of Engineers, US Fish and Wildlife Services, Arkansas Game and Fish Commission, Arkansas Historic Preservation Program, Arkansas Natural Heritage Commission, and the Arkansas Department of Health. Correspondence to these agencies can be seen in **APPENDIX D**.

SEPARATION DISTANCES: Reg.22.508 establishes minimum separation distances associated with Class 3 Landfills. **FIGURE 7** is a drawing of the proposed expansion layout indicating compliance with the prescribed buffers. **FIGURE 7** includes the closest domestic wells, and dwellings located within a 2 mile radius. Specific Separation distances are as follows:

- 1) "Five hundred (500) feet of an existing well or water intake used as a drinking water source as determined at the time notification or application is made to local or regional authorities as required by Reg.22.201, Reg.22.202, or Reg.22.203 as applicable."
- 2) Three hundred (300) feet of an existing dwelling, unless owned by the applicant, as determined at the time of notification or application is made to local or regional authorities as required by Reg.22.201, Reg.22.202, or Reg.22.203 as applicable."
- 3) One hundred (100) feet of the property boundary.

The SWEPCO Flint Creek Class 3N Landfill will maintain the required minimum separation distances from the Landfill to existing wells or water intakes (500 feet), and existing dwellings (300 feet). Documentation on conformance with the separation distances (**Reg.22.408**) for water wells is included in **APPENDIX C**. The closest water well not owned by SWEPCO is approximately 750 feet from the proposed lateral expansion area.

5. **Reg.22.302(b)(5)** states that all pre-applications must contain assurance that the permit applicant has the legal authority to enter the land for purposes of performing site investigations and studies.

SWEPCO owns the subject property shown in **APPENDIX E**, which includes the existing permitted acreage corresponding to the Flint Creek Class 3N Landfill and approximately 75 acres of proposed lateral expansion area. Documentation of the property ownership for the subject property is included in **APPENDIX E**.

6. **Reg.22.302(b)(6)** states that all pre-applications must include a declaration regarding the classification of landfill or type of processing area and proposed service area.

The Flint Creek Class landfill is classified as a Class 3N industrial solid waste landfill as defined by Arkansas Regulation 22. The Flint Creek landfill only accepts waste from the SWEPCO Flint Creek Power Plant.

7. **Reg.22.302(b)(7)** states that all pre-applications must include a description of the nature and type of wastes to be disposed or processed.

A description of the nature and type of waste to be disposed is included in **SECTION 4.0** of this document.

8. **Reg.22.302(b)(8)** states that all pre-applications must contain a disclosure statement (“not required for governmental entities including federal, state, county, municipal, regional solid waste authorities”).

Exemptions for submitting disclosure statements exist for companies that are publicly held. In the event of an exemption, the most recent annual and quarterly reports required by the Securities and Exchange Commission (SEC Forms 10Q and 10K) must be submitted. SWEPCO is wholly owned by American Electric Power, which is a publicly held company and is therefore exempt from filing a disclosure statement. Therefore, the most recent Forms 10Q and 10K are included in **APPENDIX F**.

9. According to **Reg.22.302(b)(9)**, all pre-applications must be accompanied by a pre-application fee in accordance with the current fee schedule.

The \$2,000 pre-application fee is provided with the cover letter transmitting this document.

10. **Reg.22.302(b)(10)** requires a Certificate of Need from Regional Solid Waste Planning Board in accordance with **Reg.22.205**, except that Class 3N Noncommercial landfills applicants shall instead provide a copy of the notice to the regional Solid Waste Planning board required in **Reg.22.203**.

A Certificate of Need is not required since this is a proposed Class 3N Landfill. As a courtesy, SWEPCO submitted Notice of Intent to the Benton County Regional Solid Waste Management District dated October 19, 2015. The Notice of Intent is in **APPENDIX D**.

11. **Reg.22.302(b)(11)** requires site selection approval by or notice to the local government authority as required under **Reg.22.203(f)**.

Reg.22.203 states that proposed solid waste facility sites must have approval from the Local Authority by providing the following:

As previously noted, as a courtesy, SWEPCO submitted Notice of Intent to the Benton County Regional Solid Waste Management District dated October 19, 2015. The Notice of Intent is presented in **APPENDIX D**.

Reg.22.302(b)(12) states that Additional information deemed necessary by the Department for performance of preliminary site investigation.

12. *Additional information deemed necessary by the Department for performance of a preliminary site investigation. (Reg.22.302(b)(12))*

SWEPCO will submit additional information requested by the ADEQ.

Reg.22.302(c), (d), (e), and (f) of Arkansas Regulation 22 pertain to the steps that are to be taken in response to the filing of this Pre-Application. More specifically, these sections pertain to public meetings, the pre-site investigation by the ADEQ, and the ADEQ response to the pre-site investigation.

SWEPCO will document actions to further investigate and overcome site limitations in the facility design which are identified in the preliminary site investigation prior to submitting the final Permit Modification Application. The existing Permit 0273-S3N-R2 can be found in **APPENDIX G**.

3.0 GENERAL SITE GEOLOGY

This section presents the general regional and site geological and hydrogeological information for the Flint Creek Class 3N Landfill located near Gentry, Arkansas. More specifically, this section describes the stratigraphy, lithology, and hydrogeology in the vicinity of the proposed landfill expansion area. This information is derived from previous subsurface investigations that have been conducted at the site and in the general vicinity.

3.1 Regional Geology and Hydrogeology

The following subsections describe the regional geology, structural geology, regional stratigraphy and hydrogeology of the area including and surrounding the proposed expansion area.

3.1.1 Regional and Local Geologic Setting

The Site is located in northwest Arkansas in the Springfield Plateau of the Ozark Plateau Province. The Ozark Plateau Province covers northern Arkansas and consists of sedimentary rock strata which have undergone massive uplift and which remain relatively horizontal with only minor deformation. Stream erosion has removed much of the original surface rock and typically dissected the area into hills and low mountains. Elevations typically range from 1200 to 1400 feet above mean sea level. Extensive relatively flat areas occur in Benton County. The Site is underlain by the Boone Formation which consists primarily of limestone and chert of Lower Mississippian age. In-situ weathering has reduced the limestone, leaving chert and limestone gravel mixed with clay as a residual soil overburden. The Boone Formation, in this area, consists of a weathered cherty limestone with red to brown clay seams.

In the vicinity of the study area, the stratigraphy consists of a weathered residuum of the Boone Formation, overlying the cherty limestone of the Boone Formation (Mississippian). The Boone Formation lies conformably atop the St. Joe Member (Mississippian) and together comprise one hydrostatic unit known as the Boone-St. Joe Aquifer. Unconformably underlying the Boone-St. Joe is the Chattanooga Shale (Devonian), which acts as the upper confining layer of the Sylamore, Clifty, and Everton Aquifers.

In-situ weathering has reduced the limestone, leaving chert and limestone gravel mixed with clay as residual soil overburden. The Boone residuum is characterized by red (iron-rich) clay, weathered limestone and chert. The thickness of residuum varies from 15 to 50 feet, and the limestone and chert content also varies in lateral extent. The chert is typically the remnant of weathering after the limestone is removed by dissolution in surface and groundwater.

The Boone Formation is a gray, crinoidal limestone abundantly interbedded with gray, black and blue chert. It is massive, well cemented and has a thickness of approximately 300 to 350 feet in northwest Arkansas.

The underlying St. Joe Member is typically a light-gray, mud-supported Crinozoan-Bryozoan crystalline limestone, and is easily recognized by its lack of chert. In Northern Arkansas, the formation exhibits a thickness of between 6 to 110 feet, with an average of thickness of 45 feet.

The underlying Chattanooga Shale is a black, fissile and carbonaceous rock with abundant pyrite. It thickens (up to 70 feet) westward and acts as a barrier to vertical groundwater flow

3.1.2 Regional Hydrogeology

Groundwater occurs at various depths and the presence of water appears to be related to a number of factors, including site lithology, rock type and thickness, and number of fractures encountered. The seasonal high elevations from the current site monitoring wells located near the proposed landfill expansion range from 1151 to 1157-feet msl (See **TABLE 1**)

Perched groundwater is occasionally present within the upper unconsolidated soils; however, this perched zone appears discontinuous across the site. Groundwater can occur in both the unconsolidated soils and within the limestone.

In the area of the Flint Creek Power Plant, water wells supply some rural domestic households, while public water is available in most towns. According to state water well records, water wells are typically drilled through the Boone Formation and Chattanooga Shale into the underlying Ordovician age dolomites. In general, the total depth of the water wells is approximately 500 feet below ground surface. The water wells are usually cased to allow water production from both the Boone Formation and the Ordovician dolomites. Yields generally range from 2 to 30 gallons per minute (gpm). Some wells within the area have been completed only within the Boone Formation at a typical depth of approximately 200 feet below ground surface. Yields from these wells generally range from 2 to 10 gpm with some wells yielding up to 100 gpm. This information was obtained from the Hydrogeologic Site Characterization report dated February 1992 performed by Burns and McDonnell Engineers-Architects-Consultants.

3.1.5 Regional Soils

As previously mentioned, the USDA Natural Resources Conservation Service Soils Survey 1.1 dated 2006 is provided in **APPENDIX B**.

4.0 WASTE STREAM PROCESS DESCRIPTION

Reg.22.302(b)(7) states that all pre-applications must include a description of the nature and type of wastes to be disposed or processed.

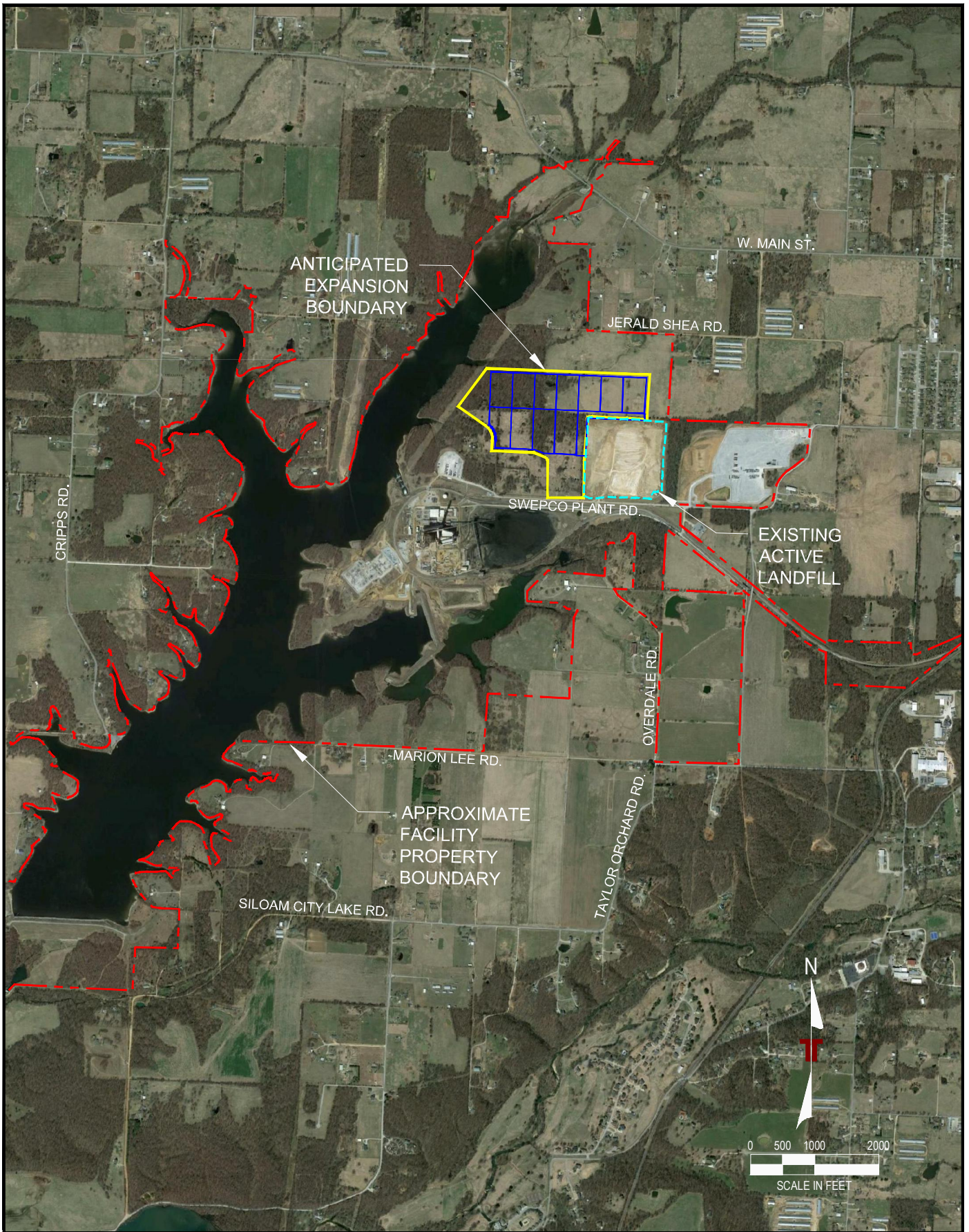
The facility will accept Class 3N waste as defined in Arkansas Regulation 22:

- Class 3 waste per ADEQ Reg.22.102 is defined as “nonhazardous commercial, industrial and special solid wastes that are permitted by the Department to be disposed of in a Class 3 landfill.”

Materials to be disposed in the proposed Class 3N Facility will include waste materials associated with the construction and operation of the SWEPCO Flint Creek Power Plant. These include:

- dry flue gas desulfurization waste,
- fly ash,
- bottom ash and economizer ash,
- dredge from ash ponds,
- solids from landfill leachate pond, contact water pond, and truck wash,
- coal mill rejects,
- waste coal,
- refractory materials,
- water treatment system wastes,
- solids from drainage ditches and sumps,
- construction and demolition debris,
- ecology pit solids,
- waste activated carbon (new or spent),
- waste lime (new and spent),
- boiler, precipitator, and flue gas duct cleaning waste,
- dry flue gas desulfurization (DFGD),
- activated carbon injection (ACI),
- baghouse and flue gas system cleaning wastes,
- scrubber system containment solids (from scrubber process water storage basin, pipes, trenches, and sumps),
- non-hazardous grit blast waste,
- Air drier desiccant,

In addition to the materials listed above, AEP may propose additional non-hazardous, non-commercial industrial waste streams in the permit application.



Project Mngr:	DCM
Drawn By:	TLB
Checked By:	DCM
Approved By:	QMB

Project No.	216-001-31517156
Scale:	AS SHOWN
File No.	002
Date:	2-10-2016

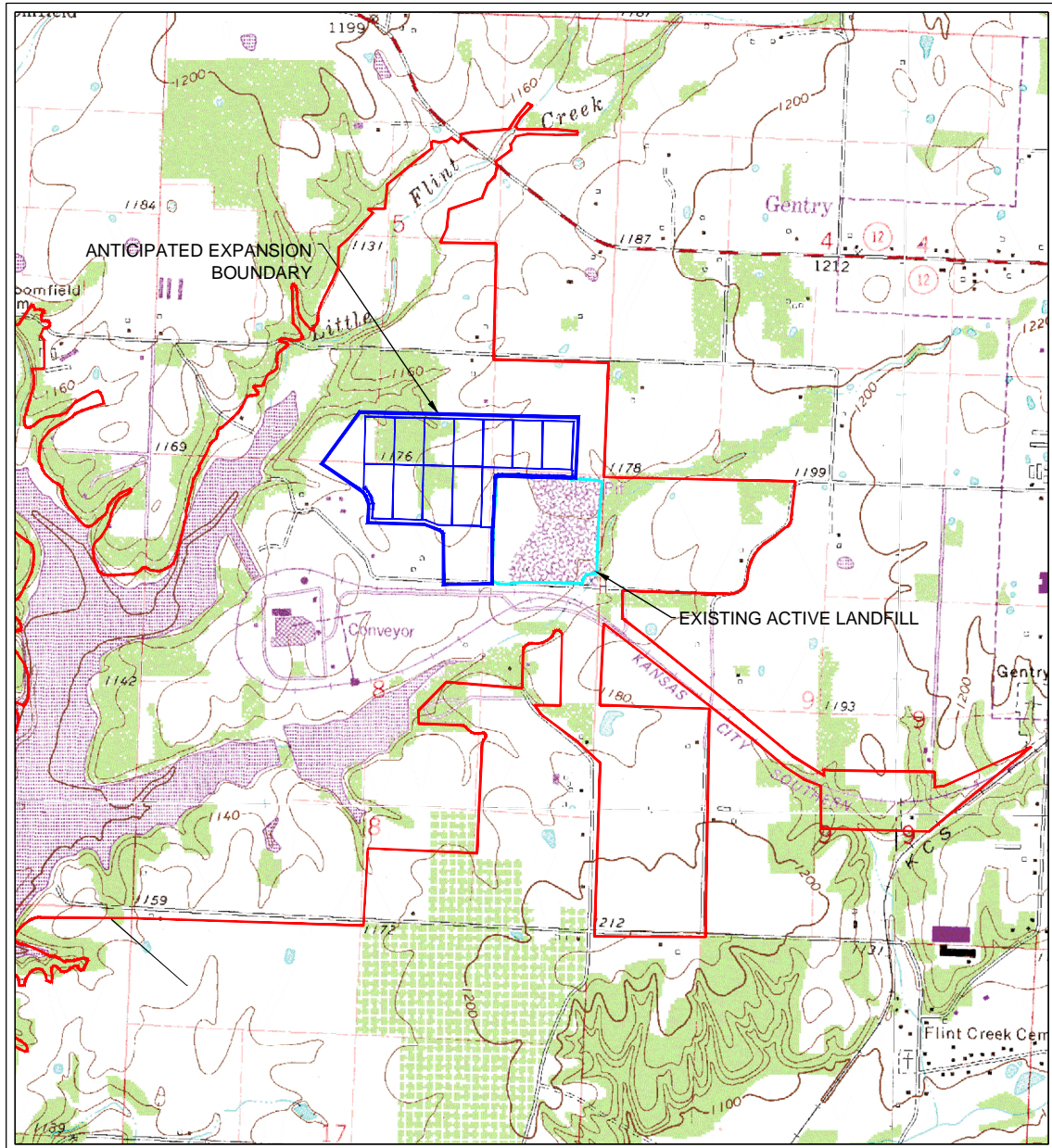
Terracon
 Consulting Engineers and Scientists
 1505 Old Happy Jack Road Cheyenne, WY 82001
 PH. (307) 632-9224 FAX. (307) 635-5756

SITE LOCATION MAP

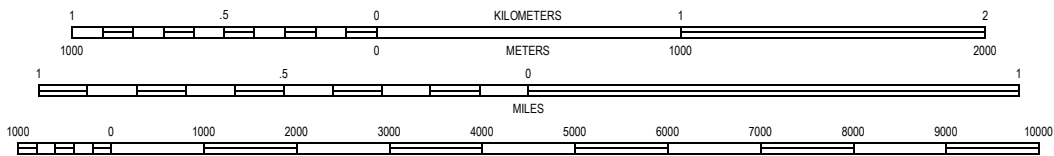
PROPOSED LANDFILL LATERAL EXPANSION
AMERICAN ELECTRIC POWER
 SWEPCO/FLINT CREEK POWER PLANT LANDFILL

GENTRY ARKANSAS

FIG. No.	1
----------	---



SCALE 1:24 000




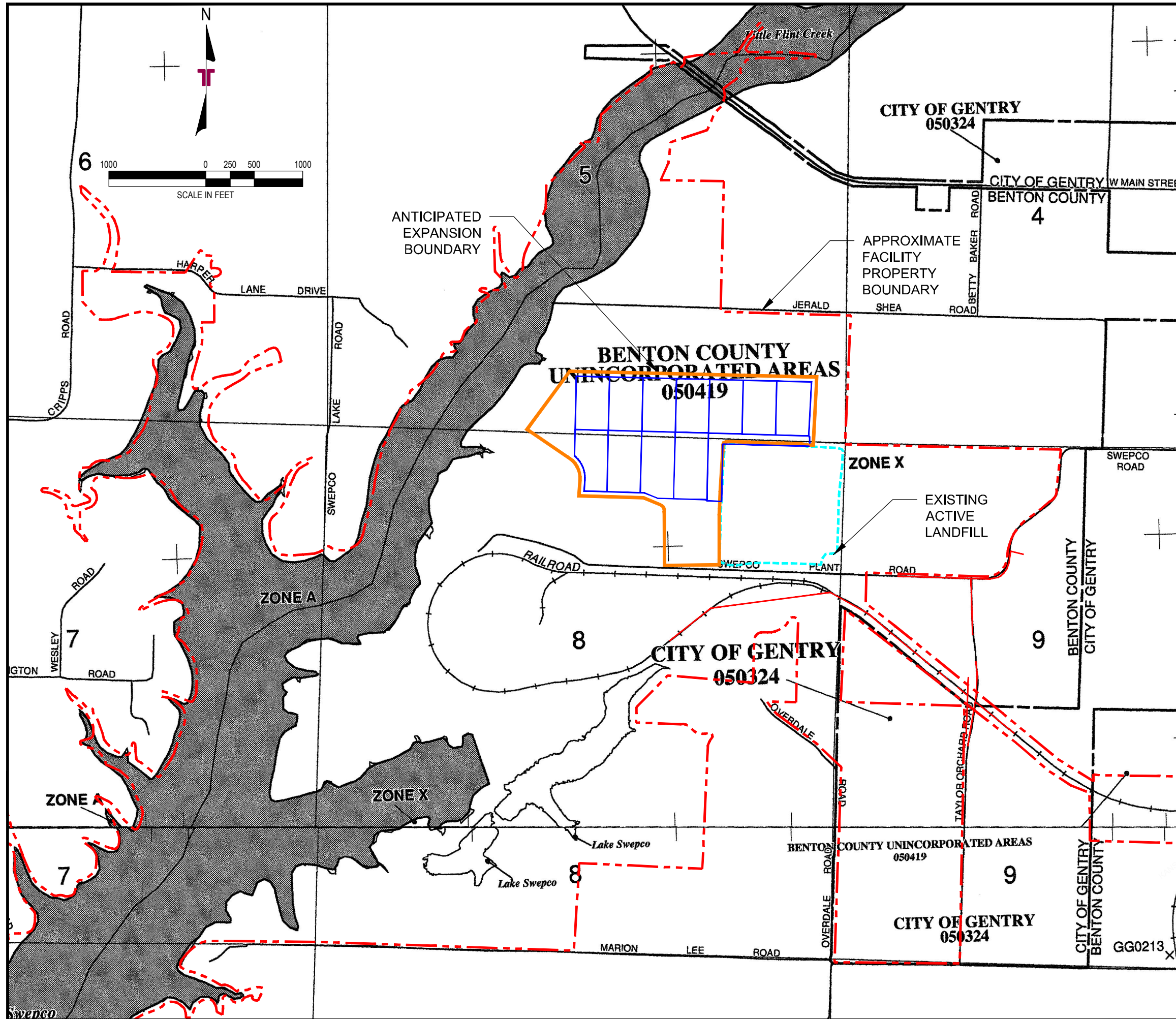
CONTOUR INTERVAL 20 FEET
NATIONAL GEODETTIC VERTICAL DATUM OF 1929

CHEROKEE CITY
QUADRANGLE
1982

7.5 MINUTE SERIES (TOPOGRAPHIC)



Project Mngr: DCM	Project No. 216-001-35157156	 Consulting Engineers and Scientists 25809 I-30 SOUTH BRYANT, AR 72022 PH. (501) 847-9292 FAX. (501) 847-9210	7.5 MINUTE QUADRANGLE MAP	FIG. No.
Drawn By: TLB	Scale: AS SHOWN		PROPOSED LANDFILL LATERAL EXPANSION	2
Checked By: DCM	File No. 003		AMERICAN ELECTRIC POWER	
Approved By: QMB	Date: 2-11-2016		SWEPCO/FLINT CREEK POWER PLANT LANDFILL	
			GENTRY ARKANSAS	



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
 The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AD, AR, AP, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.
ZONE AE Base Flood Elevations determined.
ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AD Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of survival for flooding, velocities also determined.
ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently described. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE AP Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE
 The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS
ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
OTHER AREAS
ZONE D Areas in which flood hazards are undetermined, but possible.
COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
OTHERWISE PROTECTED AREAS (OPAs)
 CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

BOUNDARIES
 Floodplain boundary
 Floodway boundary
 Zone D boundary
 CBRS and OPA boundary
 Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
 Base Flood Elevation line and value; elevation in feet*
 Base Flood Elevation value where uniform within zone; elevation in feet**

* Referenced to the North American Vertical Datum of 1989 (NAVD 89)
 A Cross section line
 B Transverse line
 67°07'07.32" W Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
 4797000 N 1996-meter Universal Transverse Mercator grid NAD 83, zone 15
 5000-foot grid ticks: Arkansas State Plane coordinate system, north zone (FIPSZONE 0301), Lambert Conformal Conic
 DX5510 Bench mark (see explanation in Notes to Users section of this FIRM panel)
 M1.5 River Mile
MAP REPOSITORIES
 Refer to Map Repositories list on Map Index
EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
 September 28, 2007
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.
 To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-8626.

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0195J

FIRM FLOOD INSURANCE RATE MAP BENTON COUNTY, ARKANSAS AND INCORPORATED AREAS

PANEL 195 OF 500
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
BENTON COUNTY	050419	0195	J
GENTRY, CITY OF	050324	0195	J

Notice to User: The Map Number shown below should be used when placing map orders. The Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER 05007C0195J
EFFECTIVE DATE SEPTEMBER 28, 2007

Federal Emergency Management Agency

FIGURE 5

DESIGNED BY:	JDW	OF
DRAWN BY:	TJB	
APP'D BY:	DCM	
SCALE:	SEE BARSCALE	
DATE:	2-11-2016	
JOB NO.	216-001-3515/156	
ACAD NO.	006	
SHEET NO.		

FLOOD INSURANCE RATE MAP (FIRM)

PROPOSED LANDFILL LATERAL EXPANSION

AMERICAN ELECTRIC POWER

SWEPCO/FLINT CREEK POWER PLANT LANDFILL

ARKANSAS

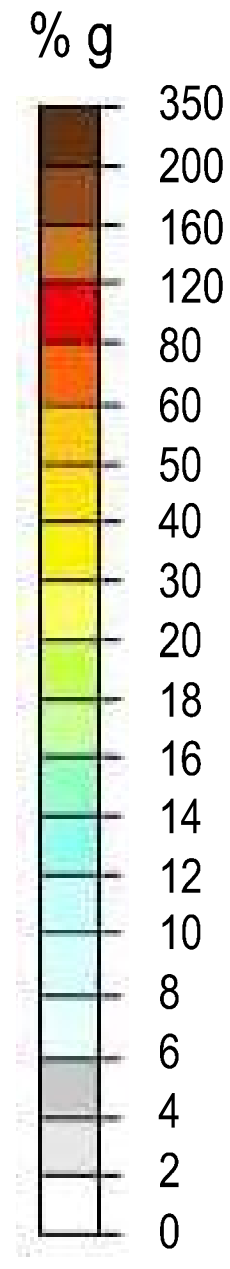
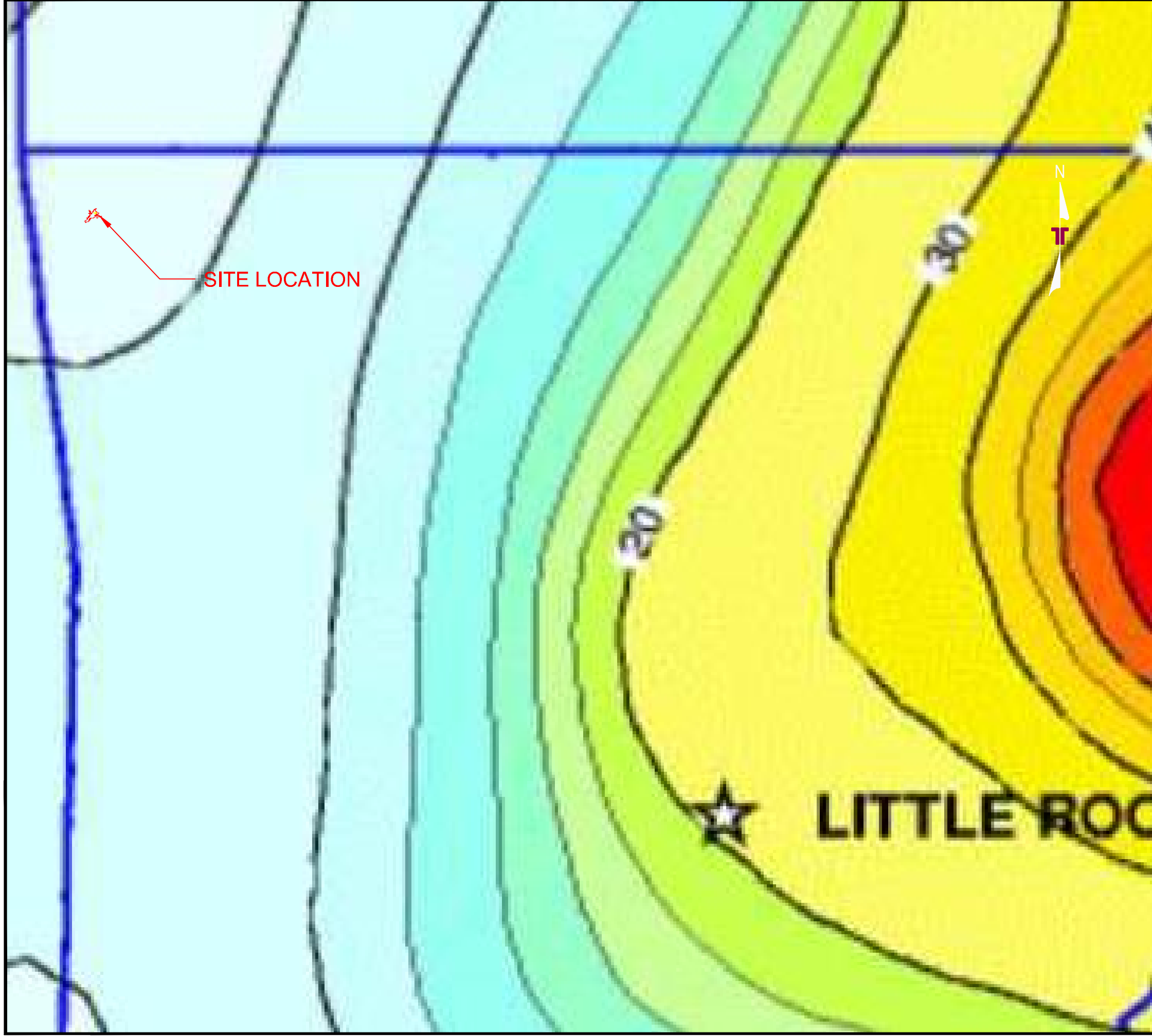
GENTRY

Terracon

Consulting Engineers and Scientists

BRYANT, AR 72022
 PH. (501) 847-9292
 FAX. (501) 847-9210

REV.	DATE	BY	DESCRIPTION



REV	DATE	BY	DESCRIPTION

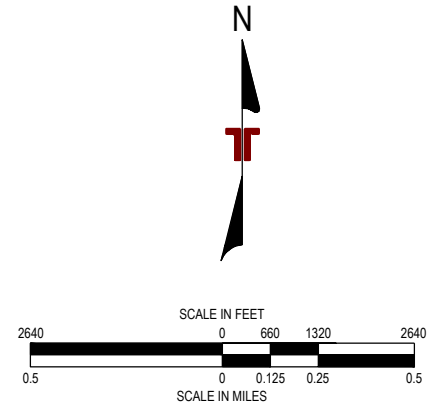
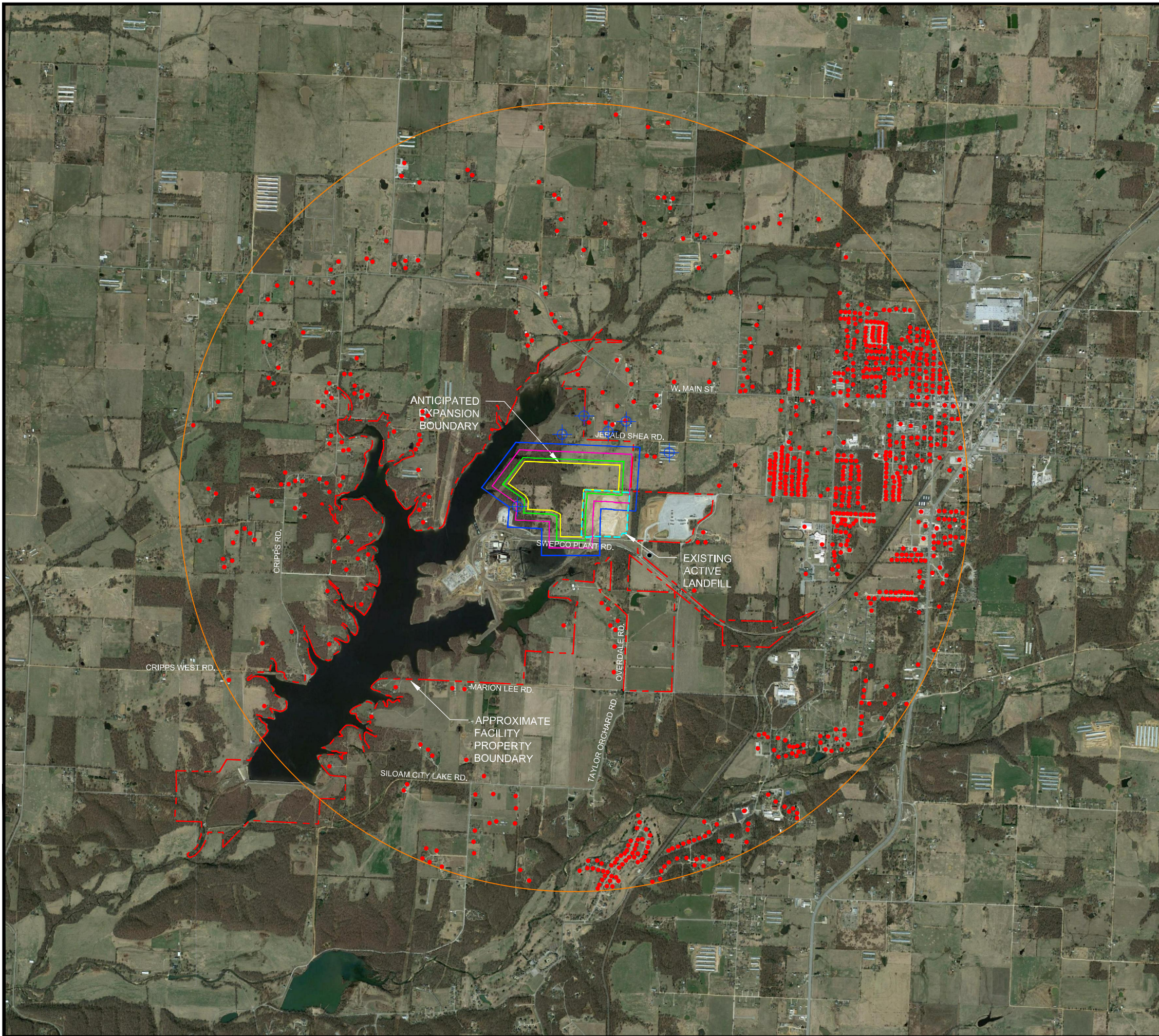
Terracon
 Consulting Engineers and Scientists
 25809 I-30 SOUTH
 PH. (501) 847-9292

BRYANT, AR 72022
 FAX. (501) 847-9210

NEARBY SEISMIC IMPACT ZONES
 PROPOSED LANDFILL LATERAL EXPANSION
AMERICAN ELECTRIC POWER
 SWEP/CO/FLINT CREEK POWER PLANT
 GENTRY ARKANSAS

FIGURE 6

DESIGNED BY:	TLB
DRAWN BY:	TLB
APPROV. BY:	DCM
SCALE:	SEE BARSCALE
DATE:	2-12/2016
JOB NO.:	216-001-35157156
ACAD NO.:	007
SHEET NO.:	007 OF



LEGEND:








-  PROPERTY BOUNDARY
-  TWO-MILE RADIUS
-  100-FOOT BUFFER ZONE
-  300-FOOT BUFFER ZONE
-  500-FOOT BUFFER ZONE
-  DWELLINGS
-  WATER WELLS

FIGURE 7

DESIGNED BY:	TLB
DRAWN BY:	TLB
APPROV. BY:	DCM
SCALE:	SEE BARS/SCALE
DATE:	03/7/16
JOB NO.:	216-001-35157156
ACAD NO.:	012
SHEET NO.:	OF

SURROUNDING LAND USE

PROPOSED LANDFILL LATERAL EXPANSION
AMERICAN ELECTRIC POWER
 SWEPco/FLINT CREEK POWER PLANT LANDFILL
 GENTRY ARKANSAS

Terracon
 Consulting Engineers and Scientists

25809 I-30 SOUTH
 PH. (601) 847-9292

BRYANT, AR 72022
 FAX. (601) 847-9210

REV.	DATE	BY	DESCRIPTION

**TABLE 1 - Landfill Wells
AEP – Flint Creek
Class 3N Landfill
Groundwater Elevations (FMSL)**

Well	B-1B	B-2	B-4	B-5	B-6	B-7A	B-8	B-9	B-10	B-11	B-12	B-13
Date												
11/1/1994	1136.36	1135.22	1136.70	1137.53								
4/27/1995	1144.40	1147.24	1148.62	1147.29								
11/3/1995	1138.12	1137.71	1137.11	1138.79								
5/7/1996	1137.94	1137.77	1138.21	1138.96								
11/7/1996	1135.72	1142.14	1147.28	1141.58								
5/1/1997	1145.86	1144.76	1145.45	1146.15								
12/9/1997	1140.96	1142.40	1144.41	1142.58								
5/28/1998												
11/18/1998	1141.95	1142.93	1143.55	1144.45								
5/12/1999	1147.91	1149.13	1150.53	1150.36								
11/10/1999	1138.18	1138.39	1138.70	1139.39								
5/10/2000	1138.54	1139.74	1142.03	1139.98								
11/21/2000	1141.76	1142.67	1143.30	1144.04								
5/16/2001	1142.22	1141.77	1142.18	1142.90								
11/14/2001	1138.94	1138.90	1139.18	1140.36	1137.73							
5/22/2002	1145.47	1146.60	1147.79	1147.34	1145.38							
11/19/2002	1139.02	1140.34	1140.60	1140.41	1139.34							
5/20/2003	1141.98	1144.86	1147.27	1143.72	1144.09							
11/19/2003	1137.35	1138.21	1139.16	1138.84	1137.47							
5/11/2004	1151.26	1152.99	1154.03	1152.90	1151.85							
11/16/2004	1142.87	1143.88	1144.25	1144.84	1142.72							
5/25/2005	1142.22	1142.28	1143.00	1143.02	1141.16							
8/17/2005	1140.84	1141.69	1142.28	1142.19	1140.71							
11/30/2005	1139.00	1139.52	1139.68	1140.17	1134.49							
2/15/2006	1137.43	1137.87	1138.02	1138.58	1136.87							
5/17/2006	1141.19	1142.77	1143.23	1143.27	1141.55							
8/24/2006	1139.80	1141.15	1141.71	1141.19	1140.24							
12/7/2006	1141.49	1143.74	1144.50	1143.70	1142.62							
2/20/2007	1147.28	1148.15	1149.01	1149.09	1146.98							
5/23/2007	1143.35	1144.34	1144.76	1145.15	1143.15	1143.24	1144.28					
8/22/2007	1141.04	1141.88	1142.08	1142.40	1140.82	1141.32	1141.93					
1/23/2008				1147.28								
5/14/2008	1150.64	1150.15	1150.61	1151.00	1148.90	1151.29	1149.62					
10/8/2008	1148.33	1148.48	1148.94	1149.35	1147.28	1148.51	1148.19					
1/7/2009		1144.64										
4/14/2009	1148.31	1150.36	1152.18	1150.22	1149.59	1148.18	1149.85					
7/29/2009	1145.69	1145.77	1146.07	1146.63	1144.66	1146.21						
8/21/2009												
10/28/2009	1149.07	1152.29	1154.20	1152.35	1151.21	1148.65	1151.74					
1/27/2010	1144.64	1145.90	1146.69	1145.75	1144.93	1145.10	1145.68					
5/18/2010	1146.76	1147.76	1149.38	1148.24	1146.93	1147.24	1147.45					
8/25/2010	1144.18	1144.80	1145.00	1144.91	1143.74	1144.60	1144.80					
11/30/2010	1141.62	1142.27	1142.57	1143.04	1141.33	1142.21	1142.30					
2/24/2011	1142.81	1144.86	1145.00	1145.12	1143.81	1153.48	1144.98					
5/25/2011	1149.84	1154.68	1156.89	1152.07	1154.14	1150.77	1151.07					
7/20/2011	1145.83	1145.85	1146.10	1146.59	1144.78	1146.46	1145.91	1152.77				
10/26/2011	1144.35	1145.40	1145.49	1146.03	1144.23	1144.54	1145.59	1153.02				
1/24/2012	1145.75	1146.02	1146.30	1146.72	1144.90	1146.07	1146.03	1158.63				
4/25/2012	1146.88	1146.67	1147.08	1147.66	1145.47	1147.56	1146.71	1153.85				
7/31/2012	1143.69	1144.37	1144.49	1144.79	1143.36	1144.11	1144.44	1151.94				
10/24/2012	1142.76	1143.57	1143.67	1144.12	1142.58	1143.19	plugged	1151.94				
1/29/2013	1141	1141.52	1141.58	1142.16	1140.53	1141.93		1151.5				
4/23/2013	1148.99	1151.21	1152.51	1150.86	1150.37	1148.4		1156.7				
8/8/2013	1145.09	1146.17	1146.3	1146.95	1144.18	1145.68		1154.32				
10/21/2013	1143.89	1144.73	1144.86	1145.51	1143.83	1144.38		1152.69				
1/29/2014	1145.83	1146.16	1146.69	1146.93	1145.04	1146.28		1154.99				
4/30/2014	1143.02	1143.97	1144.35	1144.71	1142.45	1143.53		1155.35				
7/23/2014	1145.35	1146.31	1147.16	1146.54	1144.89	1146.45		1154.91				
10/16/2014	1145.83	1148.97	1151.46	1149.61	1148.8	1145.6		1156.49				
1/20/2015	1145.75	1147.13	1147.51	1147.66	1145.92	1146.62		1155.21				
4/28/2015	1147.25	1147.75	1151.24	1148.49	1148.19	1146.07		1155.9				
7/22/2015	1151.29	1152.61	1153.59	1151.97	1151.4	1152.14		1156.14				
10/20/2015	1143.53	1144.05	1151.31	1143.66	1142.97	1144.16		1152.49				
3/15/2016	1148.29	1141.42	1148.02	1147.21	1145.5	1147.34		1155.39	1149.37	1145.67	1148.13	1147.66
Seasonal High	1151.29	1154.68	1156.89	1152.90	1154.14	1153.48	1151.74	1158.63	1149.37	1145.67	1148.13	1147.66

B-3 is not in use as a monitoring well.

B-9 was renamed from well NE-8, groundwater elevation data previous to 3/15/2016 was taken from NE-8.

APPENDIX A
Pre-application Form

INSTRUCTIONS AND PROCEDURES FOR SUBMITTING A PRE-APPLICATION FOR A SOLID WASTE DISPOSAL FACILITY

**ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
SOLID WASTE MANAGEMENT DIVISION
5301 NORTHSHORE DRIVE
NORTH LITTLE ROCK, ARKANSAS 72118
ENFORCEMENT: (501) 682-0595
PROGRAMS: (501) 682-0594
TECHNICAL: (501) 682-0601
FAX: (501) 682-0611**

Authority: Act 237 of the 1971 Arkansas Legislative Session, as amended, makes it unlawful to construct, install, alter, modify, use, or operate any solid waste disposal facility or disposal site without a permit from the Department. Regulation 22 requires that applicants submit a pre-application for a proposed facility prior to submitting a permit application.

GENERAL INSTRUCTIONS

1. Before completing an application or pre-application for a disposal facility, the applicant should familiarize themselves with the statutory and regulatory requirements for permitting, constructing and operating the facility. This would include Arkansas Code Annotated §§ 8-6-201 et. seq., Arkansas Pollution Control and Ecology Commission, Regulations 8, 9, and 22, as well as other applicable federal, state, and local rules and regulations.

2. A pre-application differs from an application in that it primarily provides an opportunity for the Department and the applicant to investigate the suitability of the site for a proposed use and identify any limitations of the site for that use before the applicant invests in costly studies and preparation of permit application documents.

3. Completed applications shall be mailed to:

Arkansas Department of Environmental Quality
Attn: Solid Waste Management Division
5301 Northshore Drive
North Little Rock, AR 72118

Inquiries may be directed by telephone to (501) 682-0601 or by fax to 682-0611.

4. A person may not commence construction of a facility until the Director has issued a final permit decision.

5. Pre-applications that are not administratively complete (see below) may not be accepted by the Department.

PROCEDURAL INFORMATION

1. The applicant may request a meeting with the Department prior to submitting a pre-application to discuss technical and procedural requirements and other matters.
2. If the Department determines that the pre-application is not administratively complete, it will notify the applicant of its findings and may, at its option, return the pre-application for revision.
3. The Department shall schedule a public meeting at a suitable location near the proposed solid waste disposal site for applicants submitting an administratively complete Class 1 or 3C pre-application. The primary purpose of the public meeting will be to inform and answer questions from concerned citizens. Public meetings may be scheduled in a similar manner for other disposal facilities at the discretion of the Department.
4. For all disposal facilities, the Department will schedule a preliminary site investigation with the applicant to determine if the site is suitable for development. The Department may notify interested local, regional, state, and federal authorities to take part in or attend the investigation.
5. The applicant will bear the burden of furnishing all necessary equipment and manpower to gain access to the site, dig test pits, and otherwise complete the preliminary site investigation.
6. The Department shall provide its findings and results of the preliminary site investigation to the applicant. Any site limitations identified in the preliminary site investigation report shall be addressed in any subsequently submitted permit application.
7. The Director may make a decision to deny the permit for the facility based on location restrictions, the pre-application, the findings of the preliminary site investigation, preliminary geotechnical report, the applicant's response to the preliminary site investigation and other relevant data. A decision to deny the permit will be announced in accordance with the requirements of Regulation 8 and will be appealable to the Commission in accordance with the provisions of that regulation.

PRE-APPLICATION INSTRUCTIONS

Part I. Facility Type - The applicant should check the class of facility for which the pre-application is being submitted. The applicant may check more than one box if the pre-application includes more than one class of disposal, such as where a Class 1 landfill is proposed in combination with a Class 4 landfill. Additional pre-application fee will be required if more than one box is checked.

Parts II, III & IV. - Facility, Applicant, Owner - The name and address of the facility, applicant, and owner must be provided. The applicant must be the owner or operator of the facility and if the applicant does not perform both roles, the other party also must be identified.

Part V. Site Location - The proposed site must be described both in terms of a legal description and location referenced to common highways or landmarks and provide the type of access from dedicated public roads. Any deeds, leases, easements, licenses, etc. demonstrating ownership or control or providing access to the site should be described and included as an attachment to the pre-application.

Such a description might contain the following type of information:

"3 miles south of Anytown, Arkansas on State Highway 4000, then east on Anywhere County Road 29 for 1 mile, to the second private drive on the north side of the road east of the Tri-County Water tank. The applicant has obtained a license to use this private drive to access the site which is located approximately 1/4 mile down this private road."

Information on the site and area drainage characteristics should also be provided.

Such a description might contain the following type of information:

"Drainage across the site is generally toward the north and northeast, emptying into an unnamed tributary to Pristine Creek which runs southeast to northwest approximately 1/2 mile from the northern boundary of the site. Pristine Creek eventually empties into Clearwater River approximately 2 miles northwest of the site."

The applicant should provide information on the number of houses or dwellings within 2 miles of the site and how that information was determined. In most cases, this data can be determined from available maps and well logs, and verified by a field survey. Information on the nature and type of waste should also be provided. This information will usually include origins, amounts, seasonal variations, intermediate processing steps, potential end markets, and other data that is relevant to the proposed facility.

Part VI. Required Attachments - The required attachments are those necessary along with the properly completed pre-application form to be considered administratively complete. In order to provide for a timely, efficient review, it is recommended that these materials be submitted in an organized manner and indexed for easy reference.

All disposal facility pre-applications should include the following:

- Completed pre-application form;
- Pre-application fee in accordance with current fee schedule;
- Disclosure statement (Not required for governmental entities including federal, state, county, municipal, and regional solid waste authorities);
- A 7.5 minute quadrangle map showing the location of the facility property including disposal facility boundaries, area dwellings and water supplies;
- Documentation on whether the selected site is in conformance with the applicable airport safety, floodplain, wetlands, and separation distances location restrictions;
- Assurance in the form of a deed, lease, option, license, or other document that the permit applicant has the legal authority to enter the lands for purposes of performing site investigations and studies;
- Local authority and host community approval if required by Section 22.203, 22.204 or 22.205;
- A preliminary report providing data on site soil conditions, site and area geologic conditions, plus information on site and area hydrogeological conditions including area aquifers;
- Disposal facility pre-applications for other than a Class 3N facility should also include a Certificate of Need from the appropriate Regional Solid Waste District Management Board. Class 3N disposal facility pre-applications shall include the required notification to the Regional Solid Waste Management Board.
- Notification to Regional Solid Waste Management District and to local city or county with jurisdiction over the proposed site if required and any required responses from zoning commissions, planning commissions or other land-use authorities as required by 22.203, 22.204 or local law or ordinance.
- Proof of ownership of the facility or proof of ownership and a property executed Right of Entry form from the property owner where the facility is located must be provided.

Part VII. Certification - The pre-application shall be signed by the applicant or an authorized person as defined in Section 22.301(h) and signed by the professional consultant as required by 22.301(i).

SOLID WASTE DISPOSAL FACILITY PRE-APPLICATION FORM

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
SOLID WASTE MANAGEMENT DIVISION
5301 NORTHSHORE DRIVE
NORTH LITTLE ROCK, AR 72118

Pursuant to Section 22.302 of Regulation 22, Solid Waste Management, applicants for new solid waste disposal facilities as well as expansions to the currently permitted disposal area shall prepare and submit a pre-application before preparing detailed design drawings, narratives, or extensive geologic investigations.

I. FACILITY TYPE

(Check the one that applies)

SOLID WASTE DISPOSAL FACILITY

_____ Class 1 _____ Class 4 _____ Class 3C X Class 3N _____ Class 3T

II. FACILITY IDENTIFICATION

Facility Name: SWEPSCO - Flint Creek Power Plant (Permit No. 0273-S3N-R2)

Facility Location: Flint Creek Power Plant

Site Manager: Mr. Carl F. Handley II

Street Address: 21797 SWEPSCO Road

City: Gentry State: AR Zip: 72734

County: Benton Telephone Number: 479.444.4711 Fax Number: 479.444.4719

Section/Township/Range: Section 5 & 8, T18N, R33W, Benton County, Arkansas

Longitude: 94°31'16.02"W Latitude: 36°15'27.16"N (at Facility Entrance)

Facility Is: New _____ Existing X

III. APPLICANT IDENTIFICATION

Name of Applicant: Southwester Electric Power Plant (SWEPCO)

Address of Applicant: 21797 SWEPCO Road

City: Gentry State: AR Zip: 72734

Telephone Number: 479.444.4700 Fax Number: _____

Is the applicant the Property Owner? Yes No If no, please fill out Section IV.

IV. OWNER IDENTIFICATION

Name of Property Owner: Southwester Electric Power Company (SWEPCO)

Address of Property Owner: 428 Travis

City: Shreveport State: LA Zip: 71101

Property Owner Telephone Number: _____ Fax Number: _____

V. SITE LOCATION

Location of property referenced to known landmarks describing access roads to site: _____

The facility is located at 21797 SWEPCO Road. The entrance is located on SWEPCO Road that is located off of Pioneer Lane.

Describe site and area drainage: _____

The facility currently has stormwater controls in place that drain the storm water to the west and southwest.

Houses/Dwellings within 2 miles of site & method used to determine: _____

Utilizing satellite imagery, approximately 900 houses/dwellings were found.

Water supplies within 2 miles of site & method used to determine: _____

Approximately 124 water wells were found within 2 miles of the site utilizing a USGS well search.

Describe the nature and type of waste the facility will dispose: _____

The authorized waste stream for this facility includes coal ash: coal ash includes fly ash, economizer ash, bottom ash, bottom ash dredged from the ash pond, slagged ash; flue-gas desulfurization (FGD) waste; waste lime; non-hazardous grit blast; dredge from ash ponds; solids from landfill leachate pond, contact water pond and truck wash; solids from drainage ditches and sumps; ecology pit solids; coal mill rejects; waste activated carbon; waste coal; refractory materials; water treatment system wastes; construction and demolition debris; cleaning waste from precipitator, boiler and flue gas duct cleaning; cleaning waste from dry flue gas desulfurization, activated carbon injection, bag-house and flue gas system cleaning; scrubber system containment solids; air drier desiccant.

VI. REQUIRED ATTACHMENTS

- Completed pre-application form; Appendix A
- Pre-application fee in accordance with current fee schedule; Attached
- Disclosure statement (Not required for governmental entities including federal, state, county, municipal, and regional solid waste authorities); Appendix F
- A 7.5 minute quadrangle map showing the location of the facility property including disposal facility boundaries, area dwellings and water supplies; Figure 2
- Documentation on whether the selected site is in conformance with the applicable airport safety, floodplain, wetlands, and separation distances location restrictions; Figures 3, 4, 5, & 7
- Assurance in the form of a deed, lease, option, license, or other document that the permit applicant has the legal authority to enter the lands for purposes of performing site investigations and studies; Appendix E
- Local authority and host community approval if required by Section 22.203, 22.204 or 22.205; Appendix D
- A preliminary report providing data on site soil conditions, site and area geologic conditions, plus information on site and area hydrogeological conditions including area aquifers; Appendix B
- Disposal facility pre-applications for other than a Class 3N facility should also include a Certificate of Need from the appropriate Regional Solid Waste District Management Board. Class 3N disposal facility pre-applications shall include the required notification to the Regional Solid Waste Management Board. Appendix D
- Notification to Regional Solid Waste Management District and to local city or county with jurisdiction over the proposed site if required and any required responses from zoning commissions, planning commissions or other land-use authorities as required by 22.203, 22.204 or local law or ordinance. Appendix D
- Proof of ownership of the facility or proof of ownership and a property executed Right of Entry form from the property owner where the facility is located must be provided. Appendix E

APPENDIX B
Geotechnical Information



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Benton County, Arkansas**

AEP - Flint Creek Power Plant



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<http://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the

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individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

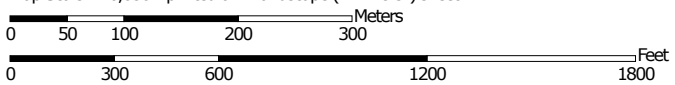
Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map




Map Scale: 1:6,630 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)




















Soils





 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Benton County, Arkansas
 Survey Area Data: Version 13, Sep 28, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 19, 2010—Oct 30, 2010

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Benton County, Arkansas (AR007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BtC	Britwater gravelly silt loam, 3 to 8 percent slopes	1.8	0.8%
CnB	Captina silt loam, 1 to 3 percent slopes	73.5	33.3%
Cs	Cherokee silt loam	7.5	3.4%
CvF	Clarksville extremely gravelly silt loam, 12 to 50 percent slopes	24.7	11.2%
Eg	Elsah soils, occasionally and frequently flooded	3.0	1.4%
LrC	Linker fine sandy loam, 3 to 8 percent slopes	57.3	26.0%
NfC	Nixa very gravelly silt loam, 3 to 8 percent slopes	27.5	12.5%
NoD	Noark very gravelly silt loam, 8 to 12 percent slopes	1.4	0.6%
PeC	Peridge silt loam, 3 to 8 percent slopes	12.0	5.4%
Se	Secesh gravelly silt loam, occasionally flooded	3.6	1.6%
TsC	Tonti gravelly silt loam, 3 to 8 percent slopes	4.3	1.9%
W	Water	3.9	1.8%
Totals for Area of Interest		220.5	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

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Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be

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made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Benton County, Arkansas

BtC—Britwater gravelly silt loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2rt20

Elevation: 500 to 1,500 feet

Mean annual precipitation: 35 to 52 inches

Mean annual air temperature: 45 to 70 degrees F

Frost-free period: 160 to 255 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Britwater and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Britwater

Setting

Landform: Stream terraces

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Loamy alluvium derived from cherty limestone

Typical profile

Ap - 0 to 6 inches: gravelly silt loam

Bt1 - 6 to 22 inches: gravelly silty clay loam

Bt2 - 22 to 60 inches: very gravelly silty clay loam

Bt3 - 60 to 80 inches: very gravelly silty clay

Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Moderate (about 7.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: Loamy Terrace Forest (F116AY034MO)

Minor Components

Clarksville

Percent of map unit: 3 percent

Landform: Hills

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Landform position (three-dimensional): Crest
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: Low-Base Chert Upland Woodland (F116AY012MO)

Razort

Percent of map unit: 2 percent
Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Loamy Terrace Forest (F116AY034MO)

CnB—Captina silt loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2rk3x
Elevation: 800 to 1,590 feet
Mean annual precipitation: 39 to 49 inches
Mean annual air temperature: 54 to 59 degrees F
Frost-free period: 172 to 232 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Captina and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Captina

Setting

Landform: Interfluves
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loess over pedisediment over residuum weathered from cherty limestone

Typical profile

Ap - 0 to 5 inches: silt loam
Bt1 - 5 to 25 inches: silty clay loam
2Btx - 25 to 50 inches: very gravelly silt loam
3Bt2 - 50 to 79 inches: gravelly clay

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: 20 to 36 inches to fragipan
Natural drainage class: Moderately well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

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Depth to water table: About 16 to 32 inches

Frequency of flooding: None

Frequency of ponding: None

Salinity, maximum in profile: Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)

Available water storage in profile: Low (about 5.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3s

Hydrologic Soil Group: C/D

Ecological site: Fragipan Upland Woodland (F116AY004MO)

Other vegetative classification: Mixed/Transitional (Mixed Native Vegetation)

Minor Components

Needleye

Percent of map unit: 5 percent

Landform: Interfluves

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Interfluve

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: Fragipan Upland Woodland (F116BY001MO)

Other vegetative classification: Trees/Timber (Woody Vegetation)

Nixa

Percent of map unit: 5 percent

Landform: Interfluves

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Interfluve

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: Low-Base Chert Upland Woodland (F116BY004MO), Low-Base Chert Upland Woodland (F116AY012MO)

Other vegetative classification: Trees/Timber (Woody Vegetation)

Cs—Cherokee silt loam

Map Unit Setting

National map unit symbol: llym

Mean annual precipitation: 42 to 51 inches

Mean annual air temperature: 47 to 70 degrees F

Frost-free period: 183 to 239 days

Farmland classification: Prime farmland if drained

Map Unit Composition

Cherokee and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cherokee

Setting

Landform: Depressions
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Concave, convex
Across-slope shape: Convex, linear
Parent material: Silty and clayey pedisegment

Typical profile

A - 0 to 14 inches: silt loam
Btg1 - 14 to 54 inches: clay
Btg2 - 54 to 66 inches: silty clay loam
BC - 66 to 84 inches: clay

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: 11 to 17 inches to abrupt textural change
Natural drainage class: Somewhat poorly drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 3.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: D

Minor Components

Aqualfs

Percent of map unit: 5 percent
Landform: Depressions
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Concave, convex
Across-slope shape: Convex, linear

Captina

Percent of map unit: 5 percent
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Convex
Across-slope shape: Linear

Carytown

Percent of map unit: 5 percent
Landform: Stream terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, tread
Down-slope shape: Convex
Across-slope shape: Linear

CvF—Clarksville extremely gravelly silt loam, 12 to 50 percent slopes

Map Unit Setting

National map unit symbol: lynn
Elevation: 700 to 1,300 feet
Mean annual precipitation: 42 to 51 inches
Mean annual air temperature: 47 to 70 degrees F
Frost-free period: 183 to 239 days
Farmland classification: Not prime farmland

Map Unit Composition

Clarksville and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Clarksville

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Linear, convex
Across-slope shape: Convex, linear
Parent material: Clayey residuum weathered from cherty limestone

Typical profile

A - 0 to 24 inches: extremely gravelly silt loam
Bt - 24 to 72 inches: extremely gravelly silt loam

Properties and qualities

Slope: 12 to 50 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Excessively drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: Low-Base Chert Protected Backslope Woodland (F116AY013MO),
Low-Base Chert Exposed Backslope Woodland (F116AY049MO)

Eg—Elsah soils, occasionally and frequently flooded

Map Unit Setting

National map unit symbol: llyp
Elevation: 340 to 1,500 feet
Mean annual precipitation: 42 to 51 inches
Mean annual air temperature: 47 to 70 degrees F
Frost-free period: 183 to 239 days
Farmland classification: Not prime farmland

Map Unit Composition

Elsah, occasional, and similar soils: 70 percent
Elsah, frequent, and similar soils: 25 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Elsah, Occasional

Setting

Landform: Flood plains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Gravelly alluvium

Typical profile

A - 0 to 7 inches: extremely gravelly silt loam
C - 7 to 60 inches: extremely gravelly silt loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat excessively drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Available water storage in profile: Low (about 5.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: B
Ecological site: Sandy/Gravelly Floodplain Forest (F116AY042MO)

Description of Elsah, Frequent

Setting

Landform: Flood plains

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Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Gravelly alluvium

Typical profile

A - 0 to 7 inches: extremely gravelly silt loam
C - 7 to 60 inches: extremely gravelly silt loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat excessively drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Available water storage in profile: Low (about 5.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 5w
Hydrologic Soil Group: B
Ecological site: Sandy/Gravelly Floodplain Forest (F116AY042MO)

Minor Components

Aquents

Percent of map unit: 5 percent
Landform: Depressions
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Concave, convex
Across-slope shape: Convex, linear

LrC—Linker fine sandy loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: lyz0
Elevation: 500 to 2,800 feet
Mean annual precipitation: 42 to 51 inches
Mean annual air temperature: 47 to 70 degrees F
Frost-free period: 183 to 239 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Linker and similar soils: 100 percent

Custom Soil Resource Report

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Linker

Setting

Landform: Hillsides or mountainsides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, head slope
Down-slope shape: Concave, convex
Across-slope shape: Linear
Parent material: Loamy residuum weathered from sandstone and siltstone

Typical profile

Ap - 0 to 6 inches: fine sandy loam
Bt - 6 to 19 inches: loam
BCt - 19 to 26 inches: very gravelly sandy clay loam
R - 26 to 30 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 3.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C

NfC—Nixa very gravelly silt loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2rk3t
Elevation: 920 to 1,530 feet
Mean annual precipitation: 39 to 49 inches
Mean annual air temperature: 54 to 59 degrees F
Frost-free period: 172 to 232 days
Farmland classification: Not prime farmland

Map Unit Composition

Nixa and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Custom Soil Resource Report

Description of Nixa

Setting

Landform: Hillslopes

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Slope alluvium over pedisegment over residuum weathered from limestone

Typical profile

O_i - 0 to 1 inches: slightly decomposed plant material

A - 1 to 3 inches: very gravelly silt loam

E - 3 to 10 inches: very gravelly silt loam

BE - 10 to 20 inches: very gravelly silt loam

2B_{tx} - 20 to 43 inches: very gravelly silt loam

3B_t - 43 to 80 inches: very gravelly clay

Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: 11 to 30 inches to fragipan

Natural drainage class: Moderately well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (K_{sat}): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: About 9 to 28 inches

Frequency of flooding: None

Frequency of ponding: None

Salinity, maximum in profile: Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)

Available water storage in profile: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4s

Hydrologic Soil Group: D

Ecological site: Low-Base Chert Upland Woodland (F116BY004MO), Low-Base Chert Upland Woodland (F116AY012MO)

Other vegetative classification: Trees/Timber (Woody Vegetation)

Minor Components

Bendavis

Percent of map unit: 10 percent

Landform: Interfluves

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Interfluve

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: Low-Base Chert Protected Backslope Woodland (F116AY013MO), Low-Base Chert Exposed Backslope Woodland (F116AY049MO)

Other vegetative classification: Trees/Timber (Woody Vegetation)

NoD—Noark very gravelly silt loam, 8 to 12 percent slopes

Map Unit Setting

National map unit symbol: 2t7dh
Elevation: 330 to 1,640 feet
Mean annual precipitation: 39 to 49 inches
Mean annual air temperature: 54 to 59 degrees F
Frost-free period: 172 to 232 days
Farmland classification: Not prime farmland

Map Unit Composition

Noark and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Noark

Setting

Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Slope alluvium over residuum weathered from limestone

Typical profile

O_i - 0 to 1 inches: slightly decomposed plant material
A - 1 to 4 inches: very gravelly silt loam
E - 4 to 12 inches: very gravelly silt loam
BE - 12 to 22 inches: very gravelly silty clay loam
2B_t - 22 to 80 inches: very gravelly silty clay

Properties and qualities

Slope: 8 to 12 percent
Percent of area covered with surface fragments: 0.0 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (K_{sat}): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)
Available water storage in profile: Low (about 4.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C

Custom Soil Resource Report

Ecological site: Low-Base Chert Protected Backslope Woodland (F116BY010MO),
Low-Base Chert Upland Woodland (F116AY012MO), Low-Base Chert Exposed
Backslope Woodland (F116BY033MO)
Other vegetative classification: Trees/Timber (Woody Vegetation)

Minor Components

Bendavis

Percent of map unit: 5 percent
Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Head slope
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Low-Base Chert Protected Backslope Woodland (F116AY013MO),
Low-Base Chert Exposed Backslope Woodland (F116AY049MO)
Other vegetative classification: Trees/Timber (Woody Vegetation)

PeC—Peridge silt loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: lyzc
Elevation: 1,000 to 1,500 feet
Mean annual precipitation: 42 to 51 inches
Mean annual air temperature: 47 to 70 degrees F
Frost-free period: 183 to 239 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Peridge and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Peridge

Setting

Landform: Stream terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from limestone, sandstone, and shale

Typical profile

Ap - 0 to 9 inches: silt loam
Bt1 - 9 to 42 inches: silty clay loam
Bt2 - 42 to 54 inches: gravelly silty clay loam
Bt3 - 54 to 60 inches: gravelly silty clay
Bt4 - 60 to 74 inches: silty clay

Properties and qualities

Slope: 3 to 8 percent

Custom Soil Resource Report

Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: Loamy Footslope Forest (F116AY032MO)

Se—Secesh gravelly silt loam, occasionally flooded

Map Unit Setting

National map unit symbol: lyzd
Mean annual precipitation: 42 to 51 inches
Mean annual air temperature: 47 to 70 degrees F
Frost-free period: 183 to 239 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Secesh and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Secesh

Setting

Landform: Flood plains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Gravelly loamy alluvium

Typical profile

A - 0 to 10 inches: silt loam
Bt1 - 10 to 24 inches: gravelly silt loam
Bt2 - 24 to 55 inches: very gravelly silt loam
Bt3 - 55 to 74 inches: extremely gravelly silt loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Low

Custom Soil Resource Report

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: Occasional

Frequency of ponding: None

Available water storage in profile: Moderate (about 8.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: B

Ecological site: Loamy Terrace Forest (F116AY034MO)

Minor Components

Aqualfs

Percent of map unit: 5 percent

Landform: Depressions

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Mountainflank

Down-slope shape: Concave, convex

Across-slope shape: Convex, linear

TsC—Tonti gravelly silt loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: lyzk

Mean annual precipitation: 42 to 51 inches

Mean annual air temperature: 47 to 70 degrees F

Frost-free period: 183 to 239 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Tonti and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tonti

Setting

Landform: Hills

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Mountainflank, interfluve

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Loamy residuum weathered from cherty limestone

Typical profile

Ap - 0 to 6 inches: gravelly silt loam

Bt - 6 to 19 inches: gravelly silty clay loam

Btx1 - 19 to 29 inches: gravelly silty clay loam

Btx2 - 29 to 42 inches: extremely gravelly silty clay loam

Custom Soil Resource Report

R - 42 to 44 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: 15 to 23 inches to fragipan; 40 to 60 inches to lithic bedrock

Natural drainage class: Moderately well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Low (about 3.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: D

Ecological site: Fragipan Upland Woodland (F116AY004MO)

W—Water

Map Unit Composition

Water: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Water

Setting

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Mountainflank

Down-slope shape: Convex

Across-slope shape: Linear

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APPENDIX C
Well Documentation

Flint Creek Power Plant - Permit Modification Pre-Application
Nearby Water Wells - Two Mile Radius

WELL NUMBER	WELL ID	DATE WELL	CONTRACTOR	CO. NAME	DRILLER ID	DRILLER NAME	INSTALLER	INSTALL_NM	WELL DEPTH (FT)	USE CD	LONGITUDE	LATITUDE	YIELD (GPM)
1	913031361343	21-Oct-03	1454	SUMMERS WELL DRILLING	2634	TIMOTHY SUMMERS			550		94-30-31	36-13-43	12
2	943156361657A	14-Mar-01	1454	SUMMERS WELL DRILLING	2634	TIMOTHY SUMMERS			463	DO	94-31-56	36-16-57	5
3	943156361657B	15-Mar-01	1317	MCREYNOLDS WATER SYSTEMS			4329	RICK MCREYNOLDS	463	DO	94-31-56	36-16-57	5
4	943157361450	30-Sep-98	1042	GLENN SMITH WELL DRILLING	2189				443	DO	94-31-57	36-14-50	8
5	943208361413	3-Apr-95	1042	GLENN SMITH WELL DRILLING	2189				163	DO	94-32-08	36-14-13	15
6	943210361460	12-Jan-04	1454	SUMMERS WELL DRILLING	2634	TIMOTHY SUMMERS			130		94-32-10	36-14-60	25
7	943210361510	3-Jul-91	1196	DRILLERS INC.	2172	WALTER MALONEY			830		94-32-10	36-15-10	
8	943211361614	28-May-91	1196	DRILLERS INC.	2172	WALTER MALONEY			529		94-32-11	36-16-14	
9	943213361516	29-Feb-00	1454	SUMMERS WELL DRILLING	2189				523	DO	94-32-13	36-15-16	15
10	943035361740	18-Jun-99	1315	BOB WADE DRILLING CO.	2419	EDWARD MAGELKY			597	DO	94-30-35	36-17-40	10
11	943039361704	10-Sep-91	1042	GLENN SMITH WELL DRILLING	2189				503		94-30-39	36-17-04	
12	943039361705	13-Nov-91	1196	DRILLERS INC.	2172	WALTER MALONEY			578		94-30-39	36-17-05	
13	943039361705A	13-Nov-91	1196	DRILLERS INC.	2172	WALTER MALONEY			578	DO	94-30-39	36-17-05	2
14	943040361413	21-Aug-96	1042	GLENN SMITH WELL DRILLING	2189				383	DO	94-30-40	36-14-13	20
15	943043361423	1-Jun-01	1315	BOB WADE DRILLING CO.	2419	EDWARD MAGELKY			495	DO	94-30-43	36-14-23	10
16	943043361648	28-Apr-92	1042	GLENN SMITH WELL DRILLING	2189				563		94-30-43	36-16-48	
17	943043361648A	28-Apr-92	1042	GLENN SMITH WELL DRILLING	2189				563		94-30-43	36-16-48	
18	943044361425	24-Sep-98	1315	BOB WADE DRILLING CO.	2419	EDWARD MAGELKY			474	DO	94-30-44	36-14-25	6
19	943045361427	11-Aug-92	1042	GLENN SMITH WELL DRILLING	2189				423		94-30-45	36-14-27	

Flint Creek Power Plant - Permit Modification Pre-Application
Nearby Water Wells - Two Mile Radius

WELL NUMBER	WELL ID	DATE WELL	CONTRACTOR	CO. NAME	DRILLER ID	DRILLER NAME	INSTALLER	INSTALL_NM	WELL DEPTH (FT)	USE CD	LONGITUDE	LATITUDE	YIELD (GPM)
20	943045361428	24-Feb-92	1042	GLENN SMITH WELL DRILLING	2189				363		94-30-45	36-14-28	
21	943048361428	24-Sep-94	1196	DRILLERS INC.	2315	ROY HARMON			505	DO	94-30-48	36-14-28	6
22	942812361530	22-May-96	1196	DRILLERS INC.	2315	ROY HARMON			680	DO	94-28-12	36-15-30	20
23	942844361422	19-Aug-96	1042	GLENN SMITH WELL DRILLING	2189				583	DO	94-28-44	36-14-22	4
24	942949361353A	16-Jan-01	1315	BOB WADE DRILLING CO.	2119	A. MARRET			1315	DO	94-29-49	36-13-53	91
25	942955361620	24-May-96	1196	DRILLERS INC.	2315	ROY HARMON			505	DO	94-29-55	36-16-20	10
26	943216361551	24-Aug-94	1042	GLENN SMITH WELL DRILLING	2189				523	DO	94-32-16	36-15-51	12
27	943217361542	22-Aug-00	1454	SUMMERS WELL DRILLING	2634	TIMOTHY SUMMERS			263		94-32-17	36-15-42	3
28	943221361638	6-Mar-00	1196	DRILLERS INC.	2457	SAMUEL L. HARMON			505	LV	94-32-21	36-16-38	80
29	943222361631	1-Dec-95	1196	DRILLERS INC.	2612	CARL L. PETTY			455	DO	94-32-22	36-16-31	20
30	943223361626	15-Feb-02	1454	SUMMERS WELL DRILLING	2634	TIMOTHY SUMMERS			362		94-32-23	36-16-26	2
31	943223361634	10-Feb-99	1042	GLENN SMITH WELL DRILLING	2189				103	DO	94-32-23	36-16-34	25
32	943227361615	11-Aug-92	1196	DRILLERS INC.	2315	ROY HARMON			550		94-32-27	36-16-15	
33	943227361634	27-Nov-90	1196	DRILLERS INC.	2172	WALTER MALONEY			1145	DO	94-32-27	36-16-34	6000
34	943230361531	25-Feb-99	1196	DRILLERS INC.	2315	ROY HARMON			530	DO	94-32-30	36-15-31	6
35	943230361624	19-May-97	1042	GLENN SMITH WELL DRILLING	2189				283	DO	94-32-30	36-16-24	5
36	943230361654	27-Apr-99	1196	DRILLERS INC.	2315	ROY HARMON			380	DO	94-32-30	36-16-54	10
37	943234361548	23-Sep-99	1042	GLENN SMITH WELL DRILLING	2189				503	DO	94-32-34	36-15-48	9
38	943234361642	29-Apr-99	1196	DRILLERS INC.	2315	ROY HARMON			155	DO	94-32-34	36-16-42	6

Flint Creek Power Plant - Permit Modification Pre-Application
Nearby Water Wells - Two Mile Radius

WELL NUMBER	WELL ID	DATE WELL	CONTRACTOR	CO. NAME	DRILLER ID	DRILLER NAME	INSTALLER	INSTALL_NM	WELL DEPTH (FT)	USE CD	LONGITUDE	LATITUDE	YIELD (GPM)
39	943237361613	16-Jun-98	1042	GLENN SMITH WELL DRILLING	2189				67	DO	94-32-37	36-16-13	50
40	943241361540	24-Mar-95	1196	DRILLERS INC.	2315	ROY HARMON			155	DO	94-32-41	36-15-40	20
41	943241361543	16-Jun-94	1042	GLENN SMITH WELL DRILLING	2189				203	DO	94-32-41	36-15-43	7
42	943245361623	23-Dec-00	1454	SUMMERS WELL DRILLING	2639	CHARLES REEVES			543	DO	94-32-45	36-16-23	4
43	943050361554	5-Apr-99	1315	BOB WADE DRILLING CO.	2419	EDWARD MAGELKY			720	DO	94-30-50	36-15-54	4
44	943053361603	5-Oct-99	1042	GLENN SMITH WELL DRILLING	2189				223	DO	94-30-53	36-16-03	5
45	943056361416	18-Feb-94	1042	GLENN SMITH WELL DRILLING	2189				523	DO	94-30-56	36-14-16	8
46	943058361558	18-Feb-98	1042	GLENN SMITH WELL DRILLING	2189				583	DO	94-30-58	36-15-58	4
47	943089361423	21-Jan-03	1454	SUMMERS WELL DRILLING	2634	TIMOTHY SUMMERS			510		94-30-44	36-14-23	4
48	943101361641	3-Jul-01	1454	SUMMERS WELL DRILLING	2634	TIMOTHY SUMMERS			563	DO	94-31-01	36-16-41	6
49	943103361408	7-Mar-95	1315	BOB WADE DRILLING CO.	2185				270	DO	94-31-03	36-14-08	2
50	943105361553	13-May-05	1315	BOB WADE DRILLING CO.	2419	EDWARD MAGELKY			659		94-31-05	36-15-53	5
51	943107361446	29-Mar-91	1196	DRILLERS INC.	2172	WALTER MALONEY			454		94-31-07	36-14-46	
52	942853361654	9-Sep-03	1454	SUMMERS WELL DRILLING	2634	TIMOTHY SUMMERS			110		94-28-53	36-16-54	25
53	942855361634-1	16-Jan-96	1121	ANDERSON ENGINEERING CONSULTAN	2332	DENNIS YOUNG			15	MO	94-28-55	36-16-34	
54	942857361527	21-Jun-96	1042	GLENN SMITH WELL DRILLING	2189				663	DO	94-28-57	36-15-27	2
55	942857361638	16-Jan-96	1121	ANDERSON ENGINEERING CONSULTAN	2332	DENNIS YOUNG			15	MO	94-28-57	36-16-68	
56	942890361445	9-May-05	1196	DRILLERS INC.	2315	ROY HARMON	4690	ROY HARMON	595		94-28-59	36-14-45	5
57	943002361350	2-Sep-98	1043	DOUG VERSER WELL DRILLING	2189				503	DO	94-30-02	36-13-50	5

Flint Creek Power Plant - Permit Modification Pre-Application
Nearby Water Wells - Two Mile Radius

WELL NUMBER	WELL ID	DATE WELL	CONTRACTOR	CO. NAME	DRILLER ID	DRILLER NAME	INSTALLER	INSTALL_NM	WELL DEPTH (FT)	USE CD	LONGITUDE	LATITUDE	YIELD (GPM)
58	943126361419	9-Jul-02	1126	CAIN WELL DRILLING	2269	LARRY CAIN			150		94-31-26	36-14-19	7
59	943126361429	2-Apr-92	1315	BOB WADE DRILLING CO.	2063	BOB WADE			208		94-31-26	36-14-29	
60	943129361412	9-Jan-92	1042	GLENN SMITH WELL DRILLING	2189				163		94-31-29	36-14-12	
61	943130361710	3-Nov-97	1042	GLENN SMITH WELL DRILLING	2189				563	DO	94-31-30	36-17-10	15
62	943132361552	20-Jul-01	1454	SUMMERS WELL DRILLING	2634	TIMOTHY SUMMERS			200	DO	94-31-32	36-15-52	4
63	943137361548	22-Feb-00	1315	BOB WADE DRILLING CO.	2419	EDWARD MAGELKY			618	DO	94-31-37	36-15-48	4
64	943140361414	16-Jun-95	1196	DRILLERS INC.	2315	ROY HARMON			455	DO	94-31-40	36-14-14	6
65	943009361341	15-Oct-98	1042	GLENN SMITH WELL DRILLING	2189				563	DO	94-30-09	36-13-41	20
66	943012361352	11-Jul-94	1042	GLENN SMITH WELL DRILLING	2189				543	DO	94-30-12	36-13-52	5
67	943017361655	16-Dec-96	1196	DRILLERS INC.	2315	ROY HARMON			800	DO	94-30-17	36-16-55	7
68	943018361336	1-Oct-96	1042	GLENN SMITH WELL DRILLING	2189				563	DO	94-30-18	36-13-36	7
69	943018361720	30-Jul-94	1315	BOB WADE DRILLING CO.	2185				218	DO	94-30-18	36-17-20	15
70	943245361623A	20-Apr-01	1317	MCREYNOLDS WATER SYSTEMS			4329	RICK MCREYNOLDS	543	DO	94-32-45	36-16-23	4
71	943245361630	6-Apr-97	1196	DRILLERS INC.	2315	ROY HARMON			605	DO	94-32-45	36-16-30	6
72	943301361626	23-Mar-01	1315	BOB WADE DRILLING CO.	2419	EDWARD MAGELKY			782	DO	94-33-01	36-16-26	6
73	943307361637	7-Feb-98	1042	GLENN SMITH WELL DRILLING	2489	KODI ROBERTS			526	DO	94-33-07	36-16-37	6
74	943308361619	4-Oct-96	1042	GLENN SMITH WELL DRILLING	2189				523	DO	94-33-08	36-16-19	8
75	943310361635	21-May-93	1042	GLENN SMITH WELL DRILLING	2189				163	DO	94-33-10	36-16-35	15
76	943315361628	4-Jun-97	1042	GLENN SMITH WELL DRILLING	2189				303	DO	94-33-15	36-16-28	4

Flint Creek Power Plant - Permit Modification Pre-Application
Nearby Water Wells - Two Mile Radius

WELL NUMBER	WELL ID	DATE WELL	CONTRACTOR	CO. NAME	DRILLER ID	DRILLER NAME	INSTALLER	INSTALL_NM	WELL DEPTH (FT)	USE CD	LONGITUDE	LATITUDE	YIELD (GPM)
77	942900361430	22-Jul-05	1315	BOB WADE DRILLING CO.	2419	EDWARD MAGELKY			679		94-29-00	36-14-30	2
78	942907361429	26-Jun-99	1196	DRILLERS INC.	2457	SAMUEL L. HARMON			505	DO	94-29-07	36-14-29	5
79	942913361354	16-Mar-93	1042	GLENN SMITH WELL DRILLING	2189				323	DO	94-29-13	36-13-54	9
80	942917361353	21-Aug-91	1042	GLENN SMITH WELL DRILLING	2189				643		94-29-17	36-13-53	
81	942807361546	19-May-98	1042	GLENN SMITH WELL DRILLING	2189				543	DO	94-28-07	36-15-46	6
82	943140361445	27-Feb-99	1196	DRILLERS INC.	2315	ROY HARMON			105	DO	94-31-40	36-14-45	2
83	943144361542	16-Apr-91	1196	DRILLERS INC.	2318	DAVID MCFARLAN D			1201		94-31-44	36-15-42	
84	943145361358	15-Sep-94	1042	GLENN SMITH WELL DRILLING	2189				503	DO	94-31-45	36-13-58	60
85	943145361447	15-Jun-94	1042	GLENN SMITH WELL DRILLING	2189				143	DO	94-31-45	36-14-47	12
86	943148361437	25-Jun-03	1454	SUMMERS WELL DRILLING	0				410		94-31-48	36-14-37	0
87	943148361542	15-Jul-91	1196	DRILLERS INC.	2172	WALTER MALONEY			550		94-31-48	36-15-42	
88	943148361725	17-Jul-92	1042	GLENN SMITH WELL DRILLING	2189				303		94-31-48	36-17-25	
89	943149361356	5-Mar-92	1042	GLENN SMITH WELL DRILLING	2189				463		94-31-49	36-13-56	
90	943149361443	23-Oct-99	1196	DRILLERS INC.	2315	ROY HARMON			555	DO	94-31-49	36-14-43	12
91	943151361446	1-Oct-92	1315	BOB WADE DRILLING CO.	2063	BOB WADE			167		94-31-51	36-14-46	
92	943152361440	14-Sep-95	1042	GLENN SMITH WELL DRILLING	2189				563	DO	94-31-52	36-14-40	5
93	943155361445	28-Feb-96	1315	BOB WADE DRILLING CO.	2185				802	DO	94-31-55	36-14-45	16
94	943155361730	11-Dec-94	1196	DRILLERS INC.	2315	ROY HARMON			605	DO	94-31-55	36-17-30	8
95	943020361556	26-Apr-93	1315	BOB WADE DRILLING CO.	2063	BOB WADE			1300	DO	94-30-20	36-15-56	1300

Flint Creek Power Plant - Permit Modification Pre-Application
Nearby Water Wells - Two Mile Radius

WELL NUMBER	WELL ID	DATE WELL	CONTRACTOR	CO. NAME	DRILLER ID	DRILLER NAME	INSTALLER	INSTALL_NM	WELL DEPTH (FT)	USE CD	LONGITUDE	LATITUDE	YIELD (GPM)
96	943025361554	20-Jun-95	1042	GLENN SMITH WELL DRILLING	2189				203	DO	94-30-25	36-15-54	12
97	943026361547	9-Sep-95	1315	BOB WADE DRILLING CO.	2185				1328	DO	94-30-26	36-15-47	113
98	943027361732	21-Jun-99	1315	BOB WADE DRILLING CO.	2419	EDWARD MAGELKY			105	DO	94-30-27	36-17-32	10
99	943030361700	27-Feb-95	1042	GLENN SMITH WELL DRILLING	2189				643	DO	94-30-30	36-17-00	3
100	943109361412	8-Oct-93	1315	BOB WADE DRILLING CO.	2063	BOB WADE			290	DO	94-31-09	36-14-12	2
101	943109361428	9-Nov-93	1042	GLENN SMITH WELL DRILLING	2189				443	DO	94-31-09	36-14-28	6
102	943318361507	22-Oct-99	1315	BOB WADE DRILLING CO.	2419	EDWARD MAGELKY			270	DO	94-33-18	36-15-07	3
103	943321361519	13-Feb-98	1126	CAIN WELL DRILLING	2269	LARRY CAIN			250	LV	94-33-21	36-15-19	2
104	943109361726	1-Dec-98	1196	DRILLERS INC.	2315	ROY HARMON			205	DO	94-31-09	36-17-26	7
105	943111361645	18-Jun-97	1050	GROVE DRILLING INC.	2045	DALE LETT			660	DO	94-31-11	36-16-45	5
106	943111361645-2	23-Jun-97	1050	GROVE DRILLING INC.	2045	DALE LETT			517	DO	94-31-11	36-16-45	15
107	943112361413	3-Dec-96	1042	GLENN SMITH WELL DRILLING	2189				123	DO	94-31-12	36-14-13	50
108	943116361726	7-Jan-99	1050	GROVE DRILLING INC.	2045	DALE LETT			497	DO	94-31-16	36-17-26	6
109	943118361355	30-Aug-99	1315	BOB WADE DRILLING CO.	2419	EDWARD MAGELKY			659	DO	94-31-18	36-13-55	6
110	943118361634	19-AUG-94	1042	GLENN SMITH WELL DRILLING	2189				623	DO	94-31-18	36-16-34	3
111	943119361357	31-Aug-99	1315	BOB WADE DRILLING CO.	2419	EDWARD MAGELKY			577	DO	94-31-19	36-13-57	11
112	943119361408	2-May-94	1196	DRILLERS INC.	2315	ROY HARMON			405	DO	94-31-19	36-14-08	10
113	942930361716	8-Jul-96	1196	DRILLERS INC.	2390	CARL R. TILLER			1280	LV	94-29-30	36-17-16	30
114	942845361453	14-Jun-08	1315	BOB WADE DRILLING CO.	2419	EDWARD MAGELKY	0		495	DO	94-28-45	36-14-53	10

Flint Creek Power Plant - Permit Modification Pre-Application
Nearby Water Wells - Two Mile Radius

WELL NUMBER	WELL ID	DATE WELL	CONTRACTOR	CO. NAME	DRILLER ID	DRILLER NAME	INSTALLER	INSTALL_NM	WELL DEPTH (FT)	USE CD	LONGITUDE	LATITUDE	YIELD (GPM)
115	943130361500	3-Nov-09	1401	ETTL ENGINEERS & CONSULTANTS I	2418	TOMMY COOK	0		23	MO	94-31-30	36-15-00	0
116	943128361502	3-Nov-09	1401	ETTL ENGINEERS & CONSULTANTS I	2418	TOMMY COOK	0		25	MO	94-31-28	36-15-02	0
117	943127361507	4-Nov-09	1401	ETTL ENGINEERS & CONSULTANTS I	2418	TOMMY COOK	0		23	MO	94-31-27	36-15-07	0
118	943128361509	4-Nov-09	1401	ETTL ENGINEERS & CONSULTANTS I	2418	TOMMY COOK	0		23	MO	94-31-28	36-15-09	0
119	943124361534	19-Aug-09	1473	MOHAWK DRILLING, INC.	2237	LEE BRANTLEY	0		37	MO	94-31-24	36-15-34	0
120	943107361532	31-Jul-09	1473	MOHAWK DRILLING, INC.	2237	LEE BRANTLEY	0		70	MO	94-31-07	36-15-32	0
121	943107361530	30-Jul-09	1473	MOHAWK DRILLING, INC.	2237	LEE BRANTLEY	0		68	MO	94-31-07	36-15-30	0
122	943240361554	11-Nov-13	1315	BOB WADE DRILLING CO.	2419	EDWARD MAGELKY			1215	LV	94-32-40	36-15-54	115

- Note:
1. Information obtained from a water well search of the Water Well Construction Commission Access database on 2-15-16.
 2. Information not available for blank cells.
 3. No water well log information was found for water wells 123 or 124 shown on FIGURE 1.

APPENDIX D

Notice of Intent

- Arkansas Game and Fish Commission
- Arkansas Department of Health
- Arkansas Natural Heritage Commission/Arkansas Historic Preservation Program
- Benton County Judge
- Benton County RSWMD
- Federal Aviation Administration
- City of Gentry Mayor
- Northwest Arkansas Regional Airport
- U.S. Army Corps of Engineers
- United States Fish and Wildlife Service



American Electric Power
502 North Allen Avenue
Shreveport, LA 71101
AEP.com

November 25, 2015

CERTIFIED MAIL 7013 1090 0001 6983 1913

Arkansas Game and Fish Commission
Mr. Mike Knoedl
2 Natural Resources Drive
Little Rock, AR 72205
Ph: (501) 978-7302

**Subject: File review for records indicating the presence of elements of special concern in the vicinity of the proposed Class 3N Landfill
SWEPCO – Flint Creek Power Plant
21797 Swepeco Road
Gentry, Benton County, AR
AFIN: 04-00107, Permit No. 0273-S3N-R2**

Dear Mr. Knoedl:

American Electric Power (AEP) is currently in the process of preparing a pre-application for an expansion to the north and west of the current Class 3N disposal facility. The current disposal acreage of the landfill itself is 40 acres. The expansion will add approximately 95 acres to the disposal facility. The Class 3N Landfill is for the sole use of the coal-fired electric generating facility. This site is located in Gentry, Arkansas (north of US 412/59 and west of Springdale).

According to Arkansas Regulation 22.302(b)(4), copies of notification to appropriate agencies regarding whether the selected site is in conformance with airport safety, floodplain, wetlands separation distances and location restrictions, and protective of endangered species, historic archaeology, and flora and fauna are required.

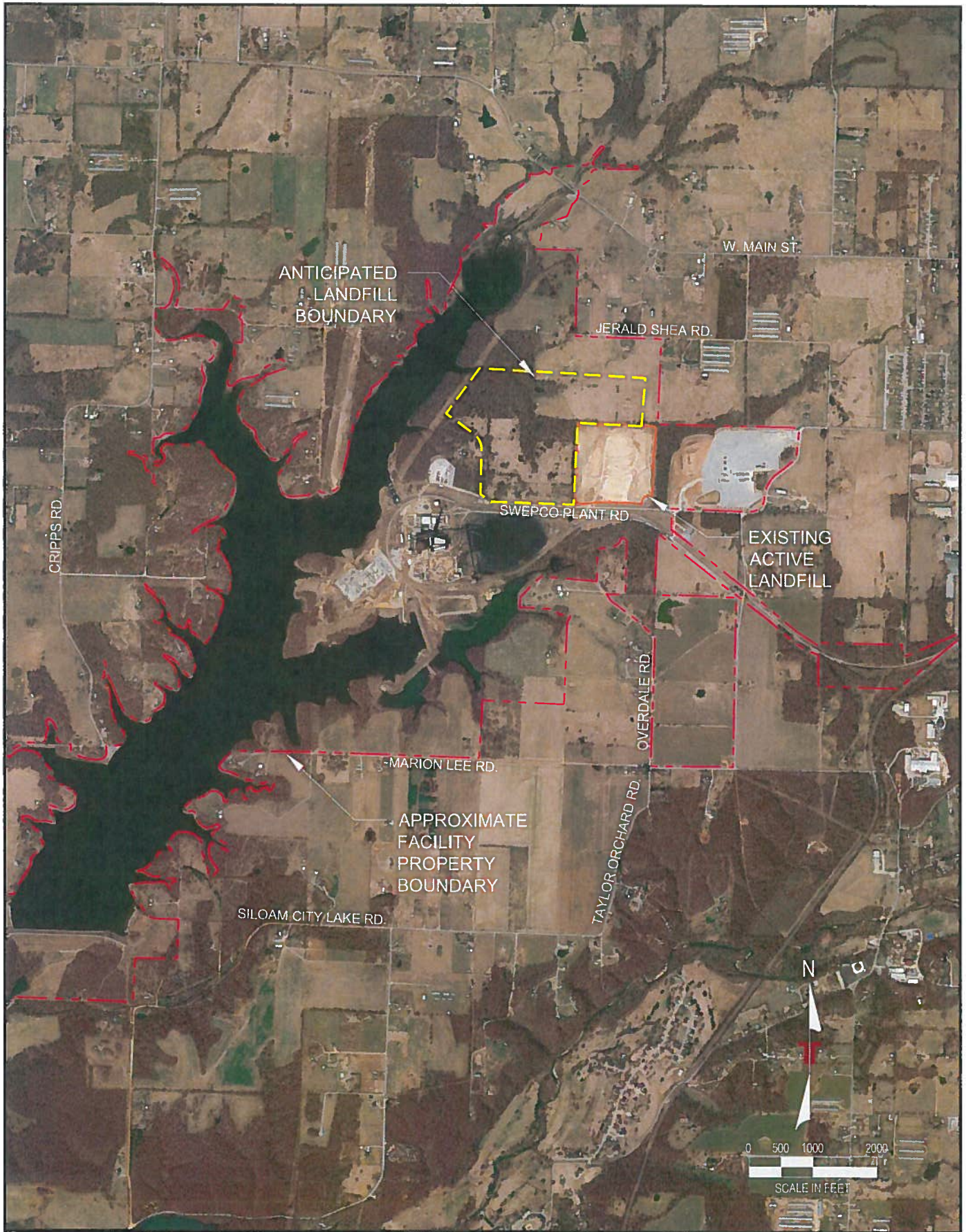
AEP is requesting written verification that the proposed landfill expansion will not affect any known flora or fauna within or near the proposed landfill expansion. Attached to this letter is Exhibit 1 that shows the approximate property boundary of the facility and the proposed location of the current Class 3N Landfill and the location of the lateral expansion.

Thank you for your consideration in this matter. If there are any questions, please contact David Miller at 318.673.3807 or Terry Wehling at 318.673.2721.

Sincerely,

A handwritten signature in black ink that reads 'David A. Miller'.

David A. Miller, P.E.
Land Environment and Remediation Services, Manager
cc: Mr. Quin Baber, P.G.
Mr. David McCormick, P.E.
Attachment: Exhibit 1 - Site Location Map



Project Mng:	DCM	Project No	216-001-35157156
Drawn By:	JDW	Scale:	SEE BARSCALE
Checked By:	DCM	File No.	F1M
Approved By:	QMB	Date:	11-24-15

Terracon
 Consulting Engineers and Scientists

25809 I-30 SOUTH BRYANT, AR 72022
 PH. (501) 847-9292 FAX. (501) 847-9210

SITE LOCATION MAP

PROPOSED LANDFILL LATERAL EXPANSION
 AMERICAN ELECTRIC POWER
 SWEPCO / FLINT CREEK POWER PLANT LANDFILL

GENTRY ARKANSAS

EXHIBIT

1



American Electric Power
502 North Allen Avenue
Shreveport, LA 71101
AEP.com

November 25, 2015

CERTIFIED MAIL 7013 1090 0001 6983 1920

Arkansas Department of Health
Mr. Lyle Godfrey, P.E.
Engineering Division
4815 West Markham
Little Rock, AR 72205-3867
Ph.: (501) 661-2623

Subject: File review for records indicating the presence of elements of special concern in the vicinity of the proposed Class 3N Landfill
SWEPCO – Flint Creek Power Plant
21797 Swepco Road
Gentry, Benton County, AR
AFIN: 04-00107, Permit No. 0273-S3N-R2

Dear Mr. Godfrey:

American Electric Power (AEP) is currently in the process of preparing a pre-application for an expansion to the north and west of the current Class 3N disposal facility. The current disposal acreage of the landfill itself is 40 acres. The expansion will add approximately 95 acres to the disposal facility. The Class 3N Landfill is for the sole use of the coal-fired electric generating facility. This site is located in Gentry, Arkansas (north of US 412/59 and west of Springdale).

According to Arkansas Regulation 22.302(b)(4), copies of notification to appropriate agencies regarding whether the selected site is in conformance with airport safety, floodplain, wetlands separation distances and location restrictions, and protective of endangered species, historic archaeology, and flora and fauna are required.

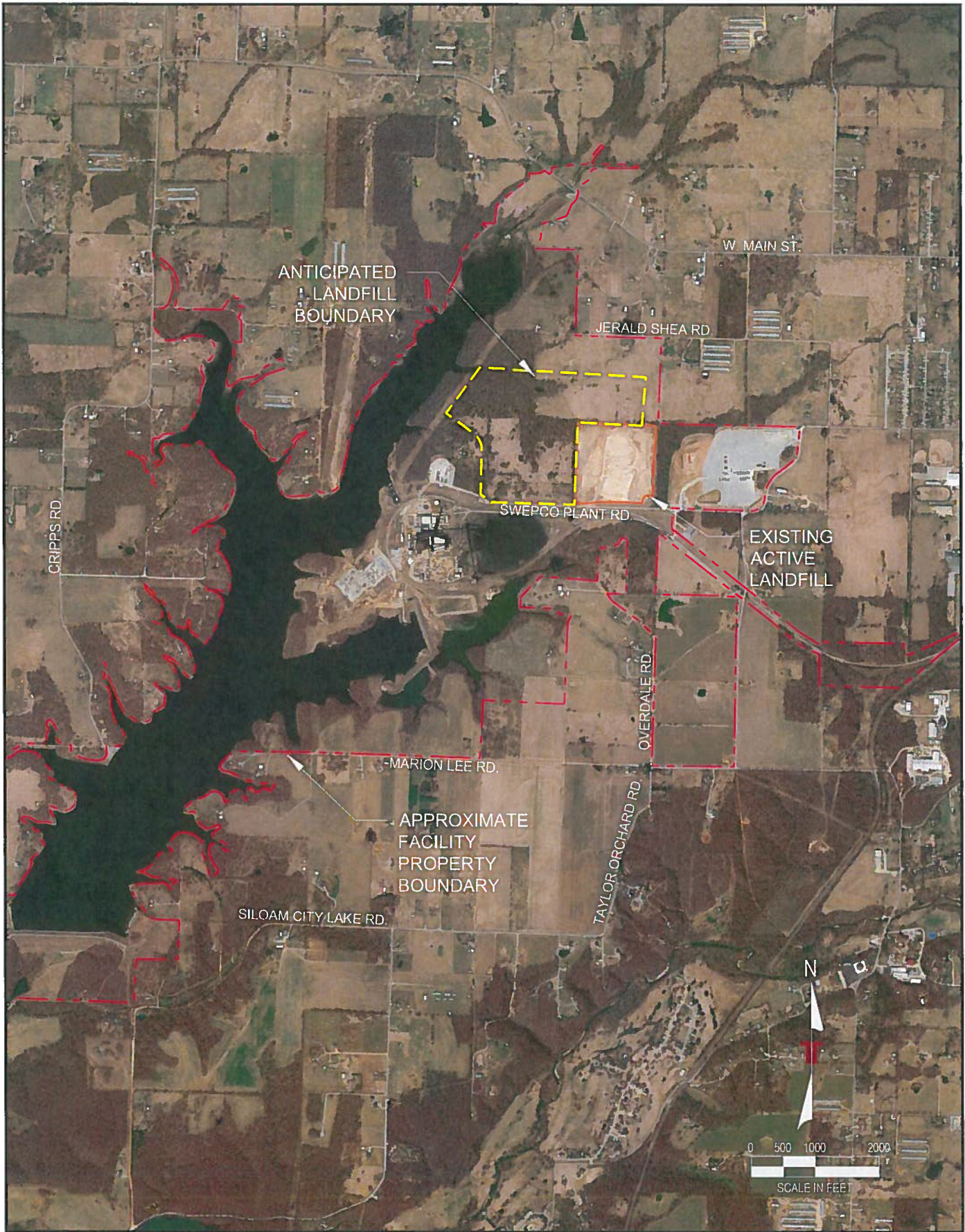
AEP is requesting written verification that the proposed landfill expansion will not affect any elements of special concern within or near the proposed landfill expansion. The landfill will accept inert, non-putrescible wastes only. The wastes will consist of coal ash, flue gas desulfurization products (calcium sulfite and calcium sulfate), and other closely related materials. Attached to this letter is Exhibit 1 that shows the approximate property boundary of the facility and the proposed location of the current Class 3N Landfill and the location of the lateral expansion.

Thank you for your consideration in this matter. If there are any questions regarding this request, please contact David Miller at 318.673.3807 or Terry Wehling at 318.673.2721.

Sincerely,

A handwritten signature in black ink that reads 'David A. Miller' in a cursive script.

David A. Miller, P.E.
Land Environment and Remediation Services, Manager
cc: Mr. Quin Baber, P.G.
Mr. David McCormick, P.E.
Attachment: Exhibit 1 - Site Location Map



Project Mngr:	DCM	Project No.	216-001-35157156
Drawn By:	JDW	Scale:	SEE BARSCALE
Checked By:	DCM	File No.	F1M
Approved By:	QMB	Date:	11-24-15

Terracon
 Consulting Engineers and Scientists

25809 I-30 SOUTH BRYANT, AR 72022
 PH (501) 847-9292 FAX (501) 847-9210

SITE LOCATION MAP

PROPOSED LANDFILL LATERAL EXPANSION
AMERICAN ELECTRIC POWER
 SWEPCO / FLINT CREEK POWER PLANT LANDFILL

GENTRY ARKANSAS

EXHIBIT
1



American Electric Power
502 North Allen Avenue
Shreveport, LA 71101
AEP.com

November 25, 2015

CERTIFIED MAIL 7013 1090 0001 6983 1937

Arkansas Natural Heritage Commission/ Arkansas Historic Preservation Program
Ms. Frances McSwain
1500 Tower Building
323 Center Street
Little Rock, AR 72201
Ph.: (501) 324-9760

Subject: File review for records indicating the presence of elements of special concern in the vicinity of the proposed Class 3N Landfill
SWEPCO – Flint Creek Power Plant
21797 Swepco Road
Gentry, Benton County, AR
AFIN: 04-00107, Permit No. 0273-S3N-R2

Dear Ms. McSwain:

American Electric Power (AEP) is currently in the process of preparing a pre-application for an expansion to the north and west of the current Class 3N disposal facility. The current disposal acreage of the landfill itself is 40 acres. The expansion will add approximately 95 acres to the disposal facility. The Class 3N Landfill is for the sole use of the coal-fired electric generating facility. This site is located in Gentry, Arkansas (north of US 412/59 and west of Springdale).

According to Arkansas Regulation 22.302(b)(4), copies of notification to appropriate agencies regarding whether the selected site is in conformance with airport safety, floodplain, wetlands separation distances and location restrictions, and protective of endangered species, historic archaeology, and flora and fauna are required.

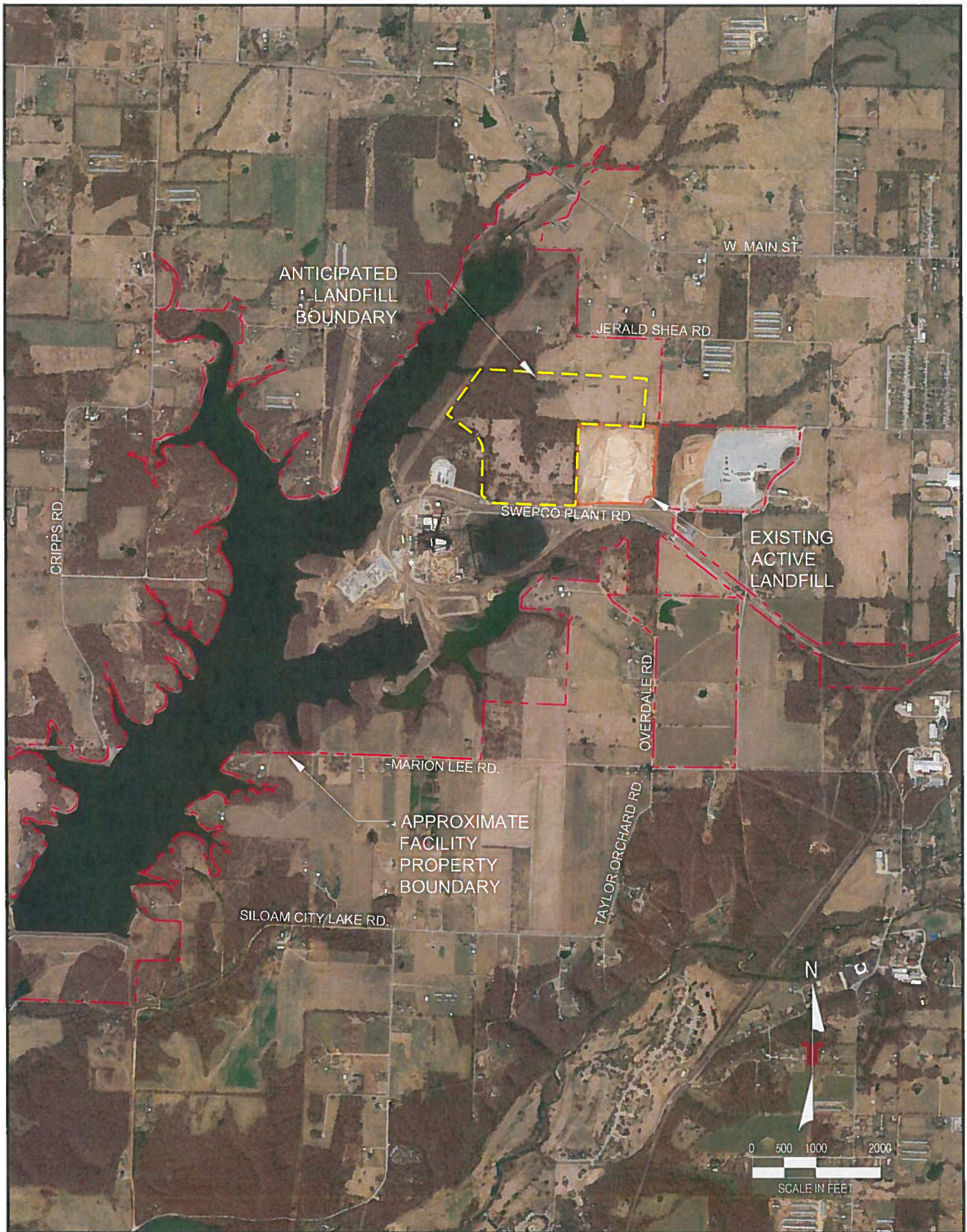
AEP is requesting written verification that the proposed landfill expansion will not affect any known archeological sites within or near the proposed landfill expansion. Attached to this letter is Exhibit 1 that shows the approximate property boundary of the facility and the proposed location of the current Class 3N Landfill and the location of the lateral expansion.

Thank you for your consideration in this matter. If there are any questions regarding this request, please contact David Miller at 318.673.3807 or Terry Wehling at 318.673.2721.

Sincerely,

A handwritten signature in black ink that reads 'David A. Miller'.

David A. Miller, P.E.
Land Environment and Remediation Services, Manager
cc: Mr. Quin Baber, P.G.
Mr. David McCormick, P.E.
Attachment: Exhibit 1 - Site Location Map



Project Mng: DCM
 Drawn By: JDW
 Checked By: DCM
 Approved By: QMB

Project No: 216-001-35157156
 Scale: SEE BARSCALE
 File No: F1M
 Date: 11-24-15

Terracon
 Consulting Engineers and Scientists
 25809 I-30 SOUTH BRYANT, AR 72022
 PH (501) 847-9292 FAX (501) 847-9210

SITE LOCATION MAP
 PROPOSED LANDFILL LATERAL EXPANSION
 AMERICAN ELECTRIC POWER
 SWEPCO / FLINT CREEK POWER PLANT LANDFILL
 GENTRY ARKANSAS

EXHIBIT
 1



American Electric Power
502 North Allen Avenue
Shreveport, LA 71101
AEP.com

November 25, 2015

CERTIFIED MAIL 7013 1090 0001 6983 1944

The Honorable Robert Clinard
Benton County Judge
215 E. Central Ave.
Bentonville, AR 72712
Ph: (479) 366-7767

Subject: **Notice of Intent for Class 3N Landfill**
 SWEPCO – Flint Creek Power Plant
 21797 Swepeco Road
 Gentry, Benton County, AR
 AFIN: 04-00107, Permit No. 0273-S3N-R2

Dear Judge Clinard:

American Electric Power (AEP) is currently in the process of preparing a pre-application for an expansion to the north and west of the current Class 3N disposal facility. The current disposal acreage of the landfill itself is 40 acres. The expansion will add approximately 95 acres to the disposal facility. The Class 3N Landfill is for the sole use of the coal-fired electric generating facility. This site is located in Gentry, Arkansas (north of US 412/59 and west of Springdale).

This letter serves as the "Notice of Intent" that AEP will be submitting an application for the expansion of the current coal-fired electric generating facility's Class 3N Landfill for its coal ash. Attached to this letter is Exhibit 1 that shows the approximate property boundary of the facility and the proposed location of the current Class 3N Landfill and the location of the lateral expansion. According to the Benton County Regional Solid Waste Management District Regulations, a Certificate of Need (CON) is not required for a Class 3N Noncommercial Landfill.

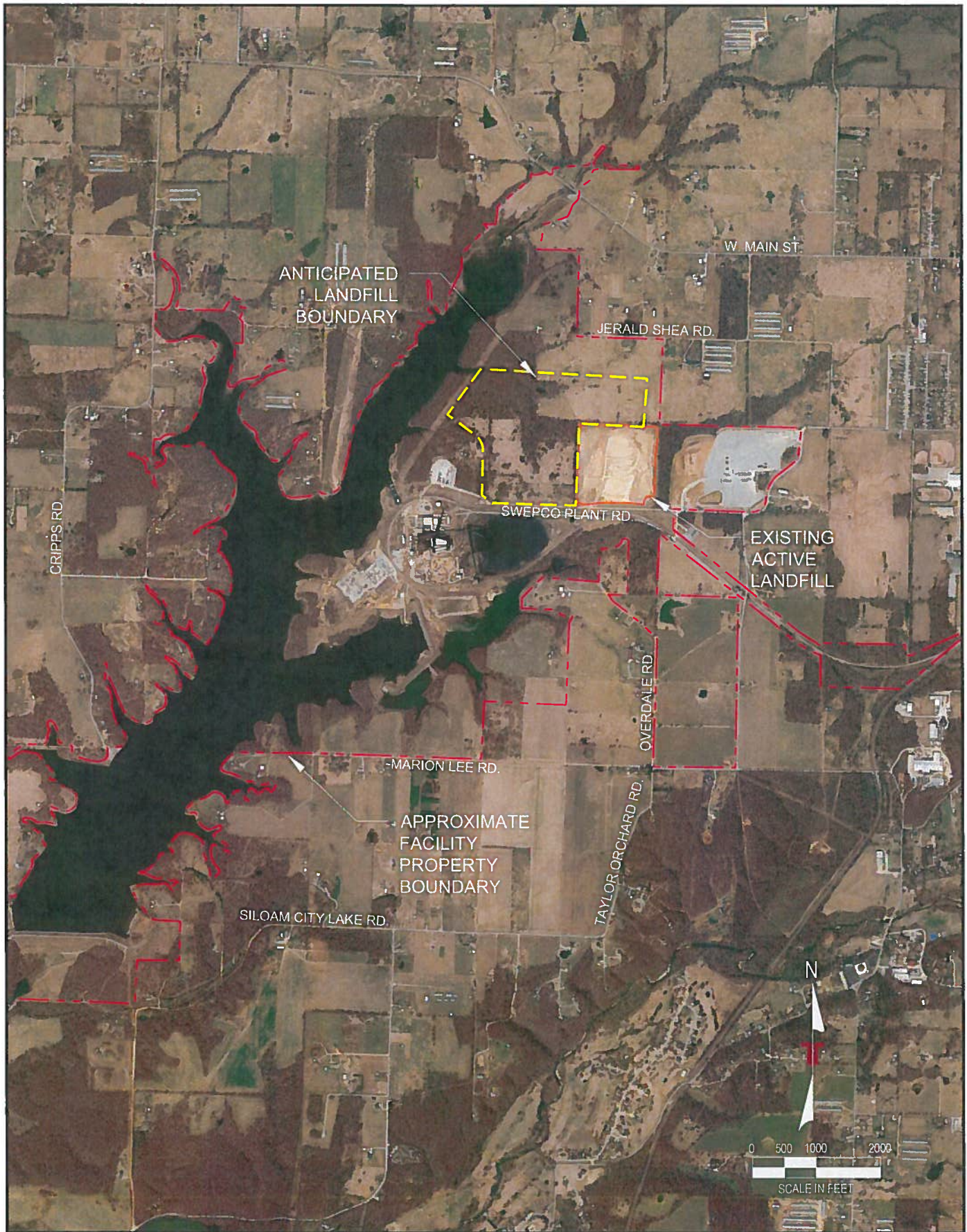
Thank you for your consideration in this matter. If there are any questions, please contact David Miller at 318.673.3807 or Terry Wehling at 318.673.2721.

Sincerely,

A handwritten signature in black ink that reads 'David A. Miller'.

David A. Miller, P.E.
Land Environment and Remediation Services, Manager

cc: Mr. Quin Baber, P.G.
 Mr. David McCormick, P.E.
Attachment: Exhibit 1 - Site Location Map



Project Mngr: DCM
 Drawn By: JDW
 Checked By: DCM
 Approved By: QMB

Project No: 216-001-35157156
 Scale: SEE BARSCALE
 File No: F1M
 Date: 11-24-15

Terracon
 Consulting Engineers and Scientists
 25809 I-30 SOUTH BRYANT, AR 72022
 PH (501) 847-9292 FAX (501) 847-9210

SITE LOCATION MAP
 PROPOSED LANDFILL LATERAL EXPANSION
 AMERICAN ELECTRIC POWER
 SWEP/FLINT CREEK POWER PLANT LANDFILL
 GENTRY ARKANSAS

EXHIBIT
 1



American Electric Power
502 North Allen Avenue
Shreveport, LA 71101
AEP.com

November 25, 2015

CERTIFIED MAIL 7013 1090 0001 6983 1951

Benton County Regional Solid Waste Management District
Attn: Ms. Wendy Cravens, Director
5702 Brookside Road
Bentonville, AR 72712
Ph: (479) 795-0751

Subject: **Notice of Intent for Class 3N Landfill
SWEPCO – Flint Creek Power Plant
21797 Swepeco Road
Gentry, Benton County, AR
AFIN: 04-00107, Permit No. 0273-S3N-R2**

Dear Ms. Cravens:

American Electric Power (AEP) is currently in the process of preparing a pre-application for an expansion to the north and west of the current Class 3N disposal facility. The current disposal acreage of the landfill itself is 40 acres. The expansion will add approximately 95 acres to the disposal facility. The Class 3N Landfill is for the sole use of the coal-fired electric generating facility. This site is located in Gentry, Arkansas (north of US 412/59 and west of Springdale).

This letter serves as the "Notice of Intent" that AEP will be submitting an application for the expansion of the current coal-fired electric generating facility's Class 3N Landfill for its coal ash. Attached to this letter is Exhibit 1 that shows the approximate property boundary of the facility and the proposed location of the current Class 3N Landfill and the location of the lateral expansion. According to the Benton County Regional Solid Waste Management District Regulations, a Certificate of Need (CON) is not required for a Class 3N Noncommercial Landfill.

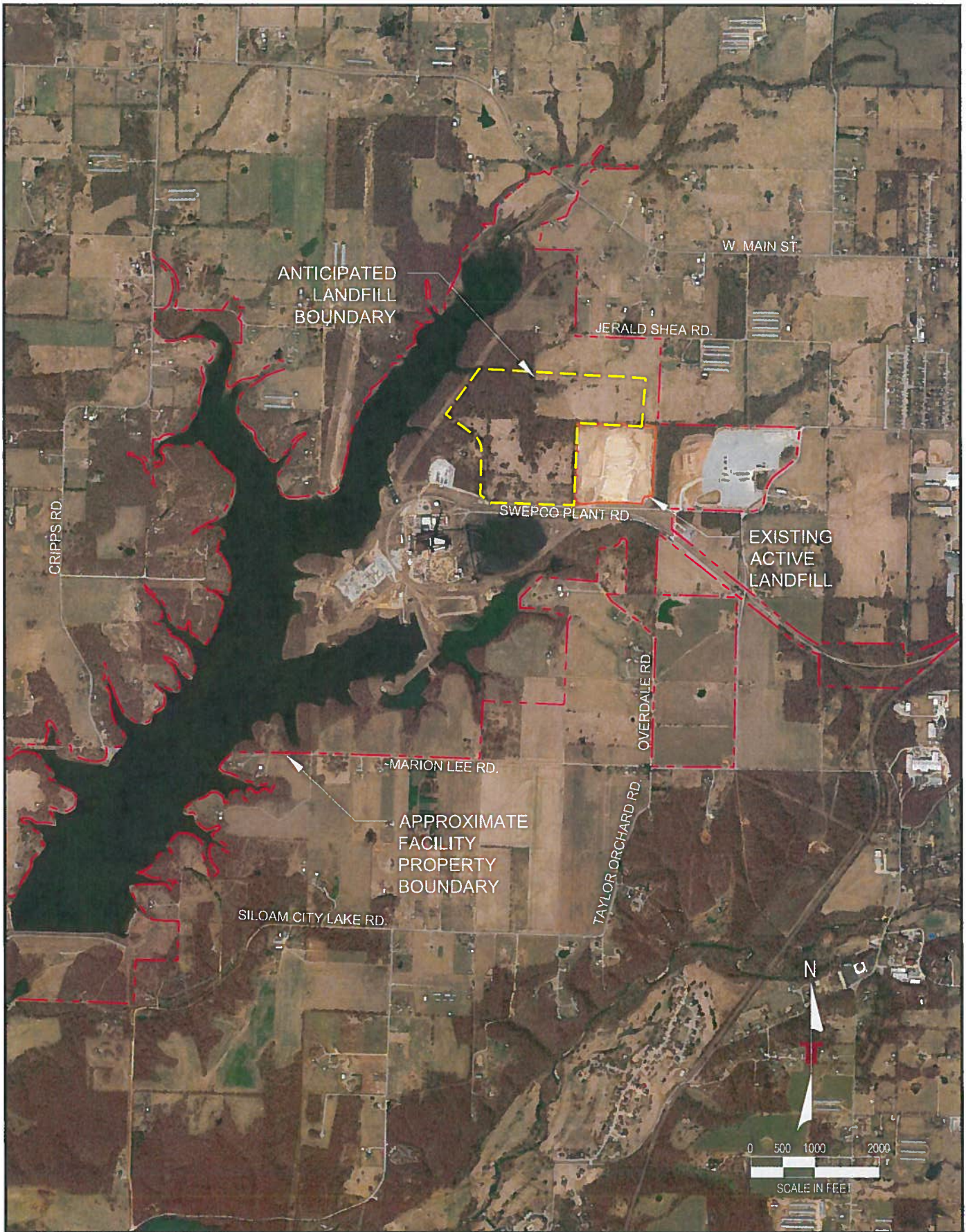
Thank you for your consideration in this matter. If there are any questions, please contact David Miller at 318.673.3807 or Terry Wehling at 318.673.2721.

Sincerely,

A handwritten signature in black ink that reads 'David A. Miller'.

David A. Miller, P.E.
Land Environment and Remediation Services, Manager

cc: Mr. Quin Baber, P.G.
 Mr. David McCormick, P.E.
Attachment: Exhibit 1 - Site Location Map



Project Mngr	DCM
Drawn By	JDW
Checked By	DCM
Approved By	QMB

Project No	216-001-35157156
Scale	SEE BARSCALE
File No	F1M
Date	11-24-15

Terracon
 Consulting Engineers and Scientists

25809 I-30 SOUTH BRYANT, AR 72322
 PH (501) 847-9292 FAX (501) 847-9210

SITE LOCATION MAP

PROPOSED LANDFILL LATERAL EXPANSION
AMERICAN ELECTRIC POWER
SWEPCO / FLINT CREEK POWER PLANT LANDFILL

GENTRY ARKANSAS

EXHIBIT

1



American Electric Power
502 North Allen Avenue
Shreveport, LA 71101
AEP.com

November 25, 2015

CERTIFIED MAIL 7013 1090 0001 6983 1968

Federal Aviation Administration
Southwest Region Airports District
Mr. William Mitchell
10101 Hillwood Parkway
Fort Worth, TX 76137-4298
Ph.: (817) 222-5621

Subject: File review for records indicating the presence of elements of special concern in the vicinity of the proposed Class 3N Landfill
SWEPCO – Flint Creek Power Plant
21797 Swepco Road
Gentry, Benton County, AR
AFIN: 04-00107, Permit No. 0273-S3N-R2

Dear Mr. Mitchell:

American Electric Power (AEP) is currently in the process of preparing a pre-application for an expansion to the north and west of the current Class 3N disposal facility. The current disposal acreage of the landfill itself is 40 acres. The expansion will add approximately 95 acres to the disposal facility. The Class 3N Landfill is for the sole use of the coal-fired electric generating facility. This site is located in Gentry, Arkansas (north of US 412/59 and west of Springdale).

According to Arkansas Regulation 22.302(b)(4), copies of notification to appropriate agencies regarding whether the selected site is in conformance with airport safety, floodplain, wetlands separation distances and location restrictions, and protective of endangered species, historic archaeology, and flora and fauna are required.

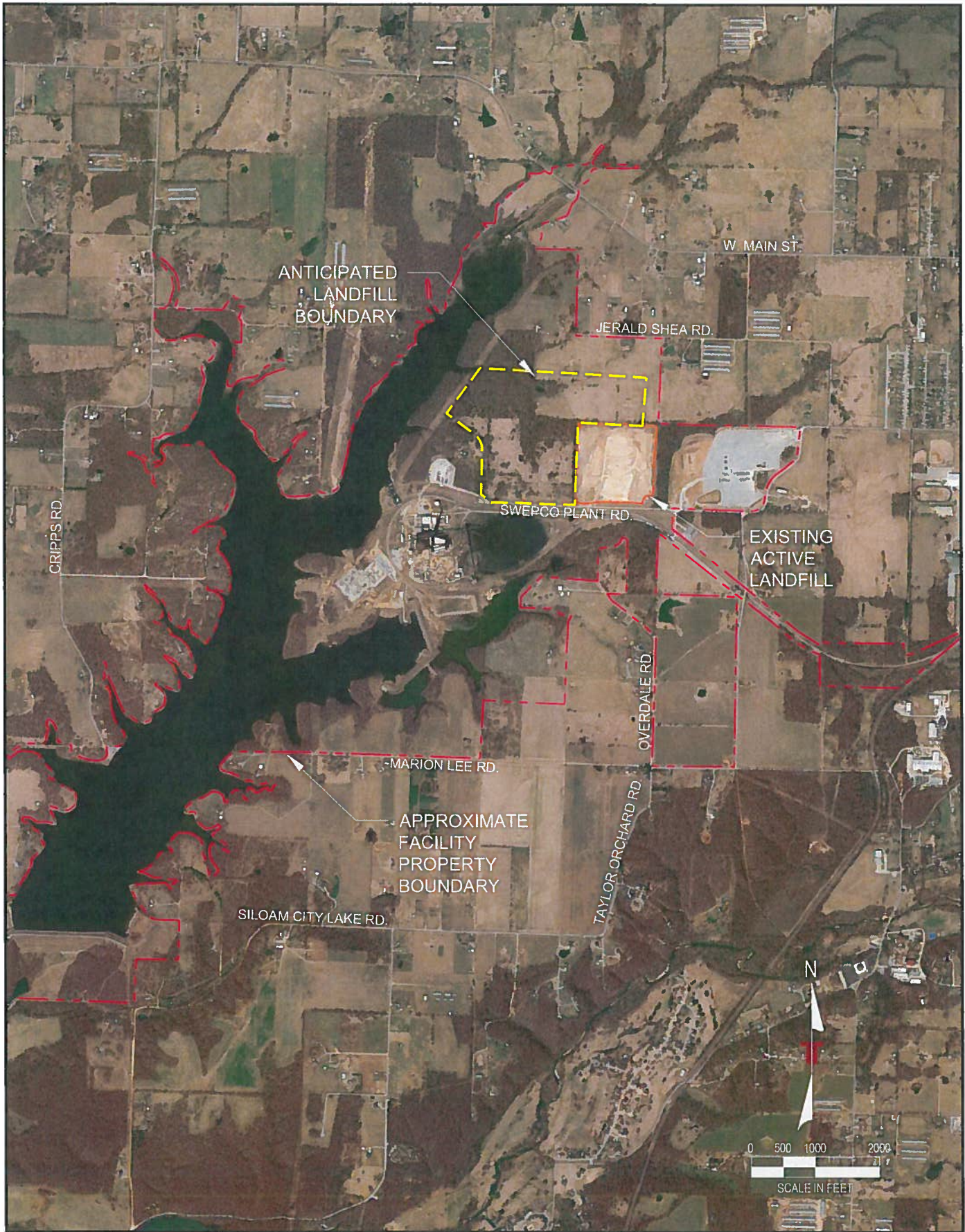
AEP is requesting written verification that the proposed landfill expansion will not affect any airports within or near the proposed landfill expansion. The landfill will accept inert, non-putrescible wastes only. The wastes will consist of coal ash, flue gas desulfurization products (calcium sulfite and calcium sulfate), and other closely related materials. Attached to this letter is Exhibit 1 that shows the approximate property boundary of the facility and the proposed location of the current Class 3N Landfill and the location of the lateral expansion.

Thank you for your consideration in this matter. If there are any questions regarding this request, please contact David Miller at 318.673.3807 or Terry Wehling at 318.673.2721.

Sincerely,

A handwritten signature in black ink that reads 'David A. Miller'.

David A. Miller, P.E.
Land Environment and Remediation Services, Manager
cc: Mr. Quin Baber, P.G.
Mr. David McCormick, P.E.
Attachment: Exhibit 1 - Site Location Map



Project Mngr:	DCM	Project No.	216-001-35157156
Drawn By:	JDW	Scale	SEE BARSCALE
Checked By:	DCM	File No.	F1M
Approved By:	QMB	Date	11-24-15

Terracon
 Consulting Engineers and Scientists

25809 I-30 SOUTH BRYANT, AR 72022
 PH (501) 847-9292 FAX (501) 847-9210

SITE LOCATION MAP

PROPOSED LANDFILL LATERAL EXPANSION
AMERICAN ELECTRIC POWER
 SWEPCO / FLINT CREEK POWER PLANT LANDFILL

GENTRY ARKANSAS

EXHIBIT

1



American Electric Power
502 North Allen Avenue
Shreveport, LA 71101
AEP.com

November 25, 2015

CERTIFIED MAIL 7013 1090 0001 6983 1975

Mayor Kevin Johnston
101 W. Main Street
P.O. Box 1415
Gentry, AR 72734
Ph: (479) 736-2555

Subject: **Notice of Intent for Class 3N Landfill
SWEPCO – Flint Creek Power Plant
21797 Swepeco Road
Gentry, Benton County, AR
AFIN: 04-00107, Permit No. 0273-S3N-R2**

Dear Mayor Johnston:

American Electric Power (AEP) is currently in the process of preparing a pre-application for an expansion to the north and west of the current Class 3N disposal facility. The current disposal acreage of the landfill itself is 40 acres. The expansion will add approximately 95 acres to the disposal facility. The Class 3N Landfill is for the sole use of the coal-fired electric generating facility. This site is located in Gentry, Arkansas (north of US 412/59 and west of Springdale).

This letter serves as the "Notice of Intent" that AEP will be submitting an application for the expansion of the current coal-fired electric generating facility's Class 3N Landfill for its coal ash. Attached to this letter is Exhibit 1 that shows the approximate property boundary of the facility and the proposed location of the current Class 3N Landfill and the location of the lateral expansion. According to the Benton County Regional Solid Waste Management District Regulations, a Certificate of Need (CON) is not required for a Class 3N Noncommercial Landfill.

Thank you for your consideration in this matter. If there are any questions, please contact David Miller at 318.673.3807 or Terry Wehling at 318.673.2721.

Sincerely,

A handwritten signature in black ink that reads 'David A. Miller'.

David A. Miller, P.E.
Land Environment and Remediation Services, Manager

cc: Mr. Quin Baber, P.G.
 Mr. David McCormick, P.E.

Attachment: Exhibit 1 - Site Location Map



Project Mng: DCM
 Drawn By: JDW
 Checked By: DCM
 Approved By: QMB

Project No. 216-001-35157156
 Scale: SEE BARSCALE
 File No. F1M
 Date: 11-24-15

Terracon
 Consulting Engineers and Scientists
 25809 I-30 SOUTH BRYANT, AR 72022
 PH. (501) 847-9292 FAX. (501) 847-9210

SITE LOCATION MAP
 PROPOSED LANDFILL LATERAL EXPANSION
 AMERICAN ELECTRIC POWER
 SWEPCO / FLINT CREEK POWER PLANT LANDFILL
 GENTRY ARKANSAS

EXHIBIT
 1



American Electric Power
502 North Allen Avenue
Shreveport, LA 71101
AEP.com

November 25, 2015

CERTIFIED MAIL 7013 1090 0001 6983 1982

Northwest Arkansas Regional Airport
Mr. Charles Butcher
Administrative/ Operations Coordinator
1 Airport Blvd.
Bentonville, AR 72712
Ph.: (479) 205-1000

Subject: File review for records indicating the presence of elements of special concern in the vicinity of the proposed Class 3N Landfill
SWEPCO – Flint Creek Power Plant
21797 Swepeco Road
Gentry, Benton County, AR
AFIN: 04-00107, Permit No. 0273-S3N-R2

Dear Mr. Butcher:

American Electric Power (AEP) is currently in the process of preparing a pre-application for an expansion to the north and west of the current Class 3N disposal facility. The current disposal acreage of the landfill itself is 40 acres. The expansion will add approximately 95 acres to the disposal facility. The Class 3N Landfill is for the sole use of the coal-fired electric generating facility. This site is located in Gentry, Arkansas (north of US 412/59 and west of Springdale).

According to Arkansas Regulation 22.302(b)(4), copies of notification to appropriate agencies regarding whether the selected site is in conformance with airport safety, floodplain, wetlands separation distances and location restrictions, and protective of endangered species, historic archaeology, and flora and fauna are required.

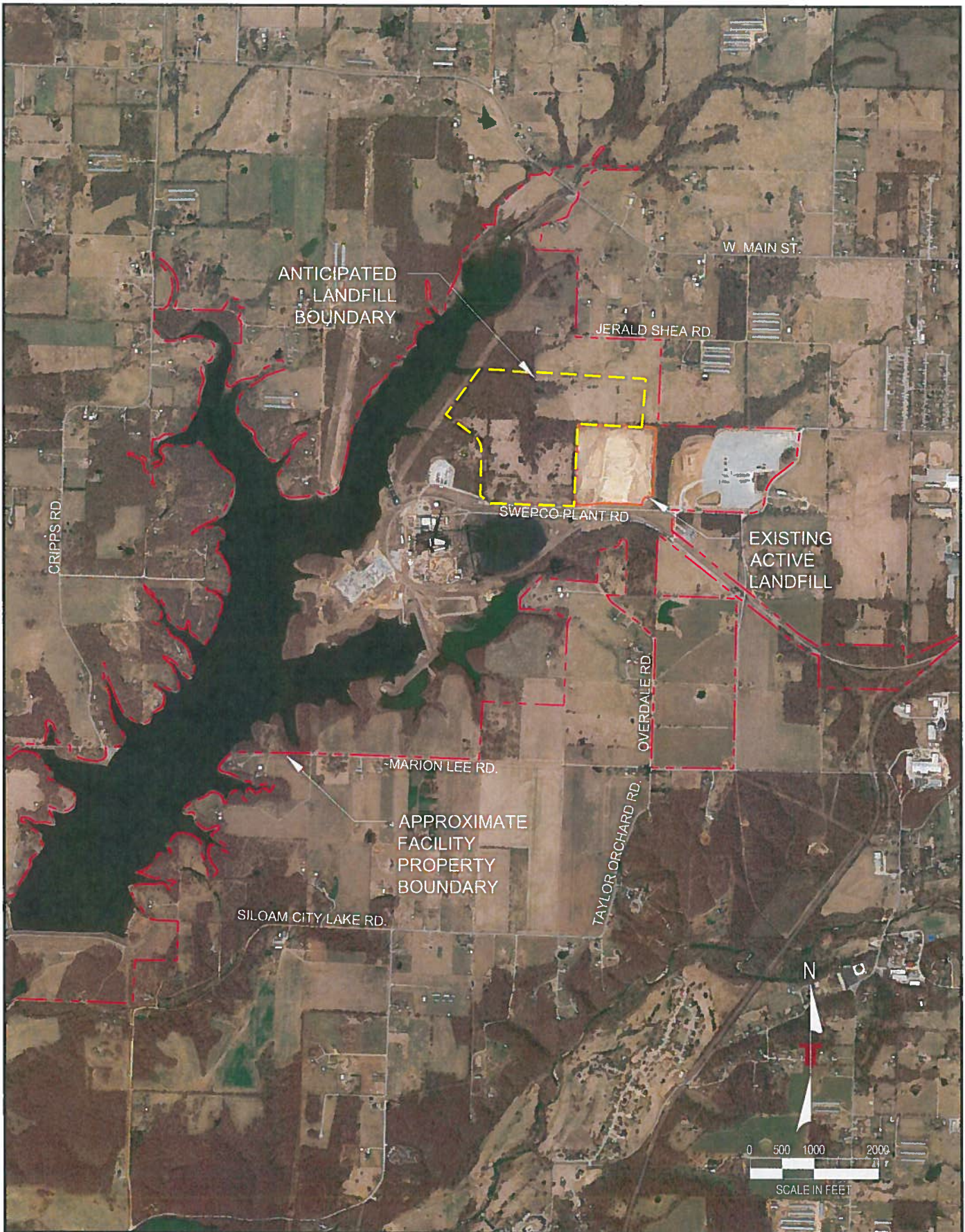
AEP is requesting written verification that the proposed landfill expansion will not affect any airports within or near the proposed landfill expansion. The landfill will accept inert, non-putrescible wastes only. The wastes will consist of coal ash, flue gas desulfurization products (calcium sulfite and calcium sulfate), and other closely related materials. Attached to this letter is Exhibit 1 that shows the approximate property boundary of the facility and the proposed location of the current Class 3N Landfill and the location of the lateral expansion.

Thank you for your consideration in this matter. If there are any questions regarding this request, please contact David Miller at 318.673.3807 or Terry Wehling at 318.673.2721.

Sincerely,

A handwritten signature in black ink that reads 'David A. Miller'.

David A. Miller, P.E.
Land Environment and Remediation Services, Manager
cc: Mr. Quin Baber, P.G.
Mr. David McCormick, P.E.
Attachment: Exhibit 1 - Site Location Map



Project Mngr: DCM
 Drawn By: JDW
 Checked By: DCM
 Approved By: QMB

Project No: 216-001-35157156
 Scale: SEE BARSCALE
 File No: F1M
 Date: 11-24-15

Terracon
 Consulting Engineers and Scientists

25809 I-30 SOUTH BRYANT, AR 72022
 PH. (501) 847-9292 FAX. (501) 847-9210

SITE LOCATION MAP
 PROPOSED LANDFILL LATERAL EXPANSION
 AMERICAN ELECTRIC POWER
 SWEPCO / FLINT CREEK POWER PLANT LANDFILL

GENTRY ARKANSAS

EXHIBIT
 1



American Electric Power
502 North Allen Avenue
Shreveport, LA 71101
AEP.com

November 25, 2015

CERTIFIED MAIL 7013 1090 0001 6983 1999

U.S. Army Corps of Engineers
Mr. Jerry L. Harris
Little Rock District
CESWL-PR-R
P.O. Box 867
Little Rock, AR 72203-0867

Subject: File review for records indicating the presence of elements of special concern in the vicinity of the proposed Class 3N Landfill SWEPCO – Flint Creek Power Plant 21797 Swepeco Road Gentry, Benton County, AR AFIN: 04-00107, Permit No. 0273-S3N-R2

Dear Mr. Harris:

American Electric Power (AEP) is currently in the process of preparing a pre-application for an expansion to the north and west of the current Class 3N disposal facility. The current disposal acreage of the landfill itself is 40 acres. The expansion will add approximately 95 acres to the disposal facility. The Class 3N Landfill is for the sole use of the coal-fired electric generating facility. This site is located in Gentry, Arkansas (north of US 412/59 and west of Springdale).

According to Arkansas Regulation 22.302(b)(4), copies of notification to appropriate agencies regarding whether the selected site is in conformance with airport safety, floodplain, wetlands separation distances and location restrictions, and protective of endangered species, historic archaeology, and flora and fauna are required.

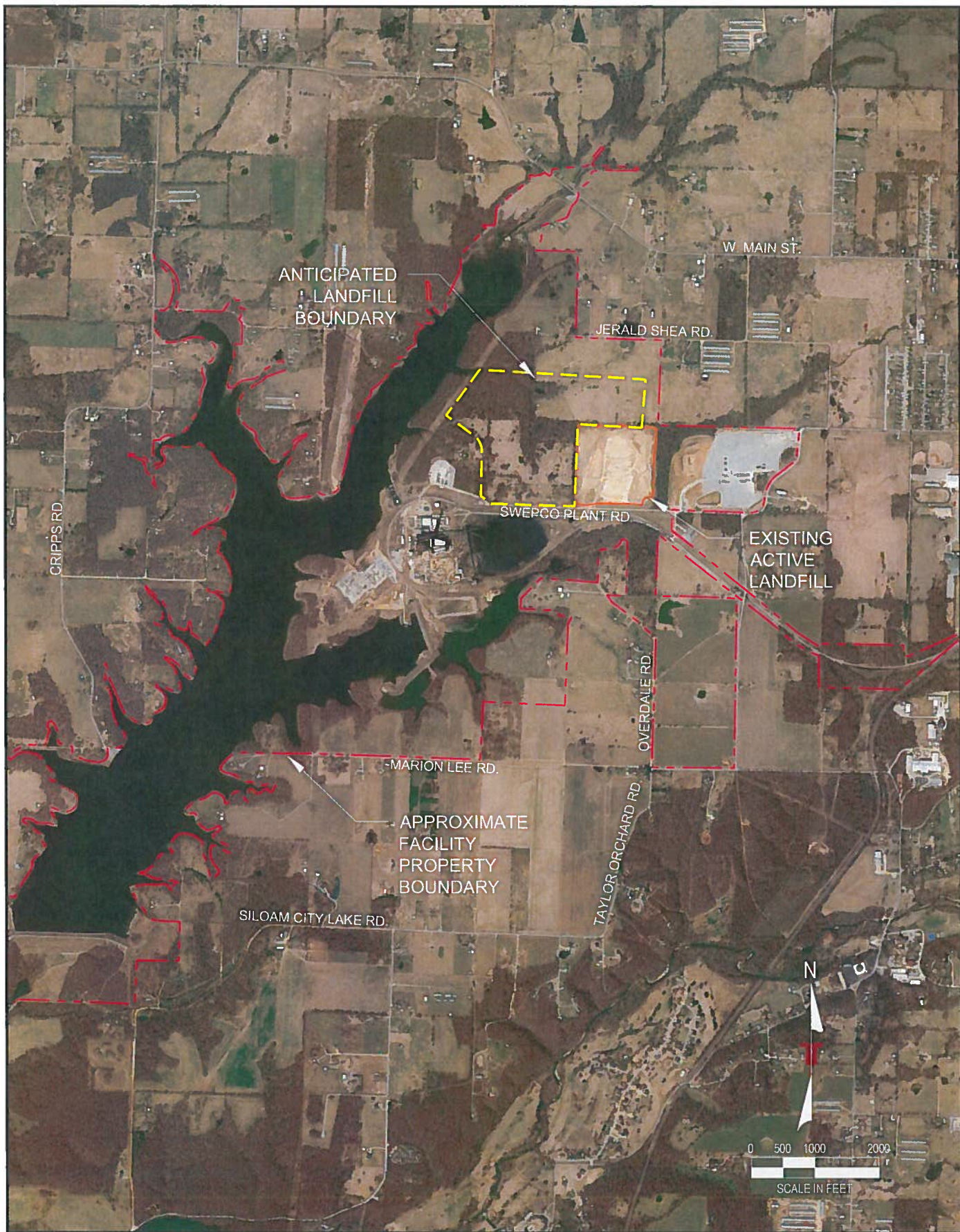
AEP is requesting written verification that the proposed landfill expansion will not pose a threat to wetlands, and meets the required separation distances from any existing wetlands. The landfill will accept inert, non-putrescible wastes only. The wastes will consist of coal ash, flue gas desulfurization products (calcium sulfite and calcium sulfate), and other closely related materials. Attached to this letter is Exhibit 1 that shows the approximate property boundary of the facility and the proposed location of the current Class 3N Landfill and the location of the lateral expansion.

Thank you for your consideration in this matter. If there are any questions regarding this request, please contact David Miller at 318.673.3807 or Terry Wehling at 318.673.2721.

Sincerely,

A handwritten signature in black ink that reads "David A. Miller".

David A. Miller, P.E.
Land Environment and Remediation Services, Manager
cc: Mr. Quin Baber, P.G.
Mr. David McCormick, P.E.
Attachment: Exhibit 1 - Site Location Map



Project Mng: DCM
 Drawn By: JDW
 Checked By: DCM
 Approved By: QMB

Project No. 216-001-35157156
 Scale: SEE BARSCALE
 File No. F1M
 Date: 11-24-15

Terracon
 Consulting Engineers and Scientists
 25809 I-30 SOUTH BRYANT, AR 72022
 PH. (501) 847-9292 FAX. (501) 847-9210

SITE LOCATION MAP
 PROPOSED LANDFILL LATERAL EXPANSION
 AMERICAN ELECTRIC POWER
 SWEPGO / FLINT CREEK POWER PLANT LANDFILL
 GENTRY ARKANSAS

EXHIBIT
 1



American Electric Power
502 North Allen Avenue
Shreveport, LA 71101
AEP.com

November 25, 2015

CERTIFIED MAIL 7013 1090 0001 6983 2002

United States Fish and Wildlife Service
Mr. Chris Davidson
110 S Amity Road, Suite 300
Conway, AR 72032-8975
Ph.: (501) 513-4470

Subject: File review for records indicating the presence of elements of special concern in the vicinity of the proposed Class 3N Landfill
SWEPCO – Flint Creek Power Plant
21797 Swepeco Road
Gentry, Benton County, AR
AFIN: 04-00107, Permit No. 0273-S3N-R2

Dear Mr. Davidson:

American Electric Power (AEP) is currently in the process of preparing a pre-application for an expansion to the north and west of the current Class 3N disposal facility. The current disposal acreage of the landfill itself is 40 acres. The expansion will add approximately 95 acres to the disposal facility. The Class 3N Landfill is for the sole use of the coal-fired electric generating facility. This site is located in Gentry, Arkansas (north of US 412/59 and west of Springdale).

According to Arkansas Regulation 22.302(b)(4), copies of notification to appropriate agencies regarding whether the selected site is in conformance with airport safety, floodplain, wetlands separation distances and location restrictions, and protective of endangered species, historic archaeology, and flora and fauna are required.

AEP is requesting written verification that the proposed landfill expansion will not affect any known flora or fauna or endangered species within or near the proposed landfill expansion. Attached to this letter is Exhibit 1 that shows the approximate property boundary of the facility and the proposed location of the current Class 3N Landfill and the location of the lateral expansion.

Thank you for your consideration in this matter. If there are any questions, please contact David Miller at 318.673.3807 or Terry Wehling at 318.673.2721.

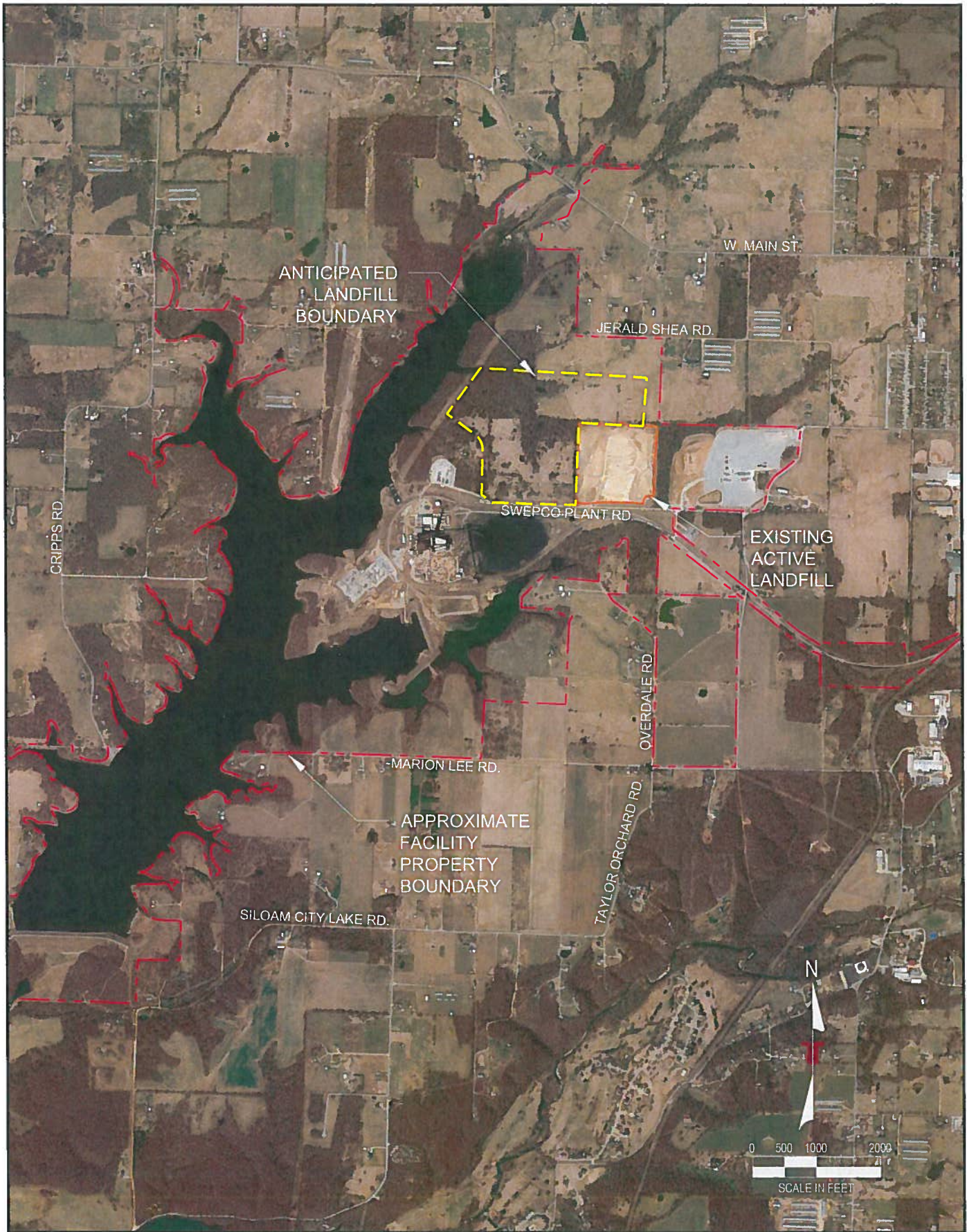
Sincerely,

A handwritten signature in black ink that reads 'David A. Miller'.

David A. Miller, P.E.
Land Environment and Remediation Services, Manager

cc: Mr. Quin Baber, P.G.
Mr. David McCormick, P.E.

Attachment: Exhibit 1 - Site Location Map



Project Mngr: DCM
 Drawn By: JDW
 Checked By: DCM
 Approved By: QMB

Project No: 216-001-35157156
 Scale: SEE BARSCALE
 File No: F1M
 Date: 11-24-15

Terracon
 Consulting Engineers and Scientists
 25809 I-30 SOUTH BRYANT, AR 72022
 PH (501) 847-9292 FAX (501) 847-9210

SITE LOCATION MAP
 PROPOSED LANDFILL LATERAL EXPANSION
 AMERICAN ELECTRIC POWER
 SWEPCO / FLINT CREEK POWER PLANT LANDFILL
 GENTRY ARKANSAS

EXHIBIT
 1



December 2015

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January 2016

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January 2015

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February 2015

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March 2015

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April 2015

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May 2015

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June 2015

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July 2015

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August 2015

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September 2015

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October 2015

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November 2015

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December 2015

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January 2016

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February 2016

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7007 1490 0004 7890 3177

U.S. Postal Service™ *Env. Terry Wehling*
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	5.54

Mr. Bryan Leamons, P.E.
 Engineering Supervisor
 Solid Waste Management Division
 Arkansas Dept. of Environmental Quality
 5301 Northshore Drive
 North Little Rock, AR 72118

PS Form 3800, August 2004



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Mr. Bryan Leamons, P.E.
 Engineering Supervisor
 Solid Waste Management Division
 Arkansas Dept. of Environmental Quality
 5301 Northshore Drive
 North Little Rock, AR 72118

COMPLETE THIS SECTION ON DELIVERY

A. Signature
Lisa Foster Agent Addressee

B. Received by (Printed Name)
 Lisa Foster

C. Date of Delivery
 1/22/16

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) **7007 1490 0004 7890 3177**

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540



December 2015

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January 2016

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January 2015

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February 2015

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September 2015

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October 2015

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November 2015

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December 2015

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January 2016

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February 2016

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7013 1090 0001 6983 1975

U.S. Postal Service™ *AHS ENV MILLER*
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage \$	
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.73



Sent To *Mayor Kevin Johnston*
 Street, Apt. No., or PO Box No. *101 W. Main St*
 City, State, ZIP+4 *Gentry, AR*

PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Mayor Kevin Johnston
101 W. Main St
PO Box 1415
Gentry, AR 72734

2. Article Number **7013 1090 0001 6983 1975**
 (Transfer from service label)

PS Form 3811, July 2013 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature *[Signature]* Agent Addressee
 B. Received by (Printed Name) *Kevin Johnston*

C. Date of Delivery *DEC 14 2015*

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type
 Certified Mail™ Priority Mail Express™
 Registered Return Receipt for Merchandise
 Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee) *72734* Yes

December 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
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January 2016

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January 2015

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February 2015

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March 2015

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April 2015

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June 2015

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July 2015

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August 2015

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September 2015

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October 2015

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November 2015

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December 2015

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January 2016

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February 2016

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7013 1090 0001 6983 2002

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CERTIFIED MAIL™ RECEIPT
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OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.73



Sent To *United States Fish & Wildlife*
 Street, Apt. No., or PO Box No. *110 S Amity Rd Suite 300*
 City, State, ZIP+4 *Conway, AR 72032*

PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
US Fish & Wildlife
Mr C. Davidson
110 S Amity Road
Suite 300
Conway AR 72032-8975

COMPLETE THIS SECTION ON DELIVERY

A. Signature *[Signature]* Agent Addressee

B. Received by (Printed Name) *P. Stracke* C. Date of Delivery *11-2-15*

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type
 Certified Mail® Priority Mail Express™
 Registered Return Receipt for Merchandise
 Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) **7013 1090 0001 6983 2002**



December 2015

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January 2016

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January 2015

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February 2015

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March 2015

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April 2015

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June 2015

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August 2015

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October 2015

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December 2015

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January 2016

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7013 1090 0001 6983 1999

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OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.73



Sent To *US Army Corps of Engineers*
 Street, Apt. No. or PO Box No. *PO Box 867*
 City, State, ZIP+4 *Little Rock, AR*
 PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
US Army Corps of Engineers
Mr. J. Harris
Little Rock District
PO Box 867
Little Rock, AR
72203-1087

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
Shalima Rideout

B. Received by (Printed Name) *Shalima Rideout* C. Date of Delivery *12/03/15*

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type
 Certified Mail® Priority Mail Express™
 Registered Return Receipt for Merchandise
 Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) **7013 1090 0001 6983 1999**



December 2015

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January 2016

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January 2015

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February 2015

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March 2015

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July 2015

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August 2015

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October 2015

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January 2016

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February 2016

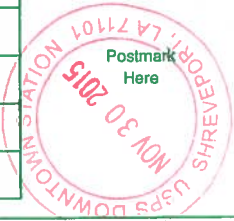
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7013 1090 0001 6983 1982

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OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.73



Sent To Northwest Ark Regional Airport
 Street, Apt. No.; or PO Box No. 1 Airport Blvd.
 City, State, ZIP+4 Bentonville Ark
 PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 		<p>A. Signature <i>x Sherri Steele</i> <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Sherri Steele</i></p> <p>C. Date of Delivery <i>12/03/15</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>1. Article Addressed to: <u>Northwest Arkansas Regional Airport</u> <u>Mr C. Katcher</u> <u>1 Airport Blvd.</u> <u>Bentonville AR 72712</u></p>		<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p>	
<p>2. Article Number (Transfer from service label) 7013 1090 0001 6983 1982</p>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
<p>PS Form 3811, July 2013 Domestic Return Receipt</p>			



December 2015

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January 2016

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February 2015

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March 2015

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April 2015

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July 2015

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August 2015

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September 2015

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October 2015

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November 2015

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December 2015

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January 2016

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February 2016

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7013 1090 0001 6983 1944

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For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.73

Postmark Here
 NOV 30 2015
 USPS DOWNTOWN STATION 10117 LA TAYLOR SHREVEPORT, LA

Sent To *The Honorable Robert Clinard*
 Street, Apt. No.; or PO Box No. *215 E. Central Ave*
 City, State, ZIP+4 *Bentonville, AR*

PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>X <i>Rosemary Jones</i></p> <p>B. Received by (Printed Name) <i>ROSEMARY JONES</i></p> <p>C. Date of Delivery <i>12-3-15</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No if YES, enter delivery address below:</p>
<p>1. Article Addressed to:</p> <p><i>Honorable Robert Clinard Benton County Judge 215 E. Central Ave Bentonville, AR 72712</i></p>	<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p>
<p>2. Article Number</p> <p><i>(Transfer from service label)</i> 7013 1090 0001 6983 1944</p>	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>

PS Form 3811, July 2013

Domestic Return Receipt



December 2015

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January 2016

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January 2015

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February 2015

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March 2015

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April 2015

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May 2015

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June 2015

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July 2015

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August 2015

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September 2015

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November 2015

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December 2015

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January 2016

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February 2016

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7013 1090 0001 6983 1920

U.S. Postal Service™ *AHS ENV MILLER*
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com
OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.73



Sent To *Ark Dept. of Health*
 Street, Apt. No., or PO Box No. *4815 West Markham*
 City, State, ZIP+4 *Little Rock, AR*
 PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Arkansas Dept of Health
Mr L. Godfrey
4815 West Markham
Little Rock, AR 72205

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
Dan Seaton
 B. Received by (Printed Name) *Dan Seaton*
 C. Date of Delivery

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type
 Certified Mail® Priority Mail Express™
 Registered Return Receipt for Merchandise
 Insured Mail Collect on Delivery
 4. Restricted Delivery (Extra Fee) Yes

2. Article Number (Transfer from service label) **7013 1090 0001 6983 1920**



December 2015

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January 2016

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February 2015

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April 2015

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May 2015

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June 2015

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July 2015

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August 2015

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September 2015

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October 2015

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November 2015

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December 2015

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January 2016

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February 2016

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7013 1090 0001 6983 1951

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CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.73



Sent to *Benton County Regional*
 Street, Apt. No., or PO Box No. *5702 Brookside Rd.*
 City, State, ZIP *Bentonville AR.*
 PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Benton Co RSWMD
Ms W. Cravens
5702 Brookside Rd
Bentonville AR 72712

2. Article Number (Transfer from service label) **7013 1090 0001 6983 1951**

PS Form 3811, July 2013 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
Jayme Aland
 B. Received by (Printed Name) *Jayme Aland*
 C. Date of Delivery *12/3/15*
 D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type
 Certified Mail® Priority Mail Express™
 Registered Return Receipt for Merchandise
 Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee) Yes



December 2015

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January 2016

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February 2015

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July 2015

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August 2015

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September 2015

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October 2015

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November 2015

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January 2016

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February 2016

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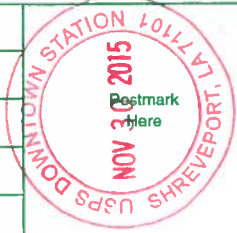
7013 1090 0001 6983 1968

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CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.73



Sent To *Federal Aviation Admin*
 Street, Apt. No., or PO Box No. *10101 Hillwood Parkway*
 City, State, ZIP+4 *Ft Worth TX*

PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
*FAA
 Southwest Regions Airports
 District
 Mr W. Mitchell
 10101 Hillwood Parkway
 Ft. Worth TX 76137-4298*

2. Article Number (Transfer from service label) **7013 1090 0001 6983 1968**

COMPLETE THIS SECTION ON DELIVERY

A. Signature *[Signature]* Agent Addressee

B. Received by (Printed Name) _____ C. Date of Delivery *12-02-15*

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below: _____

3. Service Type
 Certified Mail® Priority Mail Express™
 Registered Return Receipt for Merchandise
 Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee) Yes

December 2015

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January 2016

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January 2015

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February 2015

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March 2015

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April 2015

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May 2015

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June 2015

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July 2015

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August 2015

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September 2015

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October 2015

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November 2015

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December 2015

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January 2016

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February 2016

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CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.73

Postmark Here
 NOV 30 2015
 DOWNTOWN STATION, LITTLE ROCK, AR

Sent To
 Mr. Francis McSwain
 Street, Apt. No., or PO Box No. 323 Center St.
 City, State, ZIP+4 Little Rock, AR

PS Form 3800, August 2006 See Reverse for Instructions

7013 1090 0001 6983 1937

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 AR Natural Heritage Comm
 Ms F. McSwain
 1500 Tower Building
 323 Center St.
 Little Rock, AR 72201

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 x *Jean Battista* Agent Addressee

B. Received by (Printed Name)
 JEAN BATISTO

C. Date of Delivery
 12 2 15

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail® Priority Mail Express™
 Registered Return Receipt for Merchandise
 Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) **7013 1090 0001 6983 1937**

December 2015

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January 2016

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January 2015

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February 2015

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March 2015

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April 2015

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May 2015

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June 2015

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July 2015

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August 2015

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September 2015

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October 2015

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November 2015

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December 2015

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27	28	29	30	31		

January 2016

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

February 2016

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29				

U.S. Postal Service™ *AAS ENV MILLER*
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ <i>6.73</i>



Sent To *Arkansas Game & Fish Comm*
 Street, Apt. No., or PO Box No. *2 Natural Resources De*
 City, State, ZIP+4 *Little Rock Ar.*

PS Form 3800, August 2006 See Reverse for Instructions

7013 1090 0001 6983 1913

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Arkansas Game & Fish Comm
Mr. Mike Knoedl
2 Natural Resources De
Little Rock AR 72205

2. Article Number (Transfer from service label) **7013 1090 0001 6983 1913**

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
X Richard Boyle Addressee

B. Received by (Printed Name) *RICHARD BOYLES* C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below. No

DEC 2 2015

3. Service Type
 Certified Mail Priority Mail Express™
 Registered Return Receipt for Merchandise
 Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee) Yes

APPENDIX E
Property Deeds

PROPERTY USE AGREEMENT

This PROPERTY USE AGREEMENT is made and entered into this 6th day of MAY, 2016 by and between SOUTHWESTERN ELECTRIC POWER COMPANY, a Delaware corporation ("SWEPCO"), and ORVILLE BARTLEY, TRUSTOR AND/OR TRUSTEE OF THE ORVILLE BARTLEY REVOCABLE LIVING TRUST DATED MARCH 6, 1998 ("BARTLEY").

WITNESSETH:

WHEREAS, by Trustee's Warranty Deed dated December 30, 2006, BARTLEY conveyed certain real estate to FRANKLIN REAL ESTATE COMPANY ("FRECO"), for the benefit of SWEPCO and Arkansas Electric Cooperative Corporation, which deed is of record in the Benton County, Arkansas Clerk's office, at Deed Book 2006, Page 842. Said deed is subject to a life estate retained and reserved for the benefit of Orville Bartley; and

WHEREAS, SWEPCO desires to use a portion of the property for plant operations and;

WHEREAS, BARTLEY has agreed to allow SWEPCO to use a portion of the property for plant operations;

NOW, THEREFORE, in consideration of the mutual covenants and agreements contained herein, the parties agree as follows:

SWEPCO, its successors and assigns, agents, employees, contractors and invitees shall have unrestricted, permanent access to the land shown on the plat attached hereto identified as "Life Estate Area Needed for Landfill Expansion" and "Life Estate Area Currently Used for Landfill" in order to operate existing landfill facilities and to perform geotechnical work and eventual landfill construction and operation of a lateral landfill expansion. Said tracts are shown and delineated in dark blue and white outlined areas on the map marked Exhibit A, attached hereto. In exchange, Bartley will have continued access to the life estate property and access to SWEPCO property for livestock grazing located north and/or west of the existing barbed wire fence, delineated by a red line on the map marked Exhibit A. The northwest corner of the area identified as "New Landfill Cells To Begin Development No Earlier Than 2021" which is north and west of the existing barbed wire fence (red line on map) will be available for grazing until lateral landfill construction begins, which is anticipated no earlier than 2021.

Executed this 6th day of MAY, 2016.

SOUTHWESTERN ELECTRIC POWER COMPANY

By: P. Todd Ireland
P. Todd Ireland
Manager, Real Estate Asset Management
American Electric Power Service Corporation
Authorized Signer

ORVILLE BARTLEY

Orville Bartley

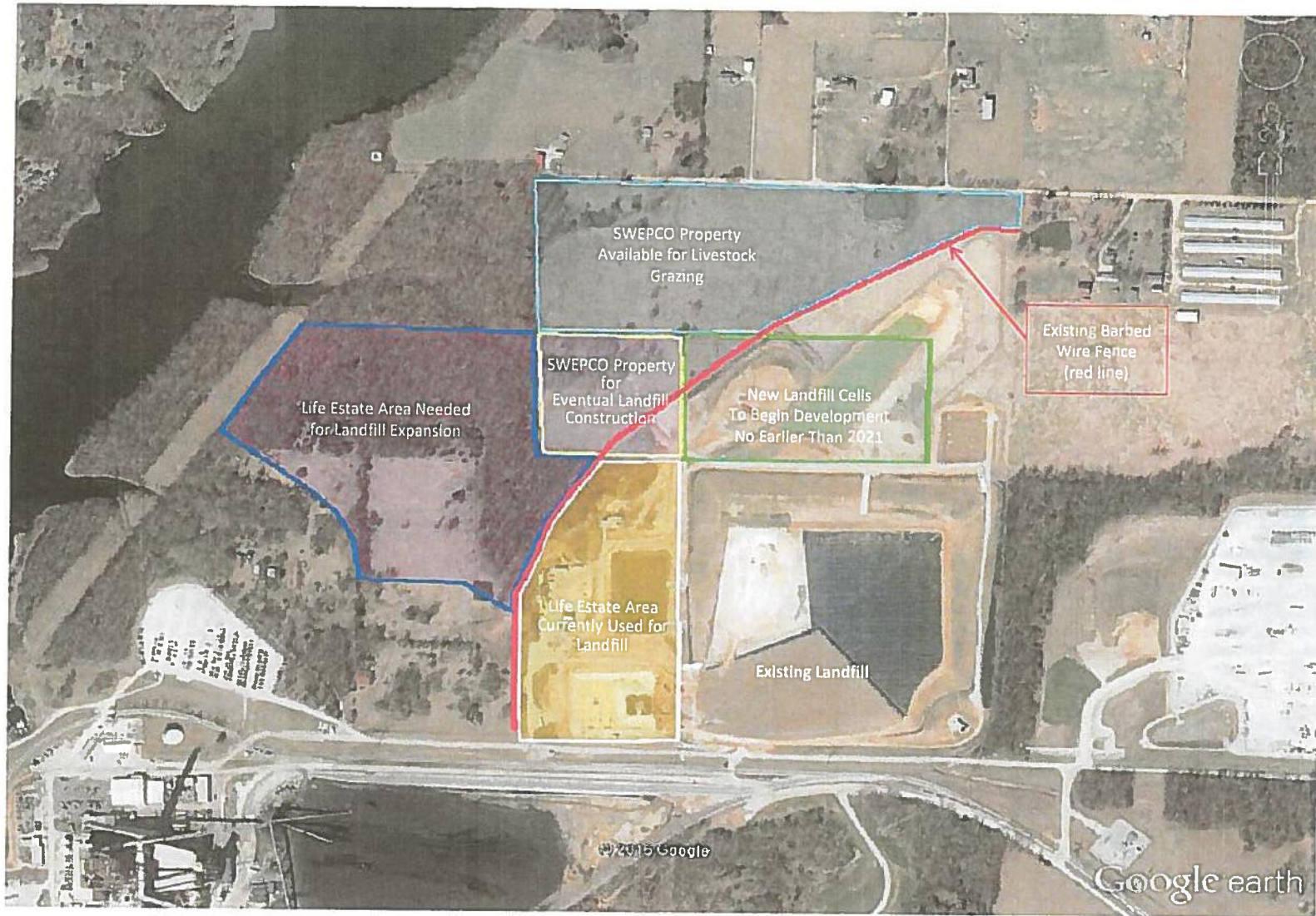
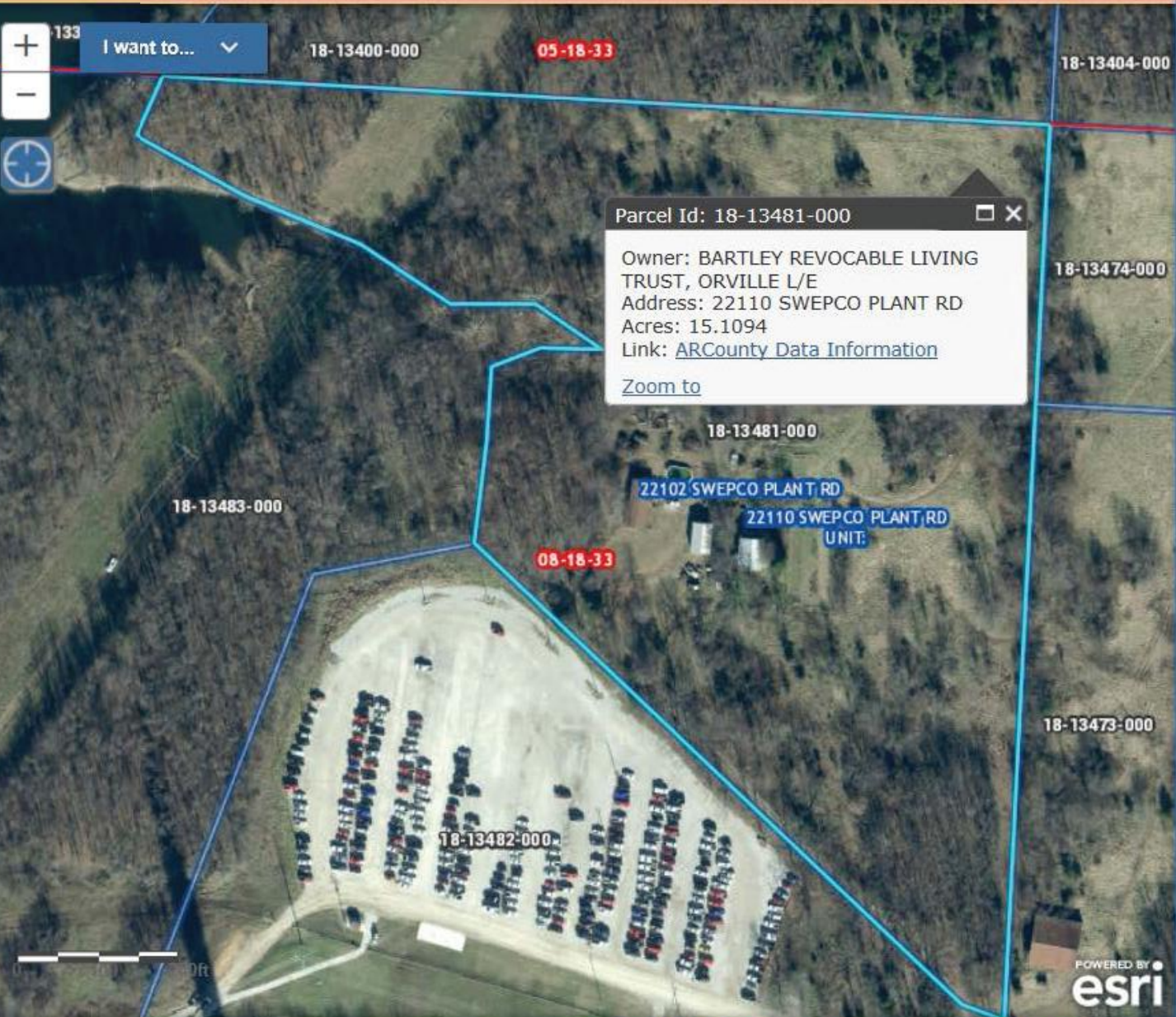


Exhibit "A"

Benton County GIS: Parcel Map



+ 133 I want to...
-
+



Parcel Id: 18-13481-000
Owner: BARTLEY REVOCABLE LIVING TRUST, ORVILLE L/E
Address: 22110 SWEPCO PLANT RD
Acres: 15.1094
Link: [ARCounty Data Information](#)
Zoom to

Layers

- Sections
- Parcels #
- Addresses
- School Districts
- County Boundary

Options

Transparency:

Lat: 36.259759°N Lon: 94.524554°W Scale: 1 : 2257 ft | Zoom: 8



Parcel Key 119497

OCCUPANCY				STORY HEIGHT				GRADE		AGE				LIVING AREA		BASEMENT		BUILDING COMPUTATION																																																										
Single Family	Multi Family	Other	Mobile Home	One	SL	One+	Two	Basic Grade	Built				First Floor	Second Floor	Unfinished		Base Price	0.00																																																										
								Adj %	Age		Future				Fin w/o Part		Grade Adj Factor	0.000																																																										
								Future Grade	REL	0	Future				Fin with Part		Grade +/- Factor	0.000																																																										
								Future Adj %							Area	0	Story Height Factor	0.000																																																										
EXTERIOR WALLS				HEAT & AC																		Composite Factor		0.000																																																				
Masonry Veneer				Central																		Adj Per Sqft Price		0.00																																																				
Comb Mas/Frame				Hot Air Forced																		Total Base Sq Footage		0																																																				
Standard Frame				Floor/Wall Furnace																		Base Value		0.00																																																				
Lowcost Frame				Elec Base/Ceiling																		<th colspan="5">ADJUSTMENTS TO BASE</th>				ADJUSTMENTS TO BASE																																																		
				Hot Water/Steam																																																																								
				None				<th colspan="5">ADDITIVE ITEMS</th>				ADDITIVE ITEMS																																																																
				None																																																																								
FOUNDATION				FLOOR COVER																		<table border="1"> <thead> <tr> <th>Item</th> <th>Qty</th> <th>Rate</th> <th>Factor</th> <th>Total</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>					Item	Qty	Rate	Factor	Total																																													
Item	Qty	Rate	Factor	Total																																																																								
Slab				Carpet/Vinyl																																																																								
Closed Piers				Hard WD/SHT																																																																								
Open Piers				Hard WD/PQT																																																																								
FLOOR STRUCTURE				Linoleum																																																																								
Elevated Slab				Ceramic																																																																								
Wood Subfloor				Stone																																																																								
Slab on Grade				Softwood																																																																								
ROOF TYPE				None																																																																								
Hip		Gable		Total Area				0																																																																				
Mansard		Flat		PLUMBING																																																																								
Gambrel		Dormer		Full Bath (3F)																																																																								
Arch		Shed		Half Bath (2F)																																																																								
ROOF COVER				Extra Charges																																																																								
Asphalt		Fbrglass		Rough-ins																																																																								
Wd Shng		Shakes		None				X																																																																				
Tile		Roll/Mtl																																																																										
Other		Galv Alm		FIREPLACE																																																																								
Area				Sgl-1S		Dbi-1S																																																																						
INSULATION				Sgl-2S		Dbi-2S																																																																						
Floor				Low	Avg	Good																																																																						
Wall																																																																												
Ceiling																																																																												

Sketch by Apex IV™



YARD AND OTHER IMPROVEMENTS									
Item	Qty	Grade	Age	Rate	REL %	Loc Fact	HS	Value	
DWG FLAT	1,000	7		5.00	0	1.000	X	5,000	
OP2 FLAT 8 x26	208	7		5.00	0	1.000	X	1,040	
CALCULATION SUMMARY									
Replacement Cost New									0
Remaining Life %									0
RCNLD									0
Location Factor									1.000
Adjusted Value									0
Total OBYI									6,040
Total Value									6,040
Adjustment Factor									1.000
Total of all OBYI Items:									6,040
Final Value									6,040

Parcel Key 119497

OCCUPANCY				STORY HEIGHT				GRADE		AGE				LIVING AREA		BASEMENT		BUILDING COMPUTATION															
Single Family	Multi Family	Other	Mobile Home	One	SL	One+	Two	Basic Grade	Built				First Floor	Second Floor	Unfinished		Base Price	0.00															
								Adj %	Age		Future				Fin w/o Part		Grade Adj Factor	0.000															
								Future Grade	REL		Future				Fin with Part		Grade +/- Factor	0.000															
								Future Adj %							Area	0	Story Height Factor	0.000															
EXTERIOR WALLS				HEAT & AC																		Composite Factor		0.000									
Masonry Veneer				Central																		Adj Per Sqft Price		0.00									
Comb Mas/Frame				Hot Air Forced																		Total Base Sq Footage		0									
Standard Frame				Floor/Wall Furnace																		Base Value		0.00									
Lowcost Frame				Elec Base/Ceiling																		<th colspan="4">ADJUSTMENTS TO BASE</th>				ADJUSTMENTS TO BASE							
				Hot Water/Steam																													
				None																													
FOUNDATION				FLOOR COVER				<p>Sketch by Apex IV™</p>														<th colspan="4">ADDITIVE ITEMS</th>				ADDITIVE ITEMS							
Slab				Carpet/Vinyl																													
Closed Piers				Hard WD/SHT																													
Open Piers				Hard WD/PQT																													
FLOOR STRUCTURE				Linoleum																													
Elevated Slab				Ceramic																													
Wood Subfloor				Stone																													
Slab on Grade				Softwood																													
ROOF TYPE				None																													
Hip		Gable		Total Area																						0							
ROOF COVER				Extra Charges																													
Asphalt	Fbrglass			Rough-ins																													
Wd Shng	Shakes			None																													
Tile	Roll/Mtl																																
Other	Galv Alm			FIREPLACE																													
				Sgl-1S		Dbi-1S																											
INSULATION				Sgl-2S		Dbi-2S																											
				Low	Avg	Good																											

Sketch by Apex IV™

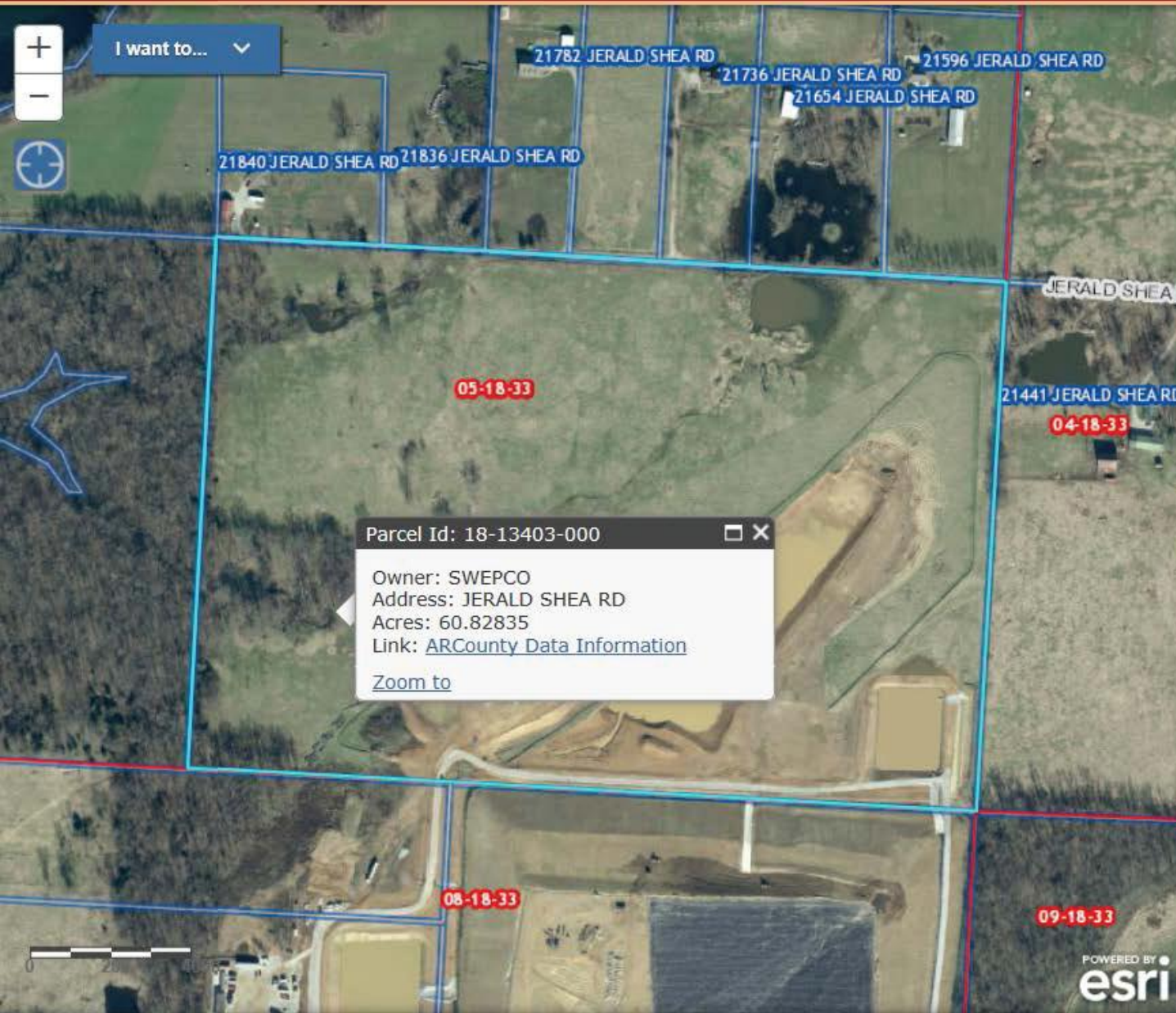


07/20/2015

YARD AND OTHER IMPROVEMENTS									
Item	Qty	Grade	Age	Rate	REL %	Loc Fact	HS	Value	
LEAN FLAT 12 x32	384	7		0.50	0	1.000		192	
SHED NCV	1	0			0	1.000		0	
OBF NCV	1	0			0	1.000		0	
BARN FLAT 40 x30	1,200	7		0.50	0	1.000		600	
BARN FLAT 28 x32	896	7		0.50	0	1.000		448	
UB4-X	912	6	6	7.32	86	1.000	X	5,741	
CALCULATION SUMMARY									
Replacement Cost New									0
Remaining Life %									
RCNLD									0
Location Factor									1.000
Adjusted Value									0
Total OBYI									6,981
Total Value									6,981
Adjustment Factor									1.000
Final Value									6,981
Total of all OBYI Items:									6,981



Benton County GIS: Parcel Map



Parcel Id: 18-13403-000

Owner: SWEPCO
Address: JERALD SHEA RD
Acres: 60.82835
Link: [ARCounty Data Information](#)
[Zoom to](#)

Layers

Layers



- Sections
- Parcels #
- Addresses
- School Districts
- County Boundary

Options

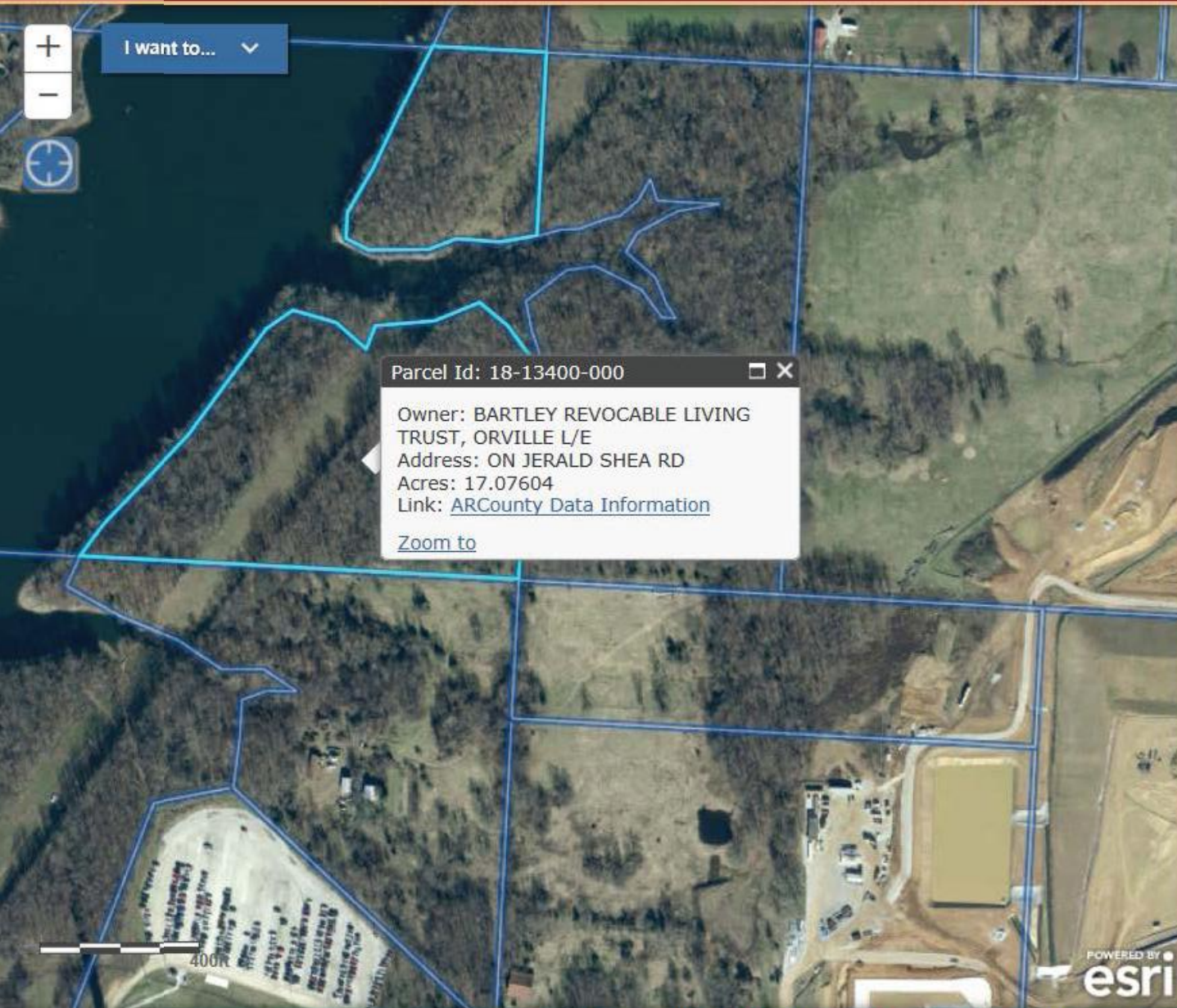
Transparency:

Lat: 36.262832°N Lon: 94.518671°W Scale: 1 : 0.85 mi | Zoom: 7

Parcel Key 119356

OCCUPANCY				STORY HEIGHT				GRADE		AGE				LIVING AREA		BASEMENT		BUILDING COMPUTATION															
Single Family	Multi Family	Other	Mobile Home	One	SL	One+	Two	Basic Grade		Built				First Floor	Second Floor	Unfinished		Base Price	0.00														
								Adj %		Age		Future				Fin w/o Part		Grade Adj Factor	0.000														
								Future Grade		REL		Future				Fin with Part		Grade +/- Factor	0.000														
								Future Adj %								Area	0	Story Height Factor	0.000														
EXTERIOR WALLS				HEAT & AC				<div style="text-align: center;">  <p>Sketch by Apex IV™</p> </div>										BUILDING COMPUTATION															
Masonry Veneer				Central																								Composite Factor	0.000				
Comb Mas/Frame				Hot Air Forced																								Adj Per Sqft Price	0.00				
Standard Frame				Floor/Wall Furnace																								Total Base Sq Footage	0				
Lowcost Frame				Elec Base/Ceiling																								Base Value	0.00				
				Hot Water/Steam																								ADJUSTMENTS TO BASE					
				None			X																										
FOUNDATION				FLOOR COVER																													
Slab				Carpet/Vinyl																													
Closed Piers				Hard WD/SHT																													
Open Piers				Hard WD/PQT																													
FLOOR STRUCTURE				Linoleum																													
Elevated Slab				Ceramic																													
Wood Subfloor				Stone																													
Slab on Grade				Softwood																													
ROOF TYPE				None																													
Hip		Gable		Total Area			0																										
Mansard		Flat		PLUMBING																													
Gambrel		Dormer		Full Bath (3F)																													
Arch		Shed		Half Bath (2F)																													
ROOF COVER				Extra Charges																													
Asphalt		Fbrglass		Rough-ins																													
Wd Shng		Shakes		None			X																										
Tile		Roll/Mtl																															
Other		Galv Alm		FIREPLACE																													
Area				Sgl-1S		Dbi-1S																											
INSULATION				Sgl-2S																													
Floor				Low	Avg	Good																											
Wall																																	
Ceiling																																	
																	YARD AND OTHER IMPROVEMENTS																
																	Item	Qty	Grade	Age	Rate	REL %	Loc Fact	HS	Value								
CALCULATION SUMMARY																																	
Replacement Cost New										0																							
Remaining Life %																																	
RCNLD										0																							
Location Factor										1.000																							
Adjusted Value										0																							
Total OBYI										0																							
Total Value										0																							
Adjustment Factor										1.000																							
Total of all OBYI Items:										Final Value				0																			

Benton County GIS: Parcel Map



Parcel Id: 18-13400-000

Owner: BARTLEY REVOCABLE LIVING TRUST, ORVILLE L/E
Address: ON JERALD SHEA RD
Acres: 17.07604
Link: [ARCounty Data Information](#)

[Zoom to](#)

Layers

- Sections
- Parcels #
- Addresses
- School Districts
- County Boundary

Options

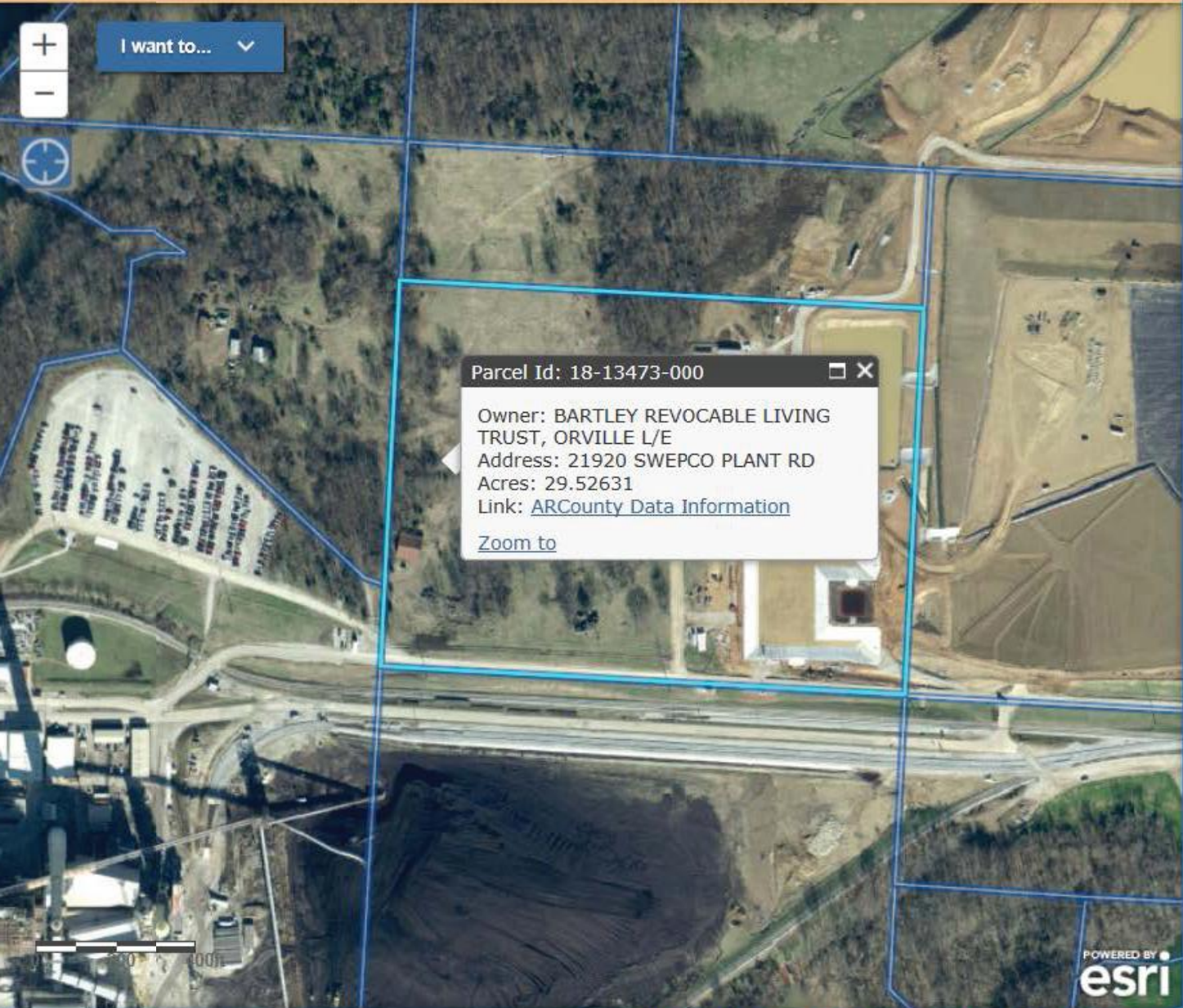
Transparency:

Lat: 36.262663°N Lon: 94.524784°W Scale: 1 : 0.85 mi | Zoom: 7

Benton County GIS: Parcel Map



+
-
I want to... ▾
+



Parcel Id: 18-13473-000 ✖

Owner: BARTLEY REVOCABLE LIVING TRUST, ORVILLE L/E
Address: 21920 SWEPCO PLANT RD
Acres: 29.52631
Link: [ARCounty Data Information](#)
[Zoom to](#)

Layers

- Layers
- Sections
 - Parcels #
 - Addresses
 - School Districts
 - County Boundary

Options

Transparency:



Lat: 36.258483°N Lon: 94.523132°W Scale: 1 : 0.85 mi | Zoom: 7

OWNERSHIP RECORD AND DESCRIPTION						APPRAISAL SUMMARY											
Owner Name BARTLEY REVOCABLE LIVING TRUST, ORVILLE L/E Property Address 21920 SWEPCO PLANT RD Taxpayer Name Address Exemption Status Non-Exempt						Land 5,850		Improvements 3,750		Total Appraised 9,600							
						Assessed Land 1,170		Assessed Improvements 750		Total Assessed 1,920							
						ASSESSMENT HISTORY (First 6 of 12 records shown)											
						Year	Land	Improvements	Full Value	Effective Value	Homestead?	Comments					
						2012	1,170	750	1,920	1,920	No	A79 VALUE Mass Update - Advance A					
						2011	1,170	750	1,920	1,920	No	2011 REAPP Mass Update - Paste Am					
						2010	1,020	840	1,860	1,860	No	APR/RVW/JAW					
						2009	1,020	0	1,020	1,020	No	2009 ADVANCE HISTORY Mass Updat					
						2008	1,020	0	1,020	1,020	No	2008 REAPP Mass Update - Paste Am					
						2007	960	0	960	960	No	A79 VALUE Mass Update - Advance A					
LEGAL DESCRIPTION						OWNERSHIP RECORD (First 6 of 6 records shown)											
Lot Block / Lat/Long / Subdivision 08-18-33-RURAL School District 19 Nbhd Code SWBC01 Market 3000 Acres 30.07 Timber 3.21 Old Parcel Legal Description 08-18-33						Stamps	Price	Grantor/Grantee			Date Sold	Book/Page	Type	Remarks			
						0	0	2009 COMBO PROJECT TO NO RESPONSE			12/30/09	NA/NA	OTHE	OFF FORM			
						0	0	FRANKLIN RE TO SWEPCO/AR ELEC			09/29/08	2008/38413	WD				
						0	0	RE: BARTLEY			09/24/07	2007/38951	AFF	SCRIVENERS ERRO			
						3950.1	1197000	BARTLEY TR TO FRANKLIN R/E (91.59AC)			01/05/06	2006/842	TRD	CORR BY 2006/2481			
						0	0	BARTLEY TO BARTLEY TR			05/24/04	2004/22997	QCD	QCD			
						0	0	EULA S BARTLEY DOD 1/27/97			03/25/98	98/28137	DC	DC			
THIRTY (30) ACTES SQUARELY OFF OF THE SOUTH SIDE OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 8, TOWNSHIP 18 NORTH OF RANGE 33 WEST, BENTON COUNTY, ARKANSAS.						BUILDING PERMIT RECORD					IMPROVEMENT DISTRICTS						
						Date	Amount	Purpose			District	Amount	Comment				
						LAND RECORD											
TREND	STREET	UTILITIES	TOPO	LANDSCAPING		Use Code	Soil Code	Qtr Sec	Front	Rear	Depth	Depth %	Size	Rate	Adjustment	Value	
Improving	Concrete	No Water	High	Good		PASTURE	CNB(12)	NE					16.96 Ac	255.00	1.00	4,324	
Static	Asphalt	No Sewer	Low	Average		PASTURE	CS(4)	NE					0.48 Ac	205.00	1.00	98	
Declining	G & G	No Gas	Rough	Poor		PASTURE	LRC(13)	NE					8.97 Ac	215.00	1.00	1,928	
None	Gravel	No Electric	Flat	None		PASTURE	NOD(14)	NE					0.2 Ac	170.00	1.00	34	
	Dirt	No Phone				PASTURE	PEC(13)	NE					0.25 Ac	215.00	1.00	53	
						TIMBER	CNB(12)	NE					2 Ac	145.00	1.00	290	
						TIMBER	CS(4)	NE					0.81 Ac	105.00	1.00	85	
						TIMBER	LRC(13)	NE					0.28 Ac	140.00	1.00	39	
						TIMBER	PEC(13)	NE					0.12 Ac	140.00	1.00	16	
COMMENTS																	
ALSO OWNS ADJ 18-13474-000; RA16																	
REVIEW RECORD						USE CODES											
Action	Date	By				A-RGL											
PRINTED	05/04/16	WEB				B-RES											
ENTERED	07/22/15	NXR				IMP											
INSPECTED	07/20/15	CAH				L-AGRI											
NOTICE	07/13/11	GLB															
LAND-CAMA	03/08/11	CDM															
LAND	03/03/11	RGL/SMA															
ENTERED	01/23/09	SBL															
INSPECTED	12/18/08	JWS															
						TOTALS					Acres	30.07			6,867		

Parcel Key 119485

OCCUPANCY				STORY HEIGHT				GRADE		AGE				LIVING AREA		BASEMENT		BUILDING COMPUTATION					
Single Family	Multi Family	Other	Mobile Home	One	SL	One+	Two	Basic Grade	Built				First Floor	Second Floor	Unfinished		Base Price	0.00					
								Adj %	Age		Future				Fin w/o Part		Grade Adj Factor	0.000					
								Future Grade	REL	0	Future				Fin with Part		Grade +/- Factor	0.000					
								Future Adj %							Area	0	Story Height Factor	0.000					
EXTERIOR WALLS				HEAT & AC																			
Masonry Veneer				Central																			
Comb Mas/Frame				Hot Air Forced																			
Standard Frame				Floor/Wall Furnace																			
Lowcost Frame				Elec Base/Ceiling																			
				Hot Water/Steam																			
				None				X															
FOUNDATION				FLOOR COVER																			
Slab				Carpet/Vinyl																			
Closed Piers				Hard WD/SHT																			
Open Piers				Hard WD/PQT																			
FLOOR STRUCTURE				Linoleum																			
Elevated Slab				Ceramic																			
Wood Subfloor				Stone																			
Slab on Grade				Softwood																			
ROOF TYPE				None																			
Hip		Gable		Total Area				0															
Mansard		Flat		PLUMBING																			
Gambrel		Dormer		Full Bath (3F)																			
Arch		Shed		Half Bath (2F)																			
ROOF COVER				Extra Charges																			
Asphalt		Fbrglass		Rough-ins																			
Wd Shng		Shakes		None				X															
Tile		Rol/Mtl																					
Other		Galv Alm		FIREPLACE																			
Area				Sgl-1S		Dbi-1S																	
INSULATION				Sgl-2S		Dbi-2S																	
Floor				Low		Avg		Good															
Wall																							
Ceiling																							

Sketch by Apex IV™



YARD AND OTHER IMPROVEMENTS									
Item	Qty	Grade	Age	Rate	REL %	Loc Fact	HS	Value	
WELL HSE NCV	0			0.00	0	1.000	X	0	
DWG NCV	0	7		0.00	0	1.000	X	0	
DWG NCV		7		0.00	0	1.000		0	
OP/OP2 NCV	0	7		0.00	0	1.000	X	0	
CALCULATION SUMMARY									
Replacement Cost New								0	
Remaining Life %								0	
RCNLD								0	
Location Factor								1.000	
Adjusted Value								0	
Total OBYI								0	
Total Value								0	
Adjustment Factor								1.000	
Total of all OBYI Items:								0	
Final Value								0	

Parcel Key 119485

OCCUPANCY				STORY HEIGHT				GRADE		AGE				LIVING AREA		BASEMENT		BUILDING COMPUTATION									
Single Family	Multi Family	Other	Mobile Home	One	SL	One+	Two	Basic Grade		Built				First Floor	Second Floor	Unfinished		Base Price	0.00								
								Adj %		Age		Future				Fin w/o Part		Grade Adj Factor	0.000								
								Future Grade		REL		Future				Fin with Part		Grade +/- Factor	0.000								
								Future Adj %								Area	0	Story Height Factor	0.000								
EXTERIOR WALLS				HEAT & AC																Composite Factor		0.000					
Masonry Veneer				Central																Adj Per Sqft Price		0.00					
Comb Mas/Frame				Hot Air Forced																Total Base Sq Footage		0					
Standard Frame				Floor/Wall Furnace																Base Value		0.00					
Lowcost Frame				Elec Base/Ceiling																ADJUSTMENTS TO BASE							
				Hot Water/Steam																							
				None		X																					
FOUNDATION				FLOOR COVER																							
Slab				Carpet/Vinyl																							
Closed Piers				Hard WD/SHT																							
Open Piers				Hard WD/PQT																							
FLOOR STRUCTURE				ROOF TYPE																							
Linoleum				None																							
Elevated Slab				Ceramic																							
Wood Subfloor				Stone																							
Slab on Grade				Softwood																							
ROOF COVER				PLUMBING																							
Asphalt	Fbrglass			Rough-ins																							
Wd Shng	Shakes			None		X																					
Tile	Roll/Mtl			FIREPLACE																							
Other	Galv Alm			Sgl-1S		DbI-1S																					
INSULATION				YARD AND OTHER IMPROVEMENTS																							
Floor				Low	Avg	Good																					
Wall				Sgl-2S		DbI-2S																					
Ceiling																											
				Area		Total Area		0																			
				Item		Qty	Grade	Age	Rate	REL %	Loc Fact	HS	Value														
				POLE SHED @		8,355		11	1.00	45	1.000		3,760														
				CALCULATION SUMMARY																							
				Replacement Cost New										0													
				Remaining Life %																							
				RCNLD										0													
				Location Factor										1.000													
				Adjusted Value										0													
				Total OBYI										3,760													
				Total Value										3,760													
				Adjustment Factor										1.000													
				Final Value										3,760													
				Total of all OBYI Items:										3,760													

Sketch by Apex IV™

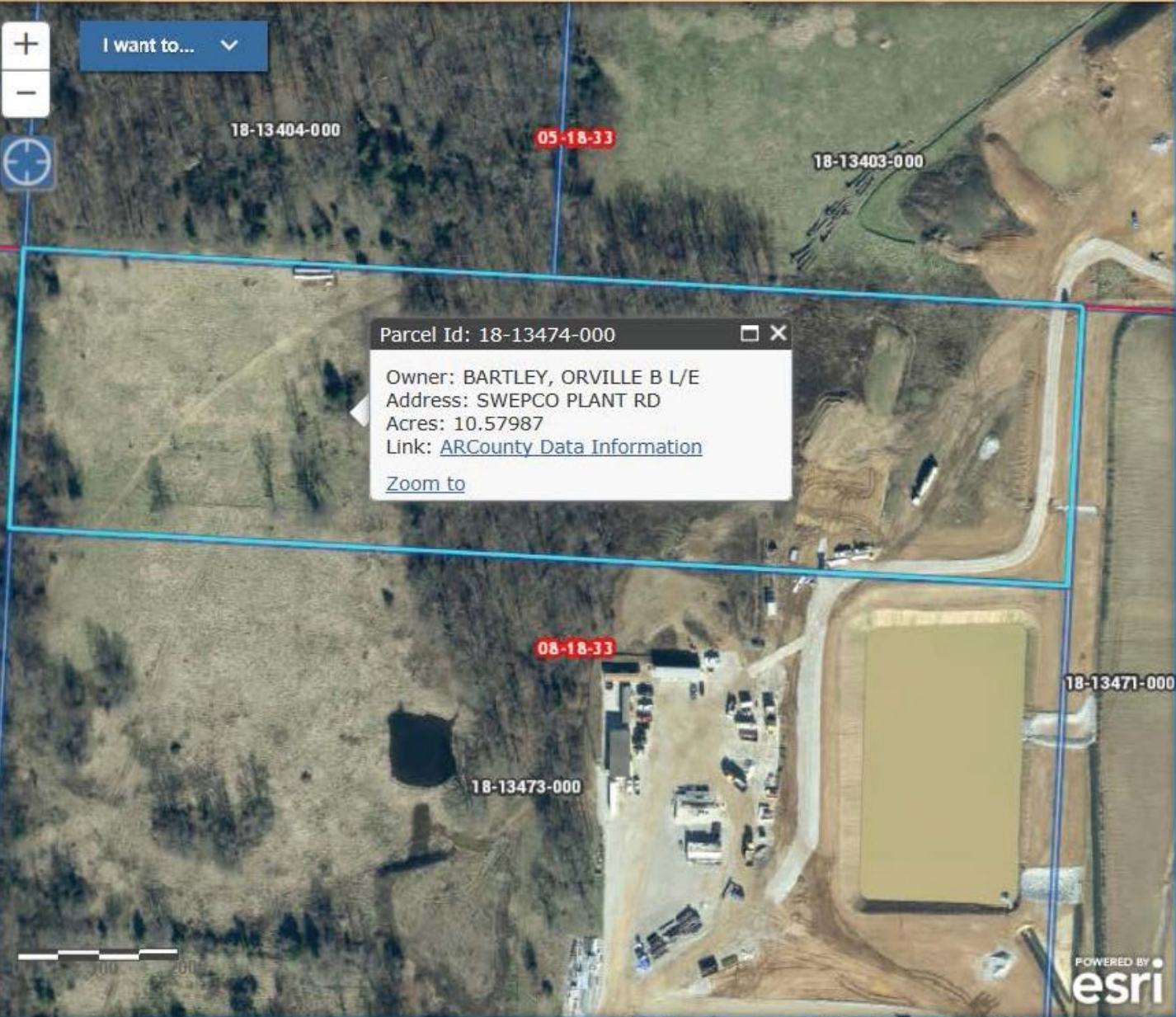
07/23/2015



Benton County GIS: Parcel Map



I want to... ▾



Parcel Id: 18-13474-000 ✕

Owner: BARTLEY, ORVILLE B L/E
Address: SWEPCO PLANT RD
Acres: 10.57987
Link: [ARCounty Data Information](#)
[Zoom to](#)

Layers

- Layers
- Sections
 - Parcels #
 - Addresses
 - School Districts
 - County Boundary

Options

Transparency:

Lat: 36.261136°N Lon: 94.520673°W Scale: 1 : 2257 ft | Zoom: 8

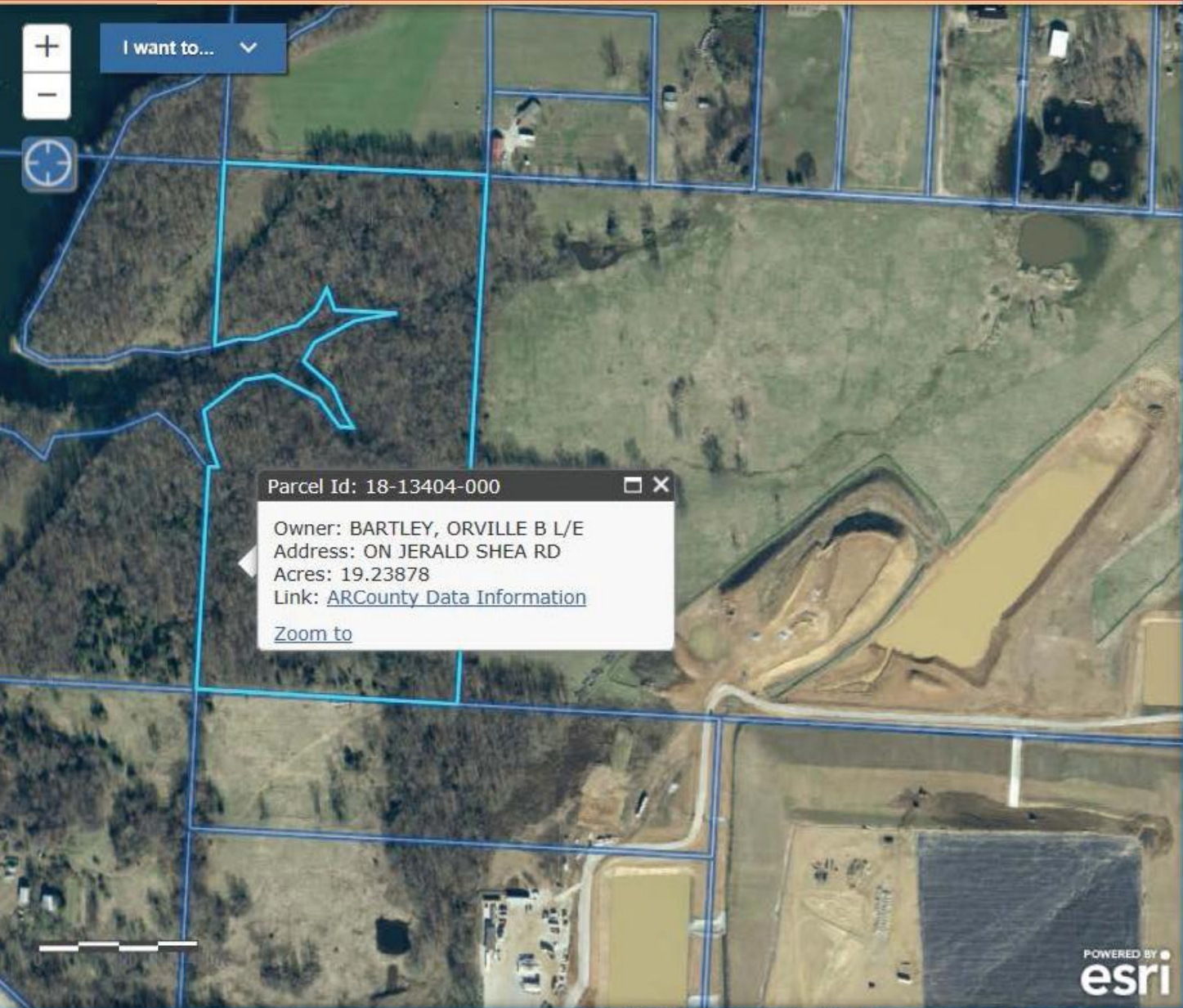
OWNERSHIP RECORD AND DESCRIPTION						APPRAISAL SUMMARY										
Owner Name BARTLEY, ORVILLE B L/E						Land	1,700	Improvements			Total Appraised			1,700		
						Assessed Land	340	Assessed Improvements			Total Assessed			340		
Property Address SWEPCO PLANT RD						ASSESSMENT HISTORY (First 6 of 16 records shown)										
Taxpayer Name Address						Year	Land	Improvements	Full Value	Effective Value	Homestead?	Comments				
						2013	340	0	340	340	No	A79 VALUE Mass Update - Advance A				
						2012	340	0	340	340	No	A79 VALUE Mass Update - Advance A				
						2011	340	0	340	330	No	2011 REAPP Mass Update - Paste Am				
						2010	300	0	300	300	No	APR/RVW/JAW				
						2008	2,800	840	3,640	3,640	No	2008 REAPP Mass Update - Paste Am				
Exemption Status Non-Exempt						2007	3,680	7,040	10,720	8,190	No	A79 VALUE Mass Update - Advance A				
LEGAL DESCRIPTION						OWNERSHIP RECORD										
Lot						Stamps	Price	Grantor/Grantee			Date Sold	Book/Page	Type	Remarks		
Block						0	0	FRANKLIN RE TO SWEPCO/AR ELEC			09/29/08	2008/38413	WD			
Subdivision 08-18-33-RURAL						0	0	RE: BARTLEY			09/24/07	2007/38951	AFF	SCRIVENER'S ERR		
School District 19 Nbh Code SWBC01 Market 3000						0	0	BARTLEY TO FRANKLIN R/E (48.97)			05/16/06	2006/24813	QCD			
Acres 10 Timber 5.01						0	0	EULA S BARTLEY DOD 1/27/97			03/25/98	98/28137	DC	DC		
Old Parcel						0	0	CRISPIN TO BARTLEY			10/07/60	338/2	WD			
Legal Description 08-18-33																
THE NORTH 10 ACRES OFF THE NW Y. OF THE NE Y.. OF SECTION 8, TOWNSHIP 18 NORTH, RANGE 33 WEST, BENTON COUNTY, ARKANSAS, DESCRIBED AS FOLLOWS: BEGINNING AT THE NW CORNER OF THE NW II OF THE NE II OF SECTION 8, AND RUN THENCE SOUTH 20 RODS, THENCE EAST 80 RODS, THENCE NORTH 20 RODS, THENCE WEST 80 RODS TO THE PLACE OF						BUILDING PERMIT RECORD					IMPROVEMENT DISTRICTS					
						Date	Amount	Purpose			District	Amount	Comment			
TREND						LAND RECORD										
Improving	Concrete	No Water	High	Good		Use Code	Soil Code	Qtr Sec	Front	Rear	Depth	Depth %	Size	Rate	Adjustment	Value
Static	Asphalt	No Sewer	Low	Average		PASTURE	CNB(12)	NE					2.38 Ac	255.00	1.00	606
Declining	G & G	No Gas	Rough	Poor		PASTURE	PEC(13)	NE					2.61 Ac	215.00	1.00	561
None	Gravel	No Electric	Flat	None		TIMBER	CNB(12)	NE					2.57 Ac	145.00	1.00	372
	Dirt	No Phone				TIMBER	CS(4)	NE					1.97 Ac	105.00	1.00	206
						TIMBER	PEC(13)	NE					0.47 Ac	140.00	1.00	65
COMMENTS																
PASTURE W/LS; ALSO OWNS ADJ 18-13473-000;																
REVIEW RECORD						USE CODES										
Action	Date	By	A-RGL													
PRINTED	05/04/16	WEB	L-AGRI													
ENTERED	07/22/15	NXR	VAC													
INSPECTED	07/20/15	CAH														
NOTICE	07/13/11	GLB														
LAND-CAMA	03/08/11	CDM														
LAND	03/03/11	RGL/SMA														
RVW-CAMA	12/29/10	GAS														
RVW-APPR	12/16/10	JAW														
TOTALS											Acres	10.00				1,810

OCCUPANCY				STORY HEIGHT				GRADE		AGE				LIVING AREA		BASEMENT		BUILDING COMPUTATION			
Single Family	Multi Family	Other	Mobile Home	One	SL	One+	Two	Basic Grade		Built				First Floor	Second Floor	Unfinished		Base Price			
								Adj %		Age		Future				Fin w/o Part		Grade Adj Factor			
								Future Grade		REL		Future				Fin with Part		Grade +/- Factor			
								Future Adj %								Area		Story Height Factor			
EXTERIOR WALLS				HEAT & AC														BUILDING COMPUTATION			
Masonry Veneer				Central														Composite Factor			
Comb Mas/Frame				Hot Air Forced														Adj Per Sqft Price			
Standard Frame				Floor/Wall Furnace														Total Base Sq Footage			
Lowcost Frame				Elec Base/Ceiling														Base Value			
				Hot Water/Steam														ADJUSTMENTS TO BASE			
				None																	
FOUNDATION				FLOOR COVER																	
Slab				Carpet/Vinyl																	
Closed Piers				Hard WD/SHT																	
Open Piers				Hard WD/PQT																	
FLOOR STRUCTURE				Linoleum																	
Elevated Slab				Ceramic																	
Wood Subfloor				Stone																	
Slab on Grade				Softwood																	
ROOF TYPE				None																	
Hip				Total Area																	
Mansard				Flat				PLUMBING													
Gambrel				Dormer				Full Bath (3F)													
Arch				Shed				Half Bath (2F)													
ROOF COVER				Extra Charges																	
Asphalt				Fbrglass				Rough-ins													
Wd Shng				Shakes				None													
Tile				Rol/Mtl																	
Other				Galv Alm				FIREPLACE													
Area				Sgl-1S				Dbi-1S													
INSULATION				Sgl-2S				Dbi-2S													
Floor				Low				Avg													
Wall								Good													
Ceiling																					
YARD AND OTHER IMPROVEMENTS																					
Item		Qty	Grade	Age	Rate	REL %	Loc Fact	HS	Value												
										CALCULATION SUMMARY											
										Replacement Cost New											
										Remaining Life %											
										RCNLD											
										Location Factor											
										Adjusted Value											
										Total OBYI											
										Total Value											
										Adjustment Factor											
										Final Value											
										Total of all OBYI Items:											

Benton County GIS: Parcel Map



+
-
I want to... ▾
+



Parcel Id: 18-13404-000 □ ×
Owner: BARTLEY, ORVILLE B L/E
Address: ON JERALD SHEA RD
Acres: 19.23878
Link: [ARCounty Data Information](#)
[Zoom to](#)

Layers

- Layers
- Sections
 - Parcels #
 - Addresses
 - School Districts
 - County Boundary

Options

Transparency:



Lat: 36.264765°N Lon: 94.522319°W Scale: 1 : 0.85 mi | Zoom: 7

OWNERSHIP RECORD AND DESCRIPTION						APPRAISAL SUMMARY																
Owner Name BARTLEY, ORVILLE B L/E						Land		2,950		Improvements				Total Appraised		2,950						
						Assessed Land		590		Assessed Improvements				Total Assessed		590						
Property Address ON JERALD SHEA RD						ASSESSMENT HISTORY (First 6 of 13 records shown)																
Taxpayer Name Address Exemption Status Non-Exempt						Year	Land	Improvements	Full Value	Effective Value	Homestead?	Comments										
						2013	590	0	590	590	No	A79 VALUE Mass Update - Advance A										
						2012	590	0	590	590	No	A79 VALUE Mass Update - Advance A										
						2011	590	0	590	550	No	2011 REAPP Mass Update - Paste Am										
						2009	500	0	500	500	No	2009 ADVANCE HISTORY Mass Updat										
						2008	500	0	500	500	No	2008 REAPP Mass Update - Paste Am										
LEGAL DESCRIPTION						2007	460	0	460	460	No	A79 VALUE Mass Update - Advance A										
Lot						OWNERSHIP RECORD (First 6 of 7 records shown)																
Block		Lat/Long /		Stamps	Price	Grantor/Grantee			Date Sold	Book/Page	Type	Remarks										
Subdivision 05-18-33-RURAL				0	0	FRANKLIN RE TO SWEPCO/AR ELEC			09/29/08	2008/38413	WD											
School District 19		Nbhd Code SWBC01 Market 3000		0	0	RE: BARTLEY			09/24/07	2007/38951	AFF	SCRIVENER'S ERR										
Acres 18.9		Timber 17.91		0	0	BARTLEY TO FRANKLIN RE (48.97)			05/16/06	2006/24813	QCD											
Old Parcel				3950.1	1197000	BARTLEY TR TO FRANKLIN R/E (91.59AC)			01/05/06	2006/842	TRD	CORR 2006/24813										
Legal Description 05-18-33				0	0	EULA S BARTLEY DOD 1/27/97			03/25/98	98/28137	DC	DC										
THE WEST HALF OF THE SW 1/4 OF THE SE 1/4 OF SECTION 5, TOWNSHIP 18 NORTH, RANGE 33 WEST, BENTON COUNTY, ARKANSAS. LESS AND EXCEPT THAT PART OF THE ABOVE DESCRIBED PROPERTY DEEDED TO SOUTHWESTERN ELECTRIC POWER COMPANY AND ARKANSAS ELECTRIC COOP. CORP., FILED FOR RECORD						104.5	95000	BARTLEY TO SWEPCO			05/02/75	485/853	WD	WD								
						BUILDING PERMIT RECORD						IMPROVEMENT DISTRICTS										
						Date	Amount	Purpose			District	Amount	Comment									
TREND						LAND RECORD																
Improving	Concrete	No Water	High	Good		Use Code	Soil Code	Qtr Sec	Front	Rear	Depth	Depth %	Size	Rate	Adjustment	Value						
Static	Asphalt	No Sewer	Low	Average		PASTURE	CNB(12)	SE					0.56 Ac	255.00	1.00	142						
Declining	G & G	No Gas	Rough	Poor		PASTURE	NFC(13)	SE					0.43 Ac	215.00	1.00	92						
None	Gravel	No Electric	Flat	None		TIMBER	CNB(12)	SE					4.22 Ac	145.00	1.00	611						
	Dirt	No Phone				TIMBER	CVF(11)	SE					4.54 Ac	115.00	1.00	522						
COMMENTS						TIMBER	NFC(13)	SE					9.13 Ac	140.00	1.00	1,278						
SWEPCO LAKE; ALSO OWNS 18-13400-0 W/LS						TIMBER	CVF(11)	SW					0.02 Ac	115.00	1.00	2						
REVIEW RECORD						USE CODES																
Action	Date	By	A-RGL																			
PRINTED	05/06/16	WEB	L-AGRI																			
ENTERED	07/24/15	CDM	L-LF																			
INSPECTED	07/21/15	CAH	VAC																			
NOTICE	07/13/11	GLB																				
LAND-CAMA	03/08/11	CDM																				
LAND	03/01/11	RGL/SMA																				
ENTERED	02/05/09	SBL																				
INSPECTED	01/12/09	JWS																				
TOTALS												Acres	18.90			2,647						

APPENDIX F
Disclosure Statement

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549**

FORM 10-K

(Mark One)

- ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the fiscal year ended December 31, 2014
- TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the transition period from _____ to _____

Commission File Number	Registrants; States of Incorporation; Address and Telephone Number	I.R.S. Employer Identification Nos.
1-3525	AMERICAN ELECTRIC POWER COMPANY, INC. (A New York Corporation)	13-4922640
1-3457	APPALACHIAN POWER COMPANY (A Virginia Corporation)	54-0124790
1-3570	INDIANA MICHIGAN POWER COMPANY (An Indiana Corporation)	35-0410455
1-6543	OHIO POWER COMPANY (An Ohio Corporation)	31-4271000
0-343	PUBLIC SERVICE COMPANY OF OKLAHOMA (An Oklahoma Corporation)	73-0410895
1-3146	SOUTHWESTERN ELECTRIC POWER COMPANY (A Delaware Corporation) 1 Riverside Plaza, Columbus, Ohio 43215 Telephone (614) 716-1000	72-0323455

Securities registered pursuant to Section 12(b) of the Act:

Registrant	Title of each class	Name of Each Exchange on Which Registered
American Electric Power Company, Inc.	Common Stock, \$6.50 par value	New York Stock Exchange
Appalachian Power Company	None	
Indiana Michigan Power Company	None	
Ohio Power Company	None	
Public Service Company of Oklahoma	None	
Southwestern Electric Power Company	None	

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant American Electric Power Company, Inc. is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrants Appalachian Power Company, Indiana Michigan Power Company, Ohio Power Company, Public Service Company of Oklahoma and Southwestern Electric Power Company, are well-known seasoned issuers, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrants are not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act. Yes No

Indicate by check mark whether the registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether American Electric Power Company, Inc., Appalachian Power Company, Indiana Michigan Power Company, Ohio Power Company, Public Service Company of Oklahoma and Southwestern Electric Power Company have submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (229.405 of this chapter) is not contained herein and will not be contained, to the best of registrants' knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether American Electric Power Company, Inc. is a large accelerated filer, an accelerated filer, a non-accelerated filer or a smaller reporting company. See definitions of 'large accelerated filer', 'accelerated filer' and 'smaller reporting company' in Rule 12b-2 of the Exchange Act. (Check One)

Large accelerated filer	<input checked="" type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/> (Do not check if a smaller reporting company)	Smaller reporting company	<input type="checkbox"/>

Indicate by check mark whether Appalachian Power Company, Indiana Michigan Power Company, Ohio Power Company, Public Service Company of Oklahoma and Southwestern Electric Power Company are large accelerated filers, accelerated filers, non-accelerated filers or smaller reporting companies. See definitions of 'large accelerated filer', 'accelerated filer' and 'smaller reporting company' in Rule 12b-2 of the Exchange Act. (Check One)

Large accelerated filer	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input checked="" type="checkbox"/> (Do not check if a smaller reporting company)	Smaller reporting company	<input type="checkbox"/>

Indicate by check mark if the registrants are shell companies, as defined in Rule 12b-2 of the Exchange Act. Yes No

Appalachian Power Company, Indiana Michigan Power Company, Ohio Power Company, Public Service Company of Oklahoma and Southwestern Electric Power Company meet the conditions set forth in General Instruction I(1)(a) and (b) of Form 10-K and are therefore filing this Form 10-K with the reduced disclosure format specified in General Instruction I(2) to such Form 10-K.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

APCo, I&M, OPCo, PSO and SWEPCo

Omitted pursuant to Instruction I(2)(c).

AEP

Directors, Director Nomination Process and Audit Committee

Certain of the information called for in this Item 10, including the information relating to directors, is incorporated herein by reference to AEP's definitive proxy information statement (which will be filed with the SEC pursuant to Regulation 14A under the Exchange Act) relating to 2015 Annual Meeting of Shareholders (the 2015 Annual Meeting) including under the captions "Election of Directors," "Section 16(a) Beneficial Ownership Reporting Compliance," "AEP's Board of Directors and Committees," "Directors," "Involvement by Mr. Hoaglin in Certain Legal Proceedings" and "Shareholder Nominees for Directors."

Executive Officers

Reference also is made to the information under the caption Executive Officers of the Registrants in Part I, Item 4 of this report.

Code of Ethics

AEP's Principles of Business Conduct is the code of ethics that applies to AEP's Chief Executive Officer, Chief Financial Officer and principal accounting officer. The Principles of Business Conduct is available on AEP's website at www.aep.com. The Principles of Business Conduct will be made available, without charge, in print to any shareholder who requests such document from Investor Relations, American Electric Power Company, Inc., 1 Riverside Plaza, Columbus, Ohio 43215.

If any substantive amendments to the Principles of Business Conduct are made or any waivers are granted, including any implicit waiver, from a provision of the Principles of Business Conduct, to its Chief Executive Officer, Chief Financial Officer or principal accounting officer, AEP will disclose the nature of such amendment or waiver on AEP's website, www.aep.com, or in a report on Form 8-K.

Section 16(a) Beneficial Ownership Reporting Compliance

The information required by this item is incorporated herein by reference to information contained in the definitive proxy statement of AEP for the 2015 Annual Meeting.

ITEM 11. EXECUTIVE COMPENSATION

APCo, I&M, OPCo, PSO and SWEPCo

Omitted pursuant to Instruction I(2)(c).

AEP

The information called for by this Item 11 is incorporated herein by reference to AEP's definitive proxy statement (which will be filed with the SEC pursuant to Regulation 14A under the Exchange Act) relating to the 2015 Annual Meeting including under the captions "Compensation Discussion and Analysis," "Executive Compensation", "Director

Compensation” and “2014 Director Compensation Table”. The information set forth under the subcaption “Human Resources Committee Report” and “Audit Committee Report” should not be deemed filed nor should it be incorporated by reference into any other filing under the Securities Act of 1933, as amended, or the Exchange Act except to the extent we specifically incorporate such report by reference therein.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

APCo, I&M, OPCo, PSO and SWEPCo

Omitted pursuant to Instruction I(2)(c).

AEP

The information relating to Security Ownership of Certain Beneficial Owners is incorporated herein by reference to AEP’s definitive proxy statement (which will be filed with the SEC pursuant to Regulation 14A under the Exchange Act) relating to 2015 Annual Meeting under the caption “Share Ownership of Certain Beneficial Owners and Management” and “Share Ownership of Directors and Executive Officers.”

EQUITY COMPENSATION PLAN INFORMATION

The following table summarizes the ability of AEP to issue common stock pursuant to equity compensation plans as of December 31, 2014:

Plan Category	Number of Securities to be Issued upon Exercise of Outstanding Options Warrants and Rights	Weighted Average Exercise Price of Outstanding Options, Warrants and Rights	Number of Securities Remaining Available for Future Issuance under Equity Compensation Plans (a)
Equity Compensation Plans Approved by Security Holders	—	NA	15,825,643
Equity Compensation Plans Not Approved by Security Holders	—	—	—
Total	—	NA	15,825,643

(a) AEP deducts equity compensation granted in stock units that are paid in cash, rather than AEP common shares, such as AEP’s performance units and deferred stock units, from the number of shares available for future grants under the Amended and Restated American Electric Power System Long-Term Incentive Plan. The number of shares available under this plan would be 2,809,209 higher if equity compensation that is paid in cash were not deducted from this column.

NA Not applicable.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE

APCo, I&M, OPCo, PSO and SWEPCo

Omitted pursuant to Instruction I(2)(c).

AEP

The information called for by this Item 13 is incorporated herein by reference to AEP’s definitive proxy statement (which will be filed with the SEC pursuant to Regulation 14A under the Exchange Act) relating to the 2015 Annual Meeting under the captions “Transactions with Related Persons” and “Director Independence.”

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

AEP

The information called for by this Item 14 is incorporated herein by reference to AEP’s definitive proxy statement (which will be filed with the SEC pursuant to Regulation 14A under the Exchange Act) relating to the 2015 Annual Meeting under the captions “Audit and Non-Audit Fees,” “Audit Committee Report” and “Policy on Audit Committee Pre-Approval of Audit and Permissible Non-Audit Services of the Independent Auditor.”

APCo, I&M, OPCo, PSO and SWEPCo

Each of the above is a wholly-owned subsidiary of AEP and does not have a separate audit committee. A description of the AEP Audit Committee pre-approval policies, which apply to these companies, is contained in the definitive proxy statement of AEP for the 2015 Annual Meeting of shareholders. The following table presents directly billed fees for professional services rendered by Deloitte & Touche LLP for the audit of these companies’ annual financial statements for the years ended December 31, 2014 and 2013, and fees directly billed for other services rendered by Deloitte & Touche LLP during those periods. Deloitte & Touche LLP also provides additional professional and other services to the AEP System, the cost of which may ultimately be allocated to these companies though not billed directly to them. For a description of these fees and services, see the description of principal accounting fees and services for AEP, above.

	APCo		I&M		OPCo	
	2014	2013	2014	2013	2014	2013
Audit Fees	\$ 2,103,482	\$ 2,342,744	\$ 1,563,434	\$ 1,552,346	\$ 1,111,667	\$ 3,119,885
Audit-Related Fees	108,305	104,923	53,508	51,488	83,594	128,535
Tax Fees	26,915	22,556	21,117	16,677	15,719	278,029
Total	\$ 2,238,702	\$ 2,470,223	\$ 1,638,059	\$ 1,620,511	\$ 1,210,980	\$ 3,526,449

	PSO		SWEPCo	
	2014	2013	2014	2013
Audit Fees	\$ 599,890	\$ 641,720	\$ 1,216,430	\$ 1,131,155
Audit-Related Fees	25,622	21,920	41,118	102,633
Tax Fees	8,482	7,100	15,503	12,505
Total	\$ 633,994	\$ 670,740	\$ 1,273,051	\$ 1,246,293

APPENDIX G
SOLID WASTE PERMIT NO. 0273-S3N-R2

ADEQ

ARKANSAS
Department of Environmental Quality

December 17, 2014

SWEPCO, Flint Creek Power Plant
Mr. Terry Wehling, P.E.
502 North Allen Avenue
Shreveport, LA 71101

**RE: Issuance of Final Permit for Class 3N Solid Waste Landfill
Southwestern Electric Company, Flint Creek Power Plant
Permit No: 0273-S3N-R2; AFIN: 04-00107
Document Number: 66813; Cross Reference No: 59803 and 65699**

Dear Mr. Wehling:

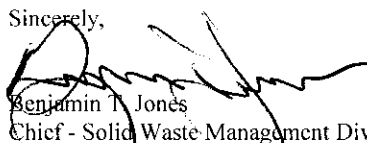
Enclosed is a permit authorizing the construction, operation, and maintenance of the Southwestern Electric Company, Flint Creek Power Plant Class 3N solid waste landfill facility as described in your application submitted on April 21, 2011, and subsequent documentation as referenced in the permit. The permit number for the facility is 0273-S3N-R2. The decision to issue the permit is based upon 1) the information contained in the permit application; 2) other materials submitted by the applicant; 3) written comments received during the designated 30-day public comment period (one received from applicant).

The permit is granted subject to the terms and conditions specified in the permit. The initial amount of financial assurance required is \$5,145,545 for the facility. Acceptable mechanisms for financial assurance include a surety bond, collateral bond (supported by a letter of credit, securities or cash), or other mechanisms as set forth in Chapter Fourteen of Regulation Number 22. The instruments used must be in the exact form set forth in Regulation Number 22 and must be filed with the Department before the permit can become effective. The purpose of the financial assurance is to ensure an environmentally sound closure of the site upon conclusion of disposal operations and acceptable post closure care. Please review all terms and conditions of the permit to ensure compliance with all applicable requirements.

All persons submitting written comments during the thirty (30) day public comment period, and all other persons entitled to do so, may request an adjudicatory hearing and Commission review on whether the decision of the Director should be reversed or modified. Such a request shall be in the form and manner required by Regulation 8.603, including filing a written Request for Hearing with the APC&E Commission Secretary at 101 E. Capitol Ave., Suite 205, Little Rock, Arkansas 72201 within thirty (30) calendar days of the date of issuance of this final permit decision as provided in Reg. 8.211(B)(1). If you have any questions about filing the request, please call the Commission Secretary at 501-682-7890.

Thank you for your cooperation on this matter. If you have any questions, or if we may be of service, please feel free to contact the Solid Waste Management Division at (501) 682-0602.

Sincerely,


Benjamin T. Jones
Chief - Solid Waste Management Division

Enclosures: Permit
Permit Statement of Basis

cc: Angela M. Gerdeman, P. E., Hull & Associate, Inc.
Heidi Love, Inspector Supervisor, SWMD
Susan Spcake, Programs Branch Manager, SWMD

SWEPCO, Flint Creek Power Plant Class 3N Landfill
Permit: 0273-S3N-R2; AFIN 04-00107

Response to Comments

On November 10, 2014, the Arkansas Department of Environmental Quality issued a draft permit modification associated with the construction and operation of the SWEPCO - Flint Creek Power Plant Class 3N Landfill. Public notice was provided on November 14, 2014. An additional public notice was provided on November 21, 2014, announcing a public meeting to discuss the draft permit modification. The meeting was held December 2, 2014. During the thirty (30) day comment period the ADEQ-SWMD received comments from the facility only (Document Number 65699). Following are the responses to the comments.

Comment:

The Site Specific Permit Condition 4 should be updated to reflect wastes listed in approved operating plans. Alternatively, the waste list should be removed from the condition, and those specific plans should be referenced as the location containing the full list of wastes.

Response:

ADEQ agrees with the request and will add the wastes to the condition. The condition has been changed to read:

“This permit is for the disposal of only waste eligible for a Class 3N landfill as identified in Regulation 22. The authorized waste stream includes coal ash: coal ash includes fly ash, economizer ash, bottom ash, bottom ash dredged from the ash pond, slagged ash; flue-gas desulfurization (FGD) waste; waste lime; non-hazardous grit blast; dredge from ash ponds; solids from landfill leachate pond, contact water pond and truck wash; solids from drainage ditches and sumps; ecology pit solids; coal mill rejects; waste activated carbon; waste coal; refractory materials; water treatment system wastes; construction and demolition debris; cleaning waste from precipitator, boiler and flue gas duct cleaning; cleaning waste from dry flue gas desulfurization, activated carbon injection, baghouse and flue gas system cleaning; scrubber system containment solids; air drier desiccant.”

**PERMIT
FOR THE CONSTRUCTION AND OPERATION OF A
CLASS 3N SOLID WASTE DISPOSAL FACILITY**

**ISSUED BY
STATE OF ARKANSAS
DEPARTMENT OF ENVIRONMENTAL QUALITY
SOLID WASTE MANAGEMENT DIVISION**

Permit Number	0273-S3N-R2
AFIN	04-00107
Effective Date	December 20, 2014
Permit Owner & Address	American Electric Power 502 North Allen Avenue Shreveport, LA 71101
Facility Site Name & Address	SWPCO, Flint Creek Power Plant 21797 SWPCO Road Gentry, AR 72734
Location	Section 8, T18N, R33W Benton County, Arkansas
Permitted Landfill Disposal Area	40 Disposal Acres
Permitted Disposal Volume (Waste and Daily/Intermediate Cover	2,854,000 Cubic Yards
Design Engineer/Consultant	Hull & Associates, Inc. 3401 Glendale Avenue, Suite 300 Toledo, OH 43614

This permit modification authorizes the construction and operation of the Class 3N landfill as set forth in the permit application for American Electric Power, hereinafter called "owner" or "permittee."

This permit modification was completed through a series of technical correspondence between the applicant and the Department beginning on April 21, 2011 (Doc #59803). The correspondence consists of the following documents:

66580	10/6/2014	Final GWSAP and Assessment Monitoring Plan - Compilation
66422	8/26/2014	Revised GWSAP and Assess. Monitoring Plan from Permittee
66309	7/29/2014	SWMD NOD on Permit Application
65699	3/21/2014	Revised Major Permit Modification Application from Permittee

61607	7/23/2013	SWMD NOD on Permit Application
60246	6/22/2011	Proof of Publication of Legal Notice Admin Complete App from Permittee
60161	6/10/2011	SWMD Notice of Administratively Complete Permit Modification App
59803	4/21/2011	Initial Submittal of Major Permit Modification Application from Permittee

This permit modification includes updated operating and design changes necessary for compliance with applicable regulations. This permit provides information to document increasing of disposal volume, design work changes for the proposed intermediate liner and leachate collection system design of the SWEPCO, Flint Creek Power Plant Class 3N Landfill.

This permit is issued pursuant to the provisions of the Arkansas Solid Waste Management Act (Arkansas Code Annotated 8-6-201 et seq.) as amended, hereinafter called the "Act;" Regulation Number 22, Arkansas Solid Waste Management Rules, as adopted by the Pollution Control and Ecology Commission, hereinafter called "Regulation 22;" and all other applicable rules and regulations administered by the Department of Environmental Quality, hereinafter called "Department," and the following terms and conditions:

SITE SPECIFIC PERMIT CONDITIONS

1. The permit will expire when the disposal area described in the final engineering plans for Class 3N Landfill has been filled to design capacity and is closed out in accordance with the approved closure and post-closure care plans and provisions of Regulation 22. The final grades and elevations shown on the approved plans shall not be exceeded in anticipation of settlement and consolidation of the waste mass.

2. The approved permit modification plans for the facility are as follows: (from Doc #58380)

Drawing Number	Title	Date	Revision
DRAWING 1-30100	Cover Sheet	11/1/2010	C
DRAWING 1-30101	General Notes and References	11/312010	C
DRAWING 1-30102	Topography, Boring Location, and Monitoring Plan	11/1/2010	C
DRAWING 1-30103	General Site Plan	11/1/2010	C
DRAWING 1-30104	Intermediate Liner/ Leachate Collection System Plan	11/1/2010	C
DRAWING 1-30105	Leachate/ Contact Water Storage Pond Plan	11/1/2010	C
DRAWING 1-30106	Contact Water Conveyance Pipe Plan	11/1/2010	C
DRAWING 1-30107	Top of Waste Plan	11/1/2010	C
DRAWING 1-30108	Final grading Plan	11/1/2010	C
DRAWING 1-30109	Leachate/Contact Water Storage Pond Cross-Sections	11/1/2010	C
DRAWING 1-30110	Landfill Cross-Sections A-A'	11/1/2010	C
DRAWING 1-30111	Landfill Cross-Sections B-B'	11/1/2010	C
DRAWING 1-30112	Contact Water Conveyance Pipe Profile and Details	11/1/2010	B
DRAWING 1-30114	Leachate Collection System Details	11/1/2010	C
DRAWING 1-30115	Construction Details (Sheet 1 of 4)	11/1/2010	C
DRAWING 1-30116	Construction Details (Sheet 2 of 4)	11/1/2010	C
DRAWING 1-30117	Construction Details (Sheet 3 of 4)	11/1/2010	C
DRAWING 1-30118	Construction Details (Sheet 4 of 4)	3/31/2011	B
DRAWING 1-30119	Stormwater Control Plan	3/31/2011	B

3. The facility is permitted for 2,854,000 cubic yards(cy) of solid waste disposal includes 470,000 cy of waste placed prior to 1994, 1,556,000 cy of waste placed after 1994, and 828,000 cy of waste increase from the permit modification application.
4. This permit is for the disposal of only waste eligible for a Class 3N landfill as identified in Regulation 22. The authorized waste stream includes coal ash; coal ash includes fly ash, economizer ash, bottom ash, bottom ash dredged from the ash pond, slagged ash; flue-gas desulfurization (FGD) waste; waste lime; non-hazardous grit blast; dredge from ash ponds; solids from landfill leachate pond, contact water pond and truck wash; solids from drainage ditches and sumps; ecology pit solids; coal mill rejects; waste activated carbon; waste coal; refractory materials; water treatment system wastes; construction and demolition debris; cleaning waste from precipitator, boiler and flue gas duct cleaning; cleaning waste from dry flue gas desulfurization, activated carbon injection, baghouse and flue gas system cleaning; scrubber system containment solids; air drier desiccant.
5. The permittee shall implement the Hazardous Waste and Unauthorized Waste Exclusion Plan presented in Appendix O of the Permit Application having Solid Waste Management Division Document Number 65699. In addition to the implementation of the approved Hazardous Waste and Unauthorized Waste Exclusion Plan, the facility shall fully meet all requirements of Reg.22.412 regarding the exclusion of all unauthorized waste streams.
6. The permittee shall implement the requirements detailed in the Operating Plan and Narrative presented in Appendix J of the Permit Application having Solid Waste Management Division Document Identifier 65699. In addition to the implementation of the approved Operating Plan and Narrative, the facility shall fully meet all operating requirements of Regulation 22 unless specifically addressed by a permit condition.
7. As provided by Regulation 22.510(e), the permittee is allowed salvage operations in accordance with the approved operating plan (Doc ID: 30245) Paragraph F. Other types of salvage operations are otherwise prohibited in accordance with General Condition 12.
8. As provided by Regulation 22.512(d) and in accordance with the approved operating plan (Doc ID: 30245) Paragraph E.2, the permittee is approved a waiver of daily and intermediate cover requirements so long as all required NPDES run-off permits affected by landfill run-off are maintained, compliant, and in good-standing with ADEQ. Future nuisance conditions caused by this waiver, operational upsets, or threats to human health or the environment shall be grounds for review or repeal of this approval.
9. The landfill shall be constructed in accordance with the approved CQA Plan located in Appendix L of Document Number 65699 and furthermore in accordance with Regulation 22 and permitted designs. Before construction of new landfill cell, a notification shall be submitted in accordance with Regulation 22.428.
10. The permittee shall maintain closure and post-closure care plans that describes the steps necessary to close all landfill units at any point during its active life and to maintain the integrity and effectiveness of the closure system to minimize infiltration and erosion, as required by Regulation

22.1301, *et seq.* As such, the permittee shall implement the requirements detailed in the Closure and Post-Closure Plan presented in Appendix K of the Permit Application having Solid Waste Management Division Document Identifier 65699.

11. The initial total amount of financial assurance is \$5,145,545. Of this amount \$3,735,065 dollars will be required for closure costs and \$1,410,480 will be required for the post-closure costs. This amount shall be subject to annual adjustments and may be increased at the discretion of the Department based upon the estimated cost for a third party to close the largest area requiring final cover during the active life of the facility and the cost for a third party to perform post closure care.
 - a. The instruments used must be in one of the forms set forth in Regulation 22 or as otherwise approved by the Department.
 - b. Operations allowed under this permit shall not commence until all financial assurance is satisfactorily filed with the Department.
 - c. A portion or all of the financial assurance may be held by the Department beyond the time of cessation of disposal operations at the site to ensure satisfactory closure and post closure care in accordance with Regulation 22.
12. The Permittee shall comply with leachate handling and disposal provisions as specified by the minor modification approval document October 28, 2009 (Doc ID# 56213) and provisions permitted by the ADEQ Air and Water permits.
13. The Permittee shall comply with leachate system design, handling and disposal provisions as specified by the major modification application dated March 20, 2014 (Doc ID# 65699).
14. Proper analytical test results and characterization of activated carbon for design and monitoring purposes must be performed from Flint Creek's scrubbing waste after the dry scrubber is installed and operational, and submit to ADEQ-SWMD for review and approval.

GROUNDWATER MONITORING PERMIT CONDITIONS

1. The groundwater monitoring program at the site shall follow the provisions of Regulation 22. Any statements in the groundwater sampling and analysis plan that conflict with Regulation 22, permit conditions herein, or applicable laws and regulations shall not be considered authorized by the Department.
2. A groundwater monitoring system shall be established and maintained that consists of a sufficient number of wells or sampling points, installed at appropriate locations and depths to:
 - a. Provide groundwater quality passing the relevant point of compliance downgradient of the solid waste unit, facility, or practice as defined by Regulation 22. The downgradient monitoring system must ensure detection of groundwater contamination in the uppermost aquifer; and
 - b. Provide background that has not been affected by any solid waste unit, facility, or practice as defined by Regulation 22.
3. The monitoring system shall be designed, installed, operated, and maintained in accordance with the approved design specifications throughout the active life of the facility and the post-closure care period.
4. Sampling and Analysis Plan: The facility will follow an approved Sampling and Analysis Plan (SAP). The currently approved SAP is contained in Document Number 66580. Changes to this approved SAP will be accomplished following the provisions of Regulation 22.
5. Groundwater Monitoring Wells – There are currently 18 monitoring wells on-site that are being monitored and three additional wells that are planned to be installed.

Existing Groundwater Monitoring Wells:

B-01B, B-02, B-04, B-05, B-06, B-07A

Future Groundwater Monitoring Wells:

Monitoring wells B-9, B-10, and B-11 will be installed prior to use of the leachate pond. Well B-9 will be located to the west of the leachate pond, B-10 to the north or northwest of the leachate pond, and B-11 will replace decommissioned well B-8 to the south of the leachate pond. A detailed workplan describing the installation of these monitoring wells needs to be submitted and approved prior to installation.

Existing Nature and Extent Monitoring Wells:

Twelve existing wells were installed as part of a Nature and Extent Investigation and are as follows: NE-1, NE-2, NE-3, NE-4, NE-5, NE-5D, NE-6, NE-7S, NE-7R, NE-7D, NE-8, and NE-9.

Currently, the facility has an approved Assessment of Corrective Measures Report (Document 66460) dated September 4, 2014. Per Reg.22.1208, when a remedy is selected for the site per Reg.22.1207, the site will establish and implement a corrective action groundwater monitoring program. This program may include any or all of the nature and extent wells listed above and other wells as appropriate. Some of the existing nature and extent wells may be added to the regular groundwater monitoring system.

6. Groundwater Monitoring Frequency and Parameters: The facility will sample for parameters on the "AMC List" (defined below) quarterly at any monitoring location which has had any concentration that exceeded a Groundwater Protection Standard (GWPS) concentration within the past 12 months. These locations would include any concentration that exceeds the GWPS even for one sampling event – the concentration needs not be verified nor statistically exceed the GWPS. The remainder of the sampling locations will be sampled semi-annually for the AMC List parameters with the exception of NE-5, NE-6, NE-7S, NE-7D, NE-8 and NE-9 which will be annually.

The facility is currently performing assessment monitoring. While performing assessment monitoring, the facility will sample for parameters on an "Expanded Parameter List" at all monitoring locations every three years with the next event in 2014 (i.e. the next four events would be 2017, 2020, 2023, 2026). The AMC List parameters will be used as the detection monitoring list if and when the facility returns to detection monitoring. The facility may be requested to return to quarterly sampling for all wells in the future.

The AMC List parameters include:

Arsenic	Fluoride	Selenium
Barium	Iron	Silver
Boron	Lead	Sulfate
Cadmium	Manganese	Total Dissolved Solids
Chloride	Mercury	Turbidity
Chromium	Molybdenum	Zinc
Copper	pH	

The Expanded Parameter List parameters include:

Aluminum	Fluoride	Silver
Antimony	Gross alpha	Strontium
Arsenic	Gross beta	Sulfate
Barium	Iron	Sulfide
Beryllium	Lead	Thallium
Boron	Manganese	Tin
Cadmium	Mercury	Total dissolved solids
Chloride	Molybdenum	Turbidity
Chromium	Nickel	Vanadium

Cobalt
Copper

pH
Selenium

Zinc

All parameter concentrations above the Method Detection Limit (MDL) must be reported. The Department may modify the monitoring frequency or parameters required under this permit per Regulation 22.

Quarterly monitoring events will be performed approximately three months apart. In addition, one monitoring event will be performed during each quarter, defined as: January through March, April through June, July through September, and October through December.

Semi-annual monitoring events will be performed approximately six months apart. In addition, one monitoring event will be performed within the first six months of the year (January through June) and one monitoring event within the last six months of the year (July through December).

A groundwater monitoring report will be submitted to the ADEQ within 90 days from the date of the monitoring event.

7. Leachate Sampling: Leachate will be sampled at a minimum of the same frequency and for the same parameters as groundwater monitoring except that turbidity is not a required parameter. Leachate sampling will take place at the leachate sump sampling point, SW-I and at the leachate pond.
8. All groundwater statistical methodologies will be performed in a manner that complies with Regulation 22 and are consistent with recommendations for specific situations per the *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance* by EPA dated March 2009 (EPA-530-R-09-007) or the most current, relevant EPA statistical guidance publication. Any methodologies within the groundwater sampling and analysis plan do not meet these criteria shall not be considered authorized by the Department.

GENERAL PERMIT CONDITIONS FOR A CLASS 3N LANDFILL

1. This permit is issued in reliance upon the statements and representations made in the application, operating narrative, plans, specifications, correspondence, and other related documents. The Department bears no responsibility for the adequacy or proper functioning of the disposal facility. Nothing contained herein shall be construed as releasing the permittee from any liability from damage to persons or property due to the installation, maintenance, or operation of the disposal facility or any act of the permittee, or the permittee's employees or agents.
2. The disposal facility shall be constructed, operated and maintained in accordance with the final plans, specifications and operation narrative as approved by the Department and in compliance with applicable provisions of the Act, Regulation 22, and all other applicable rules and regulations.
3. At all times the disposal facility shall be maintained in good condition and operations shall be conducted by licensed, qualified, on-site operators holding the appropriate license in accordance with Regulation Number 27, Licensing of Solid Waste Management Facilities and Illegal Dump Control Officers.
4. This permit may be revoked or modified whenever, in the opinion of the Department, the facility is no longer in compliance with the Act, Regulation 22, or other applicable rules and regulations. Except where expressly authorized by the Department, this permit shall not relieve the permittee, or the permittee's employees or agents, from compliance with the provisions of the Act and Regulation 22.
5. The Department may issue modifications or amendments to this permit governing the design, operation, maintenance, closure or post-closure of the facility during the term of this permit. Such modifications or amendments shall be attached to this permit and shall be fully maintained and enforceable as a condition or conditions of this permit.
6. The Department has received an initial permit fee from the permittee. Annual permit fees due thereafter shall be assessed in accordance with Regulation Number 9, Fee Regulation. The facility shall also be responsible for quarterly payments of other landfill disposal fees as required under Regulation 11, Solid Waste Disposal Fees, Landfill Post-Closure Trust and Recycling Grants Program. Failure to pay annual fees or quarterly payments when due may result in revocation of this permit.
7. The permittee shall maintain an Operating Record at the location indicated in the permit application, or at an alternate location approved in writing by the Department.
 - a. At a minimum, the following documents and materials shall be retained in the facility

operating record for review by authorized representatives of the Department:

- i.) The approved facility operating plan, approved permit plans and specifications, CQA reports, site inspection reports, operator licenses, this disposal permit and written authorizations issued by the Department that provide modifications to the facility or its operations, all environmental monitoring or test results, and other pertinent records, certifications and correspondence as required by Regulation 22 or other permit conditions herein; and
 - ii.) All construction test results, certifications, acceptances, construction reports, photographs, layout drawings, record (as-constructed) drawings, shop drawings, construction drawings, and other documentation required by the specifications, and CQA/QC plans, reports and documents; and
 - iii.) Other documents that pertain to the operation and maintenance closure and/or post-closure of the facility, or as directed by the ADEQ.
 - b. The permittee shall forward a copy of information from the Operating Record when requested by the Department.
8. Transactions that affect the ownership of the facility must be fully disclosed to the Department.
 - a. For purposes of evaluating whether a change in ownership occurs, ownership or control may result from a change in the equity of the permittee of five percent (5%) or more.
 - b. If applicable, the permittee shall submit to the Department annual and quarterly reports required by the Securities and Exchange Commission (SEC) that provide information regarding legal proceedings in which the permittee has been involved in order to determine whether any change in ownership or control of the operation of this landfill has occurred.
 - c. A permit transfer will not be required when a change in ownership or control of the facility is among the persons and/or entities previously disclosed to the Department in Section E of the Disclosure Statement or similar disclosure.
9. The permittee shall furnish the Department annual engineering inspection reports in accordance with Regulation 22.522.
10. A survey control system shall be established and maintained at the landfill site that complies with Regulations 22.426.
11. The landfill working face shall be confined to the smallest practicable area.
12. Disposal of bulk liquid waste in the landfill is prohibited. Liquid waste is waste that contains

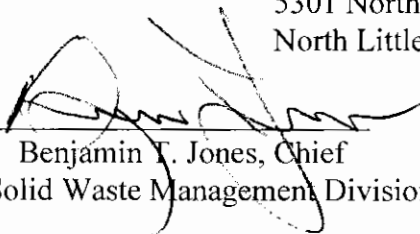
“free liquids” as defined by Method 9095 (Paint Filter Liquids Test) in EPA Publication No. SW-846.

13. Measures to control and prevent storm water run-on from running through or into the active disposal area shall be constructed and maintained. Grading, dikes, diversion ditches, silt fencing, silt, traps, and other best management practices (BMP) for storm water control shall be provided as necessary to control/prevent off-site sediment accumulation from landfill related operations
14. Appropriate NPDES construction/storm water permit(s) shall be obtained for storm water discharges from the landfill site and borrow sites. A Storm Water Pollution Prevention Plan (SWPPP), which outlines erosion and sediment control measures, shall be prepared and implemented in accordance with applicable NPDES requirements. A copy of the SWPPP shall be maintained on-site for reference by operating staff.
15. The permittee shall comply with the air criteria requirements of Regulation 22.515. Those requirements include meeting the State Implementation Plan (SIP) pursuant to Section 110 of the Clean Air Act; prohibiting open burning of solid waste, unless authorized by the Department; and establishing fire safety procedures.
16. Litter control measures shall be implemented, if necessary, to confine litter to the smallest practicable extent and prevent litter from leaving the site.
17. The permittee shall implement a Class 3N unauthorized waste exclusion screening and detection program at the facility in accordance with the approved Hazardous Waste and Unauthorized Waste Exclusion Plan and Regulation 22.511(b). The program shall include procedures for evaluation of any questionable wastes prior to disposal to determine whether the waste complies with the Regulation 22 requirements for disposal in the facility.
18. The permittee must cover disposed waste with at least six inches of soil at the end of each operating day, or at more frequent intervals if necessary, to control disease vectors, fires, odors, blowing litter, and scavenging as required by Regulation 22.512. No portion of the waste is to be left exposed at the end of the operating day. Alternative materials for daily cover, such as synthetic materials, shall only be used when specifically authorized in writing by the Department. Any alternative daily cover that is proposed by the permittee must comply with Department guidelines and include specific written operating procedures that will be implemented to control disease vectors, fires, odors, blowing litter, and scavenging. The use of synthetic material will not be authorized unless it is incorporated within operating procedures that also rely on use of at least six inches of soil cover for daily cover on some days; any proposal for daily cover based solely upon full-time use of synthetic material will not be approved.

The permittee has been granted a variance from the daily cover requirements. Details of the variance are outlined in the Site Specific Permit Conditions. The Department reserves the right to rescind this exemption if deemed necessary to provide for the control of disease vectors, fires, odors, blowing litter, scavenging, or to prevent harm to human health or the environment.

19. The final grades and elevations shown on the plans shall not be exceeded at any time or in anticipation of settlement and consolidation of the waste mass.
 - a. Timely initiation and completion of closure of landfill cells or units shall be made in accordance with Regulation 22.1301(f) and (g).
 - b. Proper construction of the final cover system shall be observed and certified in writing to the Department by a Registered Professional Engineer in a Construction Certification Report in accordance with the approved CQA Plan whenever a cell, area or phase of the landfill is closed-out.
 - c. The Certification Report shall include CQA/QC test results as indicated in the approved CQA Plan; drawings indicating the location, designation and extent of closed area(s); and test locations.
20. Any statements in the operational narrative, specifications, and/or engineering plans that conflict with Regulation 22, permit conditions herein, or other applicable laws and regulations shall not be considered authorized by the Department.
21. This permit authorizes one (1) active disposal area at the facility per Regulation 22. Multiple working faces shall not be utilized at the facility unless the permittee can provide adequate justification for more than one working face and specific authorization for such is granted in writing by the Department. It is not anticipated that such authorization will be granted except on a temporary basis for highly unusual or emergency situations.
22. The Department, its employees, agents, or any authorized person shall have the right to enter the property at any time for any reason as set out in Regulation 22 for the purposes of, including but not limited to, taking samples, reviewing the operating record, inspecting the facility, and perform other enforcement or engineering action without interference or delay from the permittee.
23. The Department's decision to issue this permit is final for purposes of appeal as of the date indicated in the Certificate of Service below. If any provision of these conditions or the application of these conditions thereof to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications of these conditions that can be given effect without the invalid provision or application. Therefore, to this end, the provisions of these conditions are declared to be severable.

APPROVED BY: **Arkansas Department of Environmental Quality**
5301 Northshore Drive
North Little Rock, Arkansas 72118


Benjamin T. Jones, Chief
Solid Waste Management Division

12/17/2014
Date

CERTIFICATE OF SERVICE

I, Barbara J. Mathews, hereby certify that a copy of this permit has been mailed by first-class mail to Mr. Terry Wehling, American Electric Power, 502 North Allen Avenue, Shreveport, LA 71101, on or before this 17th day of December, 2014.

Permit Summary and Rationale - Statement of Basis
Permit for SWEPCO, Flint Creek Power Plant Class 3N Landfill
 Permit Number 0273-S3N-R2; AFIN: 04-00107

Permit Summary

This summary form consists of information submitted during the permitting process. It represents basic information from the administrative record utilized in forming recommendations from the Solid Waste Management Division. The entire file for the solid waste permit application specified below should be reviewed for complete details on the proposed facility.

Permit Application Summary	
1. Name of Applicant:	American Electric Power 502 North Allen Avenue Shreveport, LA 71101
2. Type of Facility:	Class 3N Landfill
3. Engineering Firm:	Hull and Associates, Inc., Toledo, Ohio
4. Application Date:	April 11, 2011
5. Site Location	General: The site is located at 21797 SWEPCO, Flint Creek Power Plant Gentry, Arkansas Section 8, T18N, R33W Benton, County, Arkansas
6. Permit Area:	Permitted Landfill Area: 40 acres
7. Residences Within 2 Miles:	Yes – Most of the Town of Gentry, Arkansas is within 2 miles.
8. Wetlands:	None.
9. Geology:	The site is underlain by limestone and chert of the Boone Formation. The Boone is approximately 250 feet in thickness in this area and is composed of an upper and lower section. The lower Boone is composed of a 20 to 30 feet thick coarsely crystalline, chert-free limestone known as the St. Joe limestone member. The upper portion of the Boone is composed of interbedded limestone and chert. In the weathered upper portions of the section, the limestone has been chemically weathered away leaving a red clayey soil mixed with chert beds. <i>from Document 26116</i>
10. Ground Water:	The natural groundwater in the area is of excellent quality as is seen in site wells that have not been affected by the landfill. Groundwater flow direction is variable and complex. The facility is located in karst terrain and has a potential for groundwater flow to be concentrated in conduits formed by the dissolution of the limestone.

Permit Application Summary	
11. Surface Drainage Sequence:	Surface water drainage from the landfill flows south into an unnamed intermittent stream that flows into the SWEPCO primary ash pond located less than one-half mile southwest of the landfill. The ash basin flows into SWEPCO lake which eventually flows into Little Flint Creek.
12. Waste Streams:	Non-hazardous solid wastes eligible Class 3N generated by the facility. See Specific Condition 4.
13. Capacity	The facility is permitted for 2,854,000 cubic yards(cy) of solid waste disposal includes 470,000 cy of waste placed prior to 1994, 1,556,000 cy of waste placed after 1994, and 828,000 cy of waste increase from the permit modification application.
14. Disposal Rate (estimation)	111,630 cubic yards per year.
15. Projected Active Life (estimation)	40 years
16. Final Cover:	From bottom to top: An 8-oz. non-woven geotextile, a 40 mil liner low-density polyethylene (LLDPE) geomembrance, a double-sided geocomposite drainage layer, an 18" of protective cover soil layer and a 6" vegetative soil layer.

Permit Rationale

Condition No.	Site Specific Permit Conditions
1	Refers to the landfill disposal area for the Class 3N facility as shown in the approved application and operational narrative plans (22.309)
2	Lists the approved design plans. (22.303)
3	Permitted disposal volume as calculated by design engineer based on permitted bottom and waste grades (22.303)
4	Concerns the types of wastes that can be accepted at the facility. The facility is permitted as a Class 3N landfill and may accept bulky, inert, non-putrescible waste. Hazardous and/or toxic waste materials, liquid or semi-liquid waste, household garbage, and putrescible wastes are not authorized for acceptance and disposal at the facility (22.102)
5	Concerns the approved hazardous waste exclusion plan (22.511)
6	Concerns the approved operating plan and narrative (22.510)
7	Concerns the approved salvage operation in accordance with the approved operating plan(22.510)
8	Concerns the approved waiver of daily and intermediate cover requirements (22.512)
9	CQA Plan requirements (22.524)
10	Closure and Post-Closure Plan requirements and implementation (22.1301 and 22.1302)
11	Specifies the initial amount of financial assurance. (Regulations 22.1402 and 22.1403)
12	Concerns the approved leachate handling and disposal provisions made by minor and major modification.
13	Concerns with the proper design, handling, and disposal of leachate system.
14	Concerns with the proper analytical test results and characterization of activated carbon.

Condition No.	Ground Water Monitoring Permit Conditions
1	Statement requiring the facility to follow the provisions of Regulation 22 for groundwater monitoring. No groundwater monitoring conditions in this permit or approved Sampling and Analysis Plan (SAP) are intended to conflict with Regulation 22. In addition, no statements within the SAP are intended to conflict with Reg 22, this permit, or other laws and regulations. If there is a conflict, the statements in the SAP are not considered authorized by the Department.
2	A general summary of Regulation 22.1202(a). Requires the permittee to utilize and maintain a ground water monitoring system to adequately monitor potential from facility operations and to provide proper groundwater background.
3	A general summary of Regulation 22.1201(d); 22.1202(c); 1302(b).
4	Requires the permittee to monitor in accordance with the approved Sampling and Analysis Plan (SAP). Defines the current SAP. An approved SAP is required per Reg.22.1203.
5	Defines the wells to be used in the groundwater monitoring system.
6	Defines the frequency, parameters, and reporting aspects for the groundwater monitoring. Frequency and reporting are based on Reg.22.1203(k), 1203(h)(5), and 1204(b). Parameters are based on detections at this and other coal ash landfills and on leach data presented in the December 2009 EPA Publication " <i>Characterization of Coal Combustion Residues from Electric Utilities – Leaching and Characterization Data</i> " EPA-600/R-091/151. The Department may modify the monitoring frequency or parameters required under this permit per Regulation 22. Other parameters of concern may be added by the Department based upon waste and leachate characteristics per Reg.22.1204(a)(3). The sampling procedures and frequency must be protective of human health and the environment per Reg.22.1203(c). The Department may modify the analytical parameters or sampling frequency based on waste or leachate characteristics, or as needed to determine or update representative background water quality or to investigate contaminants of potential concern as necessary to protect human health or the environment
7	Defines leachate sampling. Reg.22.429(1)
8	Statement that all groundwater statistical methodologies will comply with Regulation 22. In addition, the methodologies will be consistent with the EPA "Unified Guidance" or the most current, relevant EPA statistical guidance publication. Reg.22.1203; Reg.22.1203(g)(6) and (7).

Condition No.	General Conditions for Class 3N Facilities
1	States the Department has no responsibility for the proper functioning of the disposal facility and the permittee is not exempt from liability to third parties per Regulation 8.
2	Concerns the requirements for construction and operation of the disposal facility in accordance with the approved plans/specifications/operation narrative are in accordance with Regulation 22.
3	Concerns requirements to maintain the disposal facility in good operating condition under licensed, qualified, on-site landfill operators is in accordance with Regulation 22 and with Regulation 27.
4	Concerns the right of the Department to revoke or modify the permit in the event the facility is no longer in compliance with the Arkansas Solid Waste Management Act, Regulation 22, or any other applicable regulations.
5	Concerns issuance of modifications to the permit by the Department is in accordance with Regulation 22.
6	Concerns payment of permit fees in accordance with Regulation 9.
7	Concerns requirements for maintenance of landfill related documents in an Operating Record are in accordance with appropriate Sections of Regulation 22.
8	Concerns permit transfer and disclosure is in accordance with Act 454 of 1991.
9	Concerns requirements for submittal of an annual engineering inspection report are in accordance with Regulation 22.
10	Outlines the requirements for implementation and maintenance of a survey control system at the landfill site for horizontal and vertical control of landfill construction/operation is in accordance with Regulation 22.
11	Outlines requirements for disposal in a single working area of the smallest practicable extent are in accordance with Regulation 22.
12	Concerns the prohibition of the disposal of bulk liquid waste in the landfill is in accordance with Regulation 22.
13 & 14	Concerns measures to control and prevent stormwater run through or into the active face and requirements for appropriate NPDES permit(s) and a Storm Water Pollution Prevention Plan (SWPPP) is in accordance with Sections 22.418, 22.419 and 22.427 of Regulation 22, and the Clean Water Act.
15	Concerns requirements for compliance with applicable air criteria is in accordance with Section 22.416 of Regulation 22 and the Clean Air Act.
16	Concerns with litter control fences and other control measures for blowing litter.
17	Concerns requirements for implementation of a Class 3N Exclusion Screening and Detection Program at the facility is in accordance with Regulation 22.
18	Concerns the application of six inches of soil at the end of each operating day.
19	Concerns requirements to fill within the final grades and elevations indicated on the approved plans, timely initiation and completion of closure, and proper CQA monitoring and certification are in accordance with Sections 22.308, 22.411, 22.428, and 22.1301 of

Condition No.	General Conditions for Class 3N Facilities
	Regulation 22
20	Concerns the requirements for the permittee to comply with Regulation 22 or permit conditions in the event of a conflict between them and representations in the permit application documents is in accordance with Section 22.308 of Regulation 22.
21	Concerns the permit authorizes only one (1) working face. Regulation 22.411
22	Concerns the right of Department employees to enter the permittee's property to inspect the facility at any time without interference or delay is in accordance with Section 22.1501 of Regulation 22.
23	Concerns providing notice for the purpose of appeal of the final permit in accordance with Section 22.306 of Regulation 22 and in accordance with Regulation 8. Provisions regarding severability are in accordance with Section 22.1601 of Regulation 22.
