



## CCR Landfill 2024 Annual Landfill Inspection Report

Turk Power Plant, Fulton, Arkansas

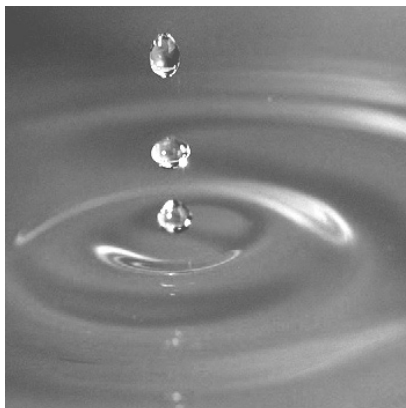
**Submitted to:**

American Electric Power Service Corporation  
1 Riverside Plaza  
Columbus, OH 43215

**Submitted by:**

GEI Consultants, Inc.  
5646 Milton Street, Ste 500  
Dallas, Texas 75206  
469.868.7639

September 4, 2024  
Project 2305686  
AEP Document ID: GEVR-24-009



---

Pedro Amaya, PE  
Senior Consultant

---

Jeff Piaskowski, PE  
Senior Engineer

# 2024 Annual Inspection Report



**CCR Landfill**  
**Turk Power Plant**  
**AEP Document ID: GEVR-24-009**

A handwritten signature in black ink that reads "Pedro J. Amaya". The signature is written in a cursive style.

\_\_\_\_\_  
Signature

Pedro Amaya, PE  
Senior Consultant  
GEI Consultants, Inc.

September 4, 2024  
\_\_\_\_\_  
Date



I certify, to the best of my knowledge, that the information provided in this report satisfies the requirements of 40 CFR 257.84(b).

# Table of Contents

---

<b>1.</b>	<b>Introduction</b>	<b>1</b>
<b>2.</b>	<b>Description of Landfill</b>	<b>2</b>
<b>3.</b>	<b>Review of Available Information (257.84(b)(1)(i))</b>	<b>3</b>
<b>4.</b>	<b>Inspection (257.84(b)(1)(ii))</b>	<b>4</b>
4.1	Changes in Geometry Since Last Inspection (257.84(b)(2)(i))	4
4.2	Volume (257.84(b)(2)(ii))	4
4.3	Definitions of Visual Observations and Deficiencies	4
4.4	Visual Inspection (257.84(b)(1)(ii))	5
4.5	Change that Effect Stability or Operation (257.84(b)(2)(iv))	7
<b>5.</b>	<b>Summary Findings</b>	<b>8</b>
5.1	General Observations	8
5.2	Maintenance Items	8
5.3	Items to Monitor	8
5.4	Items to Address	8
5.5	Deficiencies (257.84(b)(2)(iii))	9

## Figures

Figure 1 – Site Location Map

Figure 2 – Facility Plan

Figure 3 – Site Plan

Figure 4 – Items to be Addressed

## Appendices

Appendix A – Photolog

JRP

B:\Working\AEP\2305686 2024 Dam & Landfill Field Insps\08\_FINAL INSPECTION REPORTS\07Turk\Final\CCR Landfill\FINAL\_2024 Turk CCR Landfill.docx

# 1. Introduction

---

GEI Consultants, Inc. was retained by AEP to implement the 2024 Inspection and Maintenance Program at AEP facilities and to provide the Turk Plant with an evaluation of the CCR Landfill to fulfill requirements of 30 TAC 352.841 (40 CFR 257.84). As part of the evaluation, GEI's Pedro Amaya, P.E. and John Trast, P.E. performed the 2024 annual inspection of the CCR unit. Mr. W. Greg Carter of AEP's Regional Engineering participated in the inspection and provided contextual background. This report was prepared by Pedro Amaya and Jeff Piaskowski of GEI and serves as a summary of the inspection and an assessment of the general conditions of the facility.

The inspection was performed on April 16, 2024. Weather conditions were mostly cloudy with mild temperatures. According to a local rain gauge, the area received approximately 4-inches of rain in the 7 days prior to the inspection. Partial mowing was performed prior to the inspection.

The Turk Power Plant is located near Fulton, Arkansas as shown on Figure 1 – Site Location Map. The facility arrangement is provided on Figure 2 – Facility Plan. The CCR Landfill and its associated ponds are shown on Figure 3 – Site Plan.

## 2. Description of Landfill

---

AEP-SWEPCO owns and operates the Turk Power Plant and the site's CCR Landfill. The Power Plant has a 600 MW unit utilizing western sub-bituminous coal as a fuel for generating electricity. The CCR Landfill is located to the south of the main plant and is designed, approved, and used for disposal of flyash, bottom ash, scrubber waste, and other byproducts generated from the coal-fired power plant. The overall features of the CCR Landfill consist of the following main components; inactive and active landfill disposal areas (Inactive-Cell 1 and Active-Cell 2), Perimeter Berms and Haul Road, Leachate Collection Pond, Storm Water Pond, and Drainage Ditches.

The inactive landfill disposal area (Cell 1) had reached its maximum waste fill capacity and currently consists of temporary soil cover on the side slopes. The south slope of Cell 1 has a 2-acre test pad of Closureturf®. There are total of five cells that total 73 acres and create the landfill solid waste footprint. The Leachate Collection Pond is located to the northwest of Cell 1 and collects leachate generated from the CCR Landfill leachate collection system. The Stormwater Pond is located to the northeast of Cell 1 and collects storm water from the perimeter storm water ditches that exist around the landfill. The outer perimeter of the landfill consists of the perimeter berm and haul road.

### **3. Review of Available Information (257.84(b)(1)(i))**

A review of available information regarding the status and condition of the CCR Landfill, which include files available in the operating record such as; design and construction information, previous 7-day inspection reports, and previous annual inspection report that has been conducted. Based on the review of the data there were no signs of actual or potential structural weakness or adverse conditions of the CCR Landfill.

## 4. Inspection (257.84(b)(1)(ii))

---

### 4.1 Changes in Geometry Since Last Inspection (257.84(b)(2)(i))

No modifications have been made to the geometry of the landfill since the last annual inspection. Overall, the geometry of the landfill has remained unchanged, except the change in topography of the active disposal area.

### 4.2 Volume (257.84(b)(2)(ii))

The total estimated disposal capacity of the landfill (Cells 1-5) is 6,884,235 cubic yards. The total volume of CCR disposed in the landfill from the period November 2012 through April 2024 is estimated to be 1,522,735 tons. This is approximately 1,111,485 cubic yards when using a unit conversion of 1.37 tons per cubic yard.

### 4.3 Definitions of Visual Observations and Deficiencies

This summary of the visual observations uses terms to describe the general appearance or condition of an observed item, activity, or structure. The meaning of these terms is as follows:

- Good:** A condition or activity that is generally better or slightly better than what is minimally expected or anticipated from a design or maintenance point of view.
- Fair/ Satisfactory:** A condition or activity that generally meets what is minimally expected or anticipated from a design or maintenance point of view.
- Poor:** A condition or activity that is generally below what is minimally expected or anticipated from a design or maintenance point of view.
- Minor:** A reference to an observed item (e.g. erosion, seepage, vegetation, etc.) where the current maintenance condition is below what is normal or desired, but which is not currently causing concern from a structure safety or stability point of view.
- Significant:** A reference to an observed item (e.g. erosion, seepage, vegetation, etc.) where the current maintenance program has neglected to improve the condition. Usually, conditions that have been identified in the previous inspections, but have not been corrected.

**Excessive:** A reference to an observed item (e.g. erosion, seepage, vegetation, etc.) where the current maintenance condition is above or worse than what is normal or desired, and which may have affected the ability of the observer to properly evaluate the structure or particular area being observed or which may be a concern from a structure safety or stability point of view.

This document also uses the definition of a “deficiency” as referenced in the CCR rule section §257.84(b)(5) Inspection Requirements for CCR Landfills. This definition has been assembled using the CCR rule preamble as well as guidance from MSHA, “Qualifications for Impoundment Inspection” CI-31, 2004. These guidance documents further elaborate on the definition of deficiency. Items not defined by deficiency are considered maintenance or items to be monitored.

A “deficiency” is some evidence that a landfill has developed a problem that could impact the structural integrity of the landfill. There are four general categories of deficiencies. These four categories are described below:

1. Uncontrolled Seepage (Leachate Outbreak)

Leachate outbreak is the uncontrolled release of leachate from the landfill.

2. Displacement of the Embankment

Displacement of the embankment is large scale movement of part of the landfill. Common signs of displacement are cracks, scarps, bulges, depressions, sinkholes, and slides.

3. Blockage of Control Features

Blockage of Control Features is the restriction of flow at spillways, decant or pipe spillways, or drains.

4. Erosion

Erosion is the gradual movement of surface material by water, wind, or ice. Erosion is considered a deficiency when it is more than a minor routine maintenance item.

#### **4.4 Visual Inspection (257.84(b)(1)(ii))**

A visual inspection of the CCR Landfill was conducted to identify signs of distress or malfunction of the landfill and appurtenant structures. Specific items inspected included structural elements of the landfill perimeter berms, temporary and final covers, drainage features, stormwater and leachate ponds, completed and open cells of the CCR Landfill, and its appurtenances.

Based on GEI’s visual inspection, the CCR Landfill is in good condition. The landfill is functioning as intended with no signs of potential structural weakness or conditions, which are



disrupting to the safe operation of the landfill. Details of the visual inspection are presented below. Photographs taken during the inspection are included in Appendix A – Photolog. Each photograph that was captured during the inspection was tagged as either a general site observation or recommended as an item to be addressed. The site observations are presented on Figure 3 – Site Plan and Figure 4 –Items to be Addressed.

1. Overall condition of the CCR Landfill Cell 1 and Cell 2 was good. Photograph No. 40 was taken along the perimeter berm on the western side of the landfill. It also serves as the perimeter road in this section of the landfill. Cell 1 (Inactive) can be seen in the background of Photograph No. 39, while the Cell 2 (Active) is depicted in the foreground. Cell 2 CCR fill is nearly the elevation of the perimeter road as shown in Photograph No. 37 and No. 38. Active Cell 2 fill area appeared in good condition. No significant erosion or ponded water was observed.
2. Cell 1 was in good and stable condition with no sign of instability, ponding water or significant erosion. The temporary access road to the west and landfill perimeter road to the south appeared in good condition. Photographs No. 24, No. 27, and No. 32 provide general conditions observed during the inspection.
3. The south slope of the berm consists of artificial turf (alternate to the natural grass cover) and appeared in good and stable condition. Few isolated spots indicated weeds protruding through the artificial turf. Overall, the Closureturf® cover and toe ditch are functioning as designed. An area at the southeast corner appears to have some ponding water as a result of overgrown vegetation in the bottom of the ditch. Minor overgrown vegetation was observed at the end of ditch to the stormwater pond (Photograph No. 21). Overall, the toe ditch and the berm are functioning as designed. Photographs No. 13, No. 21, No. 33, and No. 34 provide general conditions of these areas observed during the inspection.
4. A Closureturf® test pad area for the permanent cover system installation was completed in October 2019 at the southeast slope of the landfill (Photographs No. 20, No. 27 and No. 28). The test pad area is currently under inspection by the Arkansas Department of Environmental Quality (ADEQ) through 2024. The Closureturf® cover system is designed to be in compliance with the CCR rule. Photograph No. 23 illustrates an intermediate bench and ditch for runoff control. The test pad, bench, and ditch associated with the Closureturf® test pad appeared in good condition and was functioning as intended.
5. Typical conditions of the landfill slope of inactive Cell 1 is illustrated in Photographs Nos 9 through 11, No. 13, No. 15, No. 16, and No. 22. The north, south, and east slopes are covered with temporary soil cover. All the slopes are covered with temporary grass cover and appeared in good and stable condition without any significant erosion or instability.

6. A new catch basin was added in the northeast corner of the landfill at the end of the perimeter ditch (Photograph No. 12 and No. 13). Two pipe culverts were extended from the catch basin to the stormwater pond under the perimeter road (Photograph No. 14).
7. The stormwater pond is located to the east of the landfill and receives non-contact storm water run-off from the slopes of Cell 1 and areas outside the landfill. The pond appeared to be functioning with some overgrown vegetation along the interior slopes (Photographs No. 14 and No. 17).
8. The Leachate Pond general conditions are illustrated on Photographs No.1 through 7. The vegetative cover on the interior slopes (north, south, and east) appeared in good and controlled condition. Some sloughing of the southern uppermost slope section of the leachate pond was observed (Photograph No. 41) and is recommended as an item to be addressed.
9. There are three leachate drainpipes (southeast, center, and southwest) on the south slope of the leachate pond. Leachate enters the pond from the Cell 1 and Cell 2 leachate collection system through a pipe at the southeast corner and center of the pond south slope (Photograph No. 4, No. 47 and No. 48). Leachate was draining from the pipe and in functional condition at the time of the inspection.
10. Photographs No. 42 through No. 46 illustrates the west slope of the pond. This slope was repaired a few years ago by replacing vegetative cover with a geosynthetic liner. The liner appeared in good condition without any damage or displacement. The slope appeared in good and stable condition without any sign of failure.

#### **4.5 Change that Effect Stability or Operation (257.84(b)(2)(iv))**

Based on interviews with plant personnel and field observations there were no changes to the Landfill since the last annual inspection that would affect the stability or the operation of the landfill.

## 5. Summary Findings

---

### 5.1 General Observations

1. In general, the landfill is functioning as the design intended. The landfill areas (Cell 1 and Cell 2) are in good and stable condition.
2. The stormwater ditches and the perimeter haul road are in good functional condition. The recently installed catch basin in the northeast corner is functioning as designed. The settlement along the pipe culverts should be monitored and backfilled as needed to maintain positive drainage.
3. Previously observed excessive vegetation in the south ditch at the toe of the support berm was cleared. An area in the southeast corner appeared to be soft and may need some additional repair.
4. Overall, the leachate pond is in good and stable condition including the west slope repair. The stormwater pond is functioning as designed and adequately handling the runoff water. Excessive vegetation should be cleared from the interior slopes of the pond and outfall area.

### 5.2 Maintenance Items

General vegetation control should be maintained at the toe ditch, leachate pond and stormwater pond, particularly bottom of perimeter ditches, around the outlet pipes and interior slopes.

### 5.3 Items to Monitor

No items were identified as items to be monitored.

### 5.4 Items to Address

Photo 18 – Address the ditch check dam (silt build up) that is restricting flow.

Photo 41 – Address sloughing observed on the south side of the Leachate Pond

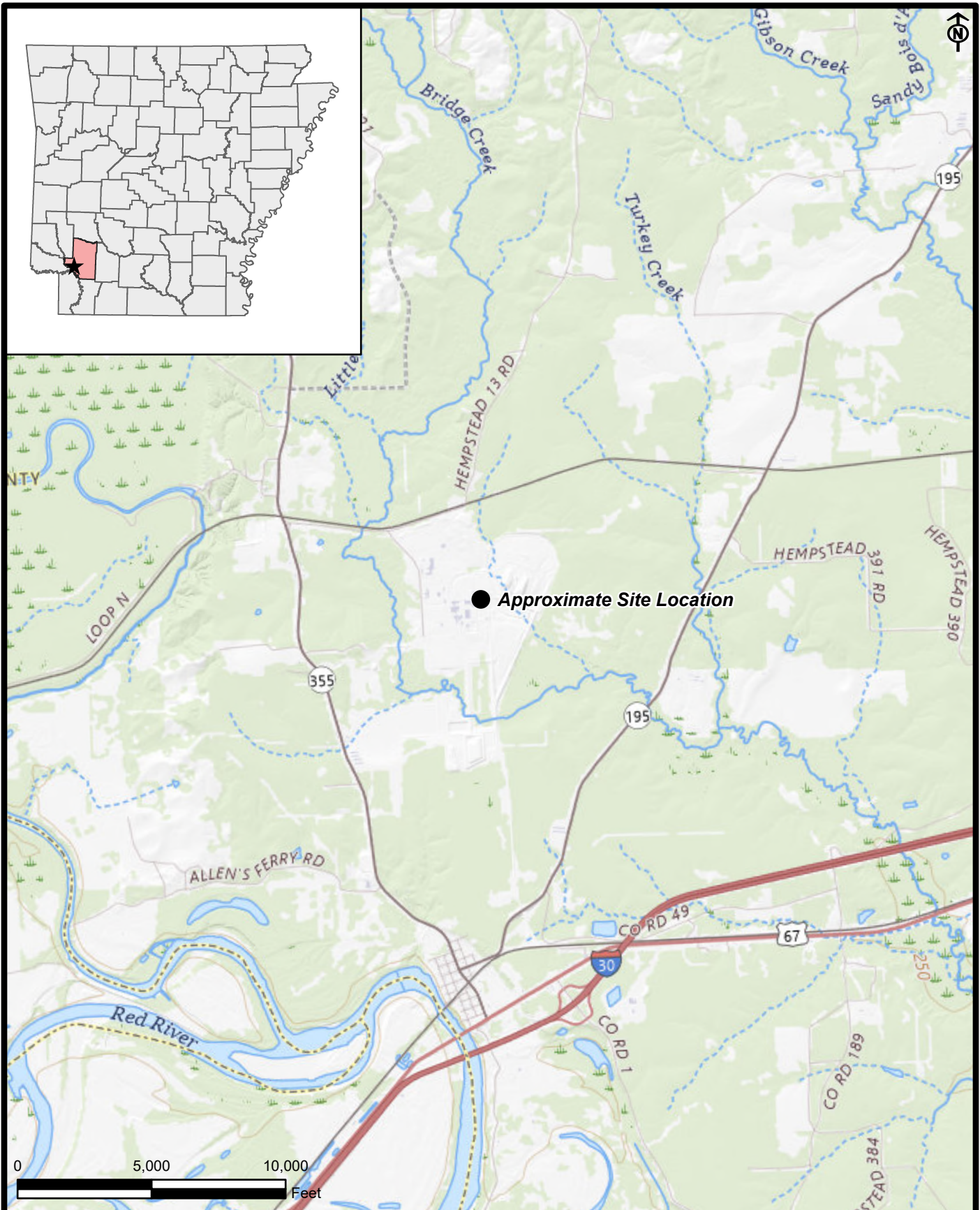
## 5.5 Deficiencies (257.84(b)(2)(iii))

There were no signs of structural weakness or disruptive conditions that were observed at the time of the inspection that would require additional investigation or remedial action. There were no deficiencies noted during this inspection or during any of the periodic 7-day inspection. If any deficiency occurs until the next inspection contact AEP Geotechnical Engineering immediately.

If you have any questions with regard to this report, please contact AEP-Geotechnical Engineering Shah Baig (Phone: 614-716-2241, email: [sbaig@aep.com](mailto:sbaig@aep.com)) or Bryan Brunton (Phone: 614-477-2659, email: [bwbrunton@aep.com](mailto:bwbrunton@aep.com))

## **Figure 1 – Site Location Map**

---



2024 Annual CCR Landfill Inspection Report  
 Turk Power Plant  
 Fulton, Arkansas

American Electric Power Service Corporation  
 Columbus, OH 43215



Project 2305686

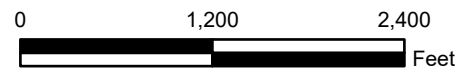
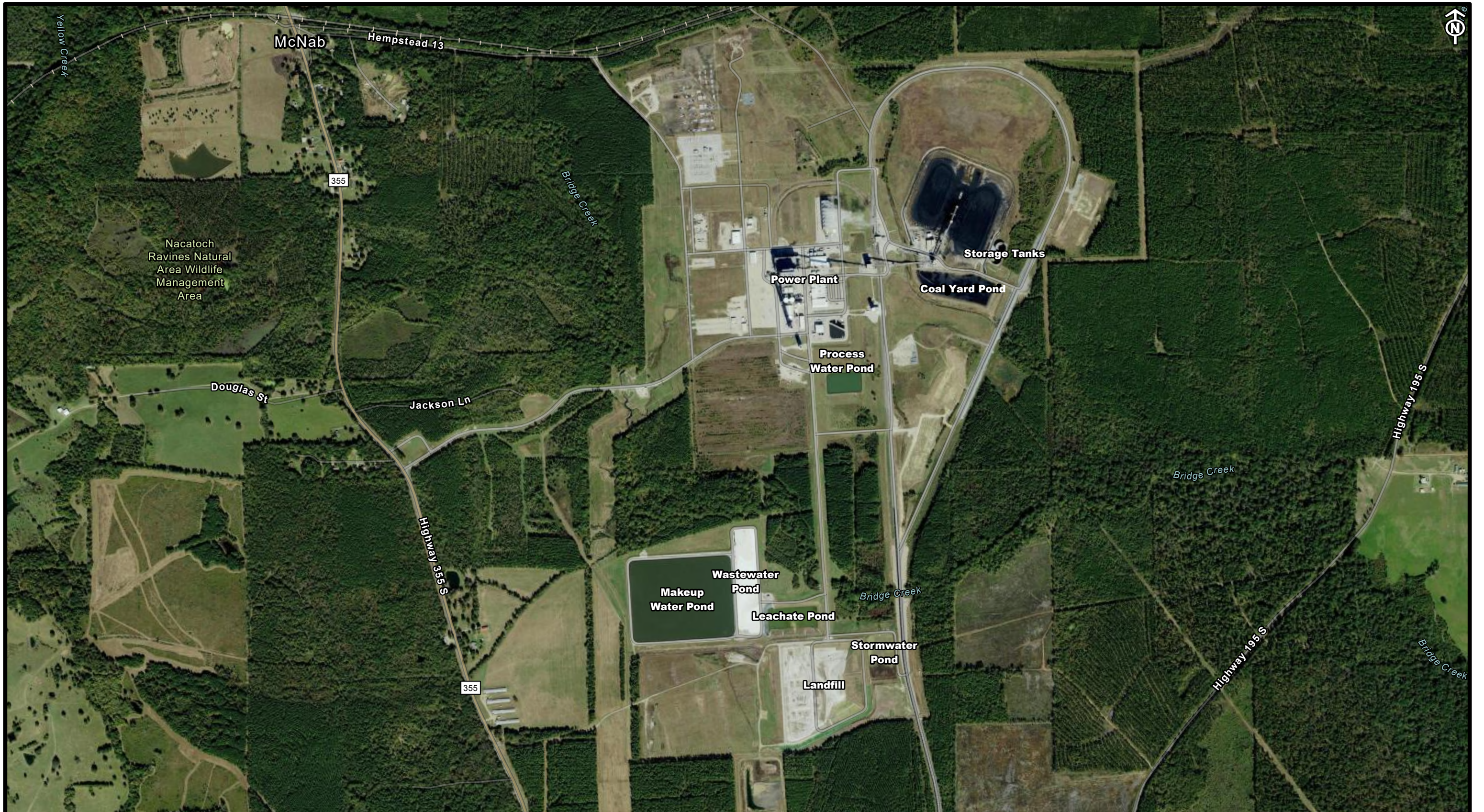
SITE LOCATION MAP

May 2024

Fig. 1

## **Figure 2 – Facility Plan**

---



2024 Annual CCR Landfill Inspection Report  
 Turk Power Plant  
 Fulton, Arkansas

American Electric Power Service Corporation  
 Columbus, OH 43215



Project 2305686

May 2024

FACILITY PLAN

Fig. 2

Path: d:\Working\AEP\2305686 2024 Dam & Landfill Field Insps\05\_GIS\ArcGIS\_Proj\2305686 2024 Dam & Landfill Field Insps.aprx



## Figure 3 – Site Plan

---

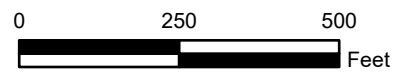


**LEGEND:**

● General Observation

**NOTES:**

1. Aerial image obtained from USDA NAIP. Image captured spring of 2021.
2. Points shown represent site conditions during time of inspection. Conditions may change overtime, accuracy is not guaranteed. Map should not be used for measurement.



2024 Annual CCR Landfill Inspection Report  
 Turk Power Plant  
 Fulton, Arkansas

American Electric Power Service Corporation  
 Columbus, OH 43215



Project 2305686 May 2024

SITE PLAN

Fig. 3

## **Figure 4 – Items to be Addressed**

---

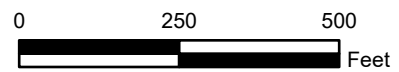


**LEGEND:**

● Repair

**NOTES:**

1. Aerial image obtained from USDA NAIP. Image captured spring of 2021.
2. Points shown represent site conditions during time of inspection. Conditions may change overtime, accuracy is not guaranteed. Map should not be used for measurement.



2024 Annual CCR Landfill Inspection Report  
 Turk Power Plant  
 Fulton, Arkansas

American Electric Power Service Corporation  
 Columbus, OH 43215



Project 2305686

ITEMS TO BE ADDRESSED

May 2024

Fig. 4

## **Appendix A - Photolog**


---

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686



PHOTOGRAPH NO: 1	DATE: April 16, 2024 11:26 AM	LATITUDE: 33.64002692	LONGITUDE: -93.81118298
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<p><b>DESCRIPTION:</b></p> <p>Leachate Collection Pond, East Inboard Dike. Looking South. Note Drain Inlet Structure and Stabilized Erosion Feature.</p>			
<p><b>PHOTO BY:</b></p> <p>GEI CONSULTANTS, INC.</p>			
PHOTOGRAPH NO: 2	DATE: April 16, 2024 11:30 AM	LATITUDE: 33.63991197	LONGITUDE: -93.81120125
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<p><b>DESCRIPTION:</b></p> <p>Leachate Collection Pond, North Inboard Dike. Looking West. Ground Cover, Typical Conditions.</p>			
<p><b>PHOTO BY:</b></p> <p>GEI CONSULTANTS, INC.</p>			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686



<b>PHOTOGRAPH NO: 3</b>	<b>DATE:</b> April 16, 2024 11:33 AM	<b>LATITUDE:</b> 33.6399127205441	<b>LONGITUDE:</b> -93.8111546504707
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Leachate Pond Inboard Dike. Looking West. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH NO: 4</b>	<b>DATE:</b> April 16, 2024 11:27 AM	<b>LATITUDE:</b> 33.6395458617488	<b>LONGITUDE:</b> -93.8109142007398
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Leachate Pond Inboard Dike, Letdown Channel. Looking Southwest at southern inboard slope. General Photo, Typical conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686

<b>PHOTOGRAPH NO: 5</b>	<b>DATE:</b> April 16, 2024 11:25 AM	<b>LATITUDE:</b> 33.6389422473519	<b>LONGITUDE:</b> -93.8108976308474
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Leachate Pond Inboard Dike. Looking Northwest. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH NO: 6</b>	<b>DATE:</b> April 16, 2024 11:22 AM	<b>LATITUDE:</b> 33.63871724	<b>LONGITUDE:</b> -93.81099782
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Leachate Collection Pond on right, Crest of non-contact stormwater dike. Looking West. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			





# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686

<b>PHOTOGRAPH NO: 7</b>	<b>DATE:</b> April 16, 2024 11:23 AM	<b>LATITUDE:</b> 33.6386989001598	<b>LONGITUDE:</b> -93.8109894616125
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Leachate Pond, Inboard Dike. Looking North. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH NO: 8</b>	<b>DATE:</b> April 16, 2024 11:17 AM	<b>LATITUDE:</b> 33.6386436	<b>LONGITUDE:</b> -93.81066069
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  North Landfill Perimeter Drainage Ditch. Looking East.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686



<b>PHOTOGRAPH NO: 9</b>	<b>DATE:</b> April 16, 2024 11:18 AM	<b>LATITUDE:</b> 33.638578371251	<b>LONGITUDE:</b> -93.8106765003455
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  North Landfill Cell 1 Area, Downstream Slope and Cap Cover. Looking South. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH NO: 10</b>	<b>DATE:</b> April 16, 2024 11:16 AM	<b>LATITUDE:</b> 33.638414900662	<b>LONGITUDE:</b> -93.8099600487132
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  North Landfill Cell 1 Area, Toe of Landfill. Looking West. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686



<b>PHOTOGRAPH No: 11</b>	<b>DATE:</b> April 16, 2024 11:14 AM	<b>LATITUDE:</b> 33.6385225	<b>LONGITUDE:</b> -93.80937129
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  North Landfill Cell 1 Area, Downstream Slope of Outboard Dike. Looking West. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 12</b>	<b>DATE:</b> April 16, 2024 11:08 AM	<b>LATITUDE:</b> 33.6382989	<b>LONGITUDE:</b> -93.80943161
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Drainage Structure, Cell 1 Outboard Slope Perimeter Ditch Drain. Looking East. Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686



<b>PHOTOGRAPH No: 13</b>	<b>DATE:</b> April 16, 2024 11:12 AM	<b>LATITUDE:</b> 33.63829704	<b>LONGITUDE:</b> -93.80934964
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  East Landfill Cell 1 Area, Access Road Berm of Outboard Dike. Looking South. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 14</b>	<b>DATE:</b> April 16, 2024 11:11 AM	<b>LATITUDE:</b> 33.63826364	<b>LONGITUDE:</b> -93.80935559
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Outlet Works, Cell 1 Outboard Slope, Stormwater Pond. Looking East. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686



<b>PHOTOGRAPH No: 15</b>	<b>DATE:</b> April 16, 2024 11:10 AM	<b>LATITUDE:</b> 33.6377281184557	<b>LONGITUDE:</b> -93.8101482033263
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  North Landfill Cell 1 Area, Top of Slope - Interim Cover. Looking Northwest. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 16</b>	<b>DATE:</b> April 16, 2024 11:07 AM	<b>LATITUDE:</b> 33.6374504554906	<b>LONGITUDE:</b> -93.8101856616144
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  East area, Downstream Slope Interim Cover. Looking Southeast. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686


<b>PHOTOGRAPH No: 17</b>	<b>DATE:</b> April 16, 2024 11:04 AM	<b>LATITUDE:</b> 33.63715648	<b>LONGITUDE:</b> -93.80930497
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Inside Southwest corner of Stormwater Pond. Looking East. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 18</b>	<b>DATE:</b> April 16, 2024 11:01 AM	<b>LATITUDE:</b> 33.63706414	<b>LONGITUDE:</b> -93.80939137
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  East Landfill Cell 1 Area, Toe of Interim Cover Slope. Looking North. Check Dam and Silt Build Up. Please Address Toe Ditch Obstructed Flow.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686



<b>PHOTOGRAPH No: 19</b>	<b>DATE:</b> April 16, 2024 10:46 AM	<b>LATITUDE:</b> 33.63588562	<b>LONGITUDE:</b> -93.8093574
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  South Landfill Cell 1 Area, Downstream Slope of Perimeter Berm. Looking Southwest. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 20</b>	<b>DATE:</b> April 16, 2024 10:45 AM	<b>LATITUDE:</b> 33.6358175	<b>LONGITUDE:</b> -93.80955839
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  South Landfill Cell 1 Area, Toe of Slope, Closure Turf Test Pad. Looking West. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686

<b>PHOTOGRAPH No: 21</b>	<b>DATE:</b> April 16, 2024 10:48 AM	<b>LATITUDE:</b> 33.63620245	<b>LONGITUDE:</b> -93.8097932
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  South Landfill Cell 1 Area, Slope of Landfill and Perimeter Berm. Looking Northeast. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 22</b>	<b>DATE:</b> April 16, 2024 10:50 AM	<b>LATITUDE:</b> 33.6362127624876	<b>LONGITUDE:</b> -93.8098006815265
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  South Landfill Cell 1 Area, Interim Cover on Slope. Looking North. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			





# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686



<b>PHOTOGRAPH No: 23</b>	<b>DATE:</b> April 16, 2024 10:48 AM	<b>LATITUDE:</b> 33.6361134314961	<b>LONGITUDE:</b> -93.8100407232091
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  South Landfill Cell 1 Area, Closureturf Test Pad. Looking Southwest. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 24</b>	<b>DATE:</b> April 16, 2024 10:56 AM	<b>LATITUDE:</b> 33.6363873252407	<b>LONGITUDE:</b> -93.8101502728039
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  South Landfill Cell 1 Area, Landfill Crest. Looking North. Ground Cover, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686

<b>PHOTOGRAPH No: 25</b>	<b>DATE:</b> April 16, 2024 10:58 AM	<b>LATITUDE:</b> 33.6362596195211	<b>LONGITUDE:</b> -93.810466298822
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  South Landfill Cell 1 Area, Material Processing Landfill Crest Area. Looking North. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 26</b>	<b>DATE:</b> April 16, 2024 11:00 AM	<b>LATITUDE:</b> 33.6361498757768	<b>LONGITUDE:</b> -93.8107605224506
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  West Landfill Cell 1 Area, Material Processing Area. Looking West -Northwest. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686



<b>PHOTOGRAPH No: 27</b>	<b>DATE:</b> April 16, 2024 10:40 AM	<b>LATITUDE:</b> 33.63562343	<b>LONGITUDE:</b> -93.81050352
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Upper section of Closureturf Test Pad. Looking North. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 28</b>	<b>DATE:</b> April 16, 2024 10:43 AM	<b>LATITUDE:</b> 33.6355962806973	<b>LONGITUDE:</b> -93.8104916427066
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Upper section of Closureturf Test Pad. Looking East-Northeast. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686



<b>PHOTOGRAPH No: 29</b>	<b>DATE:</b> April 16, 2024 10:28 AM	<b>LATITUDE:</b> 33.6355038	<b>LONGITUDE:</b> -93.81080271
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  South Landfill Cell 1 Area, Downstream Slope of Perimeter Berm. Looking South. Drain Feature, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 30</b>	<b>DATE:</b> April 16, 2024 10:26 AM	<b>LATITUDE:</b> 33.63545003	<b>LONGITUDE:</b> -93.8107797
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  South Landfill Cell 1 Area, Landfill Stormwater Down chute, Looking North, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686


<b>PHOTOGRAPH No: 31</b>	<b>DATE:</b> April 16, 2024 10:26 AM	<b>LATITUDE:</b> 33.6354420249805	<b>LONGITUDE:</b> -93.8108409558186
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  South Landfill Cell 1 Area, Landfill Slope and perimeter access road. Looking Northeast. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 32</b>	<b>DATE:</b> April 16, 2024 10:23 AM	<b>LATITUDE:</b> 33.6350148107474	<b>LONGITUDE:</b> -93.8121491172858
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  South Landfill Cell 2 Area, Looking Northeast. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686


<b>PHOTOGRAPH No: 33</b>	<b>DATE:</b> April 16, 2024 10:21 AM	<b>LATITUDE:</b> 33.634857054427	<b>LONGITUDE:</b> -93.8121931534636
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Leachate Collection System. Looking Northeast. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 34</b>	<b>DATE:</b> April 16, 2024 10:14 AM	<b>LATITUDE:</b> 33.63481567	<b>LONGITUDE:</b> -93.81315383
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  South Landfill Cell 2 Area, Outboard Slope of Perimeter Berm. Looking East. Note Synthetic Turf material and Perimeter Drainage Channel			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686



<b>PHOTOGRAPH No: 35</b>	<b>DATE:</b> April 16, 2024 10:11 AM	<b>LATITUDE:</b> 33.63497463	<b>LONGITUDE:</b> -93.8129043
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Inboard Slope of Active Cell 2. Looking North. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 36</b>	<b>DATE:</b> April 16, 2024 10:09 AM	<b>LATITUDE:</b> 33.63502897	<b>LONGITUDE:</b> -93.81299125
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  South Landfill Cell 2 Area, Outboard Slope of Temporary Berm. Active Cell 2. Looking North. Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686

<b>PHOTOGRAPH No: 37</b>	<b>DATE:</b> April 16, 2024 10:08 AM	<b>LATITUDE:</b> 33.6352621487202	<b>LONGITUDE:</b> -93.8128571552294
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  South Landfill Cell 2 Area, Perimeter Ditch. Looking North. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 38</b>	<b>DATE:</b> April 16, 2024 9:59 AM	<b>LATITUDE:</b> 33.6384039419313	<b>LONGITUDE:</b> -93.8130426372581
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  North Landfill Cell 2 Area. Looking East. Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			





# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686

<p><b>PHOTOGRAPH No: 39</b></p>	<p><b>DATE:</b> April 16, 2024 9:57 AM</p>	<p><b>LATITUDE:</b> 33.63846696</p>	<p><b>LONGITUDE:</b> -93.81305696</p>
<p><b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS</p>			
<p><b>DESCRIPTION:</b>  North Landfill Cell 2 Area, Inboard Slope. Cell 1 Outboard Slope with Interim Slope Cover. Looking Southeast, Note Length of Slope.</p>			
<p><b>PHOTO BY:</b>  GEI CONSULTANTS, INC.</p>			
<p><b>PHOTOGRAPH No: 40</b></p>	<p><b>DATE:</b> April 16, 2024 9:55 AM</p>	<p><b>LATITUDE:</b> 33.638490748954</p>	<p><b>LONGITUDE:</b> -93.8130838177693</p>
<p><b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS</p>			
<p><b>DESCRIPTION:</b>  North Landfill Cell 2 Area, Outboard Dike. Looking South. Ground Cover, Typical Conditions.</p>			
<p><b>PHOTO BY:</b>  GEI CONSULTANTS, INC.</p>			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686



<b>PHOTOGRAPH No: 41</b>	<b>DATE:</b> April 16, 2024 11:52 AM	<b>LATITUDE:</b> 33.6387779107469	<b>LONGITUDE:</b> -93.8126191669509
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Leachate Pond Inboard Dike. Looking Southwest. Please address sloughing on the berm and revegetate.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 42</b>	<b>DATE:</b> April 16, 2024 11:48 AM	<b>LATITUDE:</b> 33.63903839	<b>LONGITUDE:</b> -93.81360083
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Leachate Pond, Southwest corner. Looking east. General photo, typical conditions			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686



<b>PHOTOGRAPH No: 43</b>	<b>DATE:</b> April 16, 2024 11:48 AM	<b>LATITUDE:</b> 33.6391151642733	<b>LONGITUDE:</b> -93.8136579047572
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Leachate Pond, Southwest corner. Looking east. General photo, typical conditions			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 44</b>	<b>DATE:</b> April 16, 2024 11:47 AM	<b>LATITUDE:</b> 33.6393301484848	<b>LONGITUDE:</b> -93.8136179413534
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Synthetic Cover on Inboard Dike Leachate Pond. Looking North. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686



<b>PHOTOGRAPH No: 45</b>	<b>DATE:</b> April 16, 2024 11:40 AM	<b>LATITUDE:</b> 33.63996413	<b>LONGITUDE:</b> -93.81320783
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Leachate Pond Area, Looking South. General Photo, Typical Conditions. Note black sacrificial liner on top of primary liner.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 46</b>	<b>DATE:</b> April 16, 2024 11:40 AM	<b>LATITUDE:</b> 33.639963717438	<b>LONGITUDE:</b> -93.8131947961675
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Leachate Pond Area, Looking South. General Photo, Typical Conditions. Note black sacrificial liner on top of primary liner.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			

# Photographic Log



**Project:** Turk Power Plant, Landfill Inspection  
**Client:** American Electric Power

**GEI Project:** 2305686

<b>PHOTOGRAPH No: 47</b>	<b>DATE:</b> April 16, 2024 11:35 AM	<b>LATITUDE:</b> 33.639937520843	<b>LONGITUDE:</b> -93.8118303231222
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Leachate Pond Area Looking South. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			
<b>PHOTOGRAPH No: 48</b>	<b>DATE:</b> April 16, 2024 11:36 AM	<b>LATITUDE:</b> 33.63994491	<b>LONGITUDE:</b> -93.81178737
<b>SITE LOCATION:</b> TURK POWER PLANT, FULTON ARKANSAS			
<b>DESCRIPTION:</b>  Leachate Pond Area Looking South. General Photo, Typical Conditions.			
<b>PHOTO BY:</b>  GEI CONSULTANTS, INC.			