





Primary Bottom Ash and Clearwater Pond 2024 Annual Dam and Dike Inspection Report

Welsh Power Plant, Cason, Texas

Submitted to:

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Submitted by:

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August 13, 2024 Project 2305686 AEP Document ID: GEVR-24-008

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2024 Annual Inspection Report



Primary Bottom Ash and Clearwater Pond Welsh Power Plant AEP Document ID: GEVR-24-008

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Signature

Noelle Gaspard, PE Water Resources Practice Lead GEI Consultants, Inc.

August 13, 2024
Date



I certify, to the best of my knowledge, that the information provided in this report satisfies the requirements of 40 CFR 257.83(b).

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JRF

 $B: Working \ AEP \ 2305686\ 2024\ Dam\ \&\ Land fill\ Field\ Insps \ 08_FINAL\ INSPECTION\ REPORTS \ 07 Welsh \ Primary\ Bottom\ Ash\ Pond\ and\ Clearwater\ Pond \ VINAL_2024\ Welsh\ CCR\ Primary\ Bottom\ Ash\ and\ Clearwater\ Pond \ docx$

1. Introduction

GEI Consultants, Inc. was retained by AEP to implement the 2024 Dam and Dike Inspection and Maintenance Program at AEP facilities. As part of the program, GEI's Pedro Amaya, PE and Aria Fathi, PE performed the 2024 inspection for the Primary Bottom Ash Pond (PBAP) and Clearwater Pond at the Welsh Power Plant. Mr. W. Greg Carter, PE of AEP's Regional Engineering participated in the inspection and provided contextual background. This report was prepared by Pedro Amaya, PE and Jeff Piaskowski, PE 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 March 19, 2024, in general accordance with the Mining Safety and Health Administration (MSHA) Dam Inspection Guidelines. Weather conditions were sunny with mild temperatures approximately 60 degrees Fahrenheit. According to the rain gauge at the plant, there was approximately 1.85-inches of rain in the 7 days prior to the inspection, and no precipitation the day of this inspection.

The AEP J. Robert Welsh Plant is located in southern Titus County, approximately 8 miles northeast of Pittsburg, Texas, and approximately two miles northwest of Cason, Texas as shown on Figure 1 – Site Location Map. The facility arrangement is provided on Figure 2 – Facility Plan. This report contains the inspection findings, observations, photographic descriptions, conclusions, and maintenance recommendations. 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, item to be monitored, or as an item to be addressed. The general site observations are presented on Figure 3 – Site Plan and the Items to be addressed are on Figure 4 – Items to be Addressed. No items during the inspection were identified as items to be monitored.

2. Description of Impoundments

2.1 Primary Bottom Ash Pond

The Primary Bottom Ash Pond was placed into operation in 1977 and is located in a topographically low area that had been an unnamed intermittent tributary of Swauano Creek prior to development of the Site. The Primary Bottom Ash Pond is bounded by natural ground surface (topographically higher areas) to the north and west, and an embankment dike to the east and canal to the south. The elevation at the top of embankment along the crest area is approximately 340.0 feet above msl and the toe elevation of the embankment is approximately 300.0 feet above msl. The Primary Bottom Ash Pond embankment is approximately 40 feet in height. The downstream slope of the Primary Bottom Ash Pond embankment is inundated by the cooling lake reservoir (Normal Lake Level is 320.0 feet above msl). These dikes are predominantly constructed of compacted sandy clay and clayey sand. The embankment dike south of the PBAP includes a drainage canal that receives overflow (clear) water from the PBAP. The water level in the PBAP is controlled by a weir box which discharges into the drainage canal. The primary emergency spillway, which consists of a concrete weir set within an earthen channel that discharges into the drainage canal; the primary emergency spillway is approximately 950 feet to the west of the embankment. The clear water in the drainage canal flows east and discharges into the Clearwater Pond. The secondary emergency spillway is located at the right end of the embankment and discharges directly into the Clearwater Pond. The secondary emergency spillway has a 30-foot-wide bottom and a crest elevation of 335 feet msl and 10H:1V side slopes. Combined the secondary emergency spillway has a total width of 130 feet and depth of 5 feet. Flows through the secondary emergency spillway discharge directly into the Clearwater Pond. The storage capacity of the Primary Bottom Ash Pond at elevation 334 feet above msl is approximately 319.22 acre-ft. The water level was at 331.8 feet at the time of this inspection.

2.2 Clearwater Pond

The Clearwater Pond was placed into operation in 1977 and is in a topographically low area that had been an unnamed intermittent tributary of Swauano Creek that existed prior to the development of the facility. The Clearwater Pond is bounded by the Primary Bottom Ash Pond to the north and west, and embankment dikes to the north, south, and east. The elevation at the top of embankment, along the crest area, is approximately 340 feet above msl; and the upstream toe elevation of the embankment is approximately 320 feet above msl. The downstream slope of the Clearwater Pond embankment is inundated by the cooling lake reservoir (Normal Lake Level= 320.53 feet above msl the day of the inspection). These dikes are predominantly

Primary Bottom Ash and Clearwater Pond 2024 Annual Dam and Dike Inspection Report Welsh Power Plant, Cason, Texas August 13, 2024

constructed of compacted sandy clay and clayey sand. The embankment dike south of the Primary Bottom Ash Pond includes a drainage canal that receives overflow (clear) water from the Primary Bottom Ash Pond. The water level in the Clearwater Pond is controlled by a weir box which discharges into the drainage canal. The Clearwater Pond embankment is approximately 40 feet in height. The water level was at 329.50 feet at the time of inspection.

3. Review of Available Information (257.83(b)(1)(i))

A review of available information regarding the status and condition of the PBAP and Clearwater Pond, which include files available in the CCR operating record, such as design and construction information, periodic structural stability assessments, previous 7-day inspection reports, 30-day instrumentation data, and previous annual inspections has been conducted. Based on the review of the data there were no signs of actual or potential structural weakness or adverse conditions.

4. Changes in Geometry Since Last Information (257.83(b)(2)(i))

No modifications have been made to the geometry of the Primary Bottom Ash Pond or the Clearwater Pond since the last annual inspection. The geometry of the impoundment has remained essentially unchanged.

5. Changes That Effect Stability or Operation (257.83(b)(2)(vii))

No changes have been made that would affect the stability of the Primary Bottom Ash Pond or the Clearwater Pond since the last annual inspection.

6. Impoundment Characteristics (257.83(b)(2)(iii, iv, v))

6.1 Primary Bottom Ash Pond

Table 1 is a summary of the minimum, maximum, and present depth and elevation of the impounded water and CCR material since the previous annual inspection; the storage capacity of the impounding structure at the time of the inspection; and the approximate volume of the impounded water at the time of the inspection.

Table 1 Summary of Relevant Storage Information for Primary Bottom Ash Pond

	Primary Bottom Ash Pond
Approximate Minimum depth of impounded water since last annual inspection	31.8 ft (331.8 ft)
Approximate Maximum depth of impounded water since last	32.8 ft
Approximate Present depth of impounded water at the time of the inspection	(332.8 ft) 31.8 ft (331.8 ft)
Approximate Minimum depth of CCR since last annual inspection	10.0 ft (310.0 ft)
Approximate Maximum depth of CCR since last annual inspection	33.8 ft (333.80 ft)
Approximate Present depth of CCR at the time of the inspection	32.5 ft (332.5 ft)
Storage Capacity of impounding structure at the time of the inspection	319.22 acre-ft
Approximate volume of impounded water at the time of the inspection	99.22 acre-ft
Approximate volume of CCR at the time of the inspection	200 acre-ft

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6.2 Clearwater Pond

Table 2 is a summary of the minimum, maximum, and present depth and elevation of the impounded water since the previous annual inspection; the storage capacity of the impounding structure at the time of the inspection; and the approximate volume of the impounded water at the time of the inspection.

Table 2 Summary of Relevant Storage Information for Clearwater Pond

	Clearwater Pond
Approximate Minimum water elevation since last annual	(329.2 ft)
inspection	
Approximate Maximum water elevation since last annual	(329.7 ft)
inspection	
Approximate water elevation at the time of the inspection	(329.5 ft)
Storage Capacity of impounding structure at the time of the	36.9 acre-ft
inspection (elev. 330)	30.9 acre-it
Approximate volume of impounded water at the time of the	25.2
inspection	35.2 acre-ft

7. Inspection (257.83(b)(1)(ii))

7.1 General

The summary of the visual observations uses terms to describe the general appearance or condition of an observed item, activity or structure. Their meaning is understood 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 or 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 previously identified in the previous

inspections, but have not yet been corrected.

Excessive: A reference to an observed item (e.g., erosion, seepage,

vegetation, etc.) where the current maintenance condition is below 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.

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In addition, a "deficiency" is some evidence that a dam has developed a problem that could impact the structural integrity of the dam. There are four general categories of deficiencies. These four categories are described below:

Uncontrolled Seepage

O Uncontrolled seepage is seepage that is not behaving as the design engineer has intended. An example of uncontrolled seepage is seepage that comes through or around the embankment and is not picked up and safely carried off by a drain. Seepage that is collected by a drain can still be uncontrolled if it is not safely collected and transported, such as seepage that is not clear. Seepage that is unable to be measured and/or observe it is considered uncontrolled seepage.

[Wet or soft areas are not considered as uncontrolled seepage, but can lead to this type of deficiency. These areas should be monitored frequently.]

• Displacement:

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

• Blockage of Control Features:

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

• 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.

7.2 Visual Inspection (257.83(b)(2)(i))

A visual inspection of the Primary Bottom Ash Pond and Clearwater Pond was conducted to identify any signs of distress or malfunction of the impoundment and appurtenant structures. Specific items inspected included all structural elements, such as upstream and downstream slopes, crest, and toe.

7.2.1 Primary Bottom Ash Pond

- 1. The two ash discharge pipes are located at the northeast corner of the pond. Other effluent from the plant is discharged at the north dike. All the sluice pipes and base support did not indicate any sign of misalignment, settlement, or deterioration. Overall, the discharge pipes appeared in good functional condition as shown in Photograph No. 1 and No. 2.
- 2. The upstream slope, crest, and downstream slope of the east dike appeared in satisfactory and stable condition as shown in Photographs No. 3 through No. 8. There were no signs of settlement, misalignment, sloughing or erosion.
- 3. The south section of the dike is slightly overgrown with vegetation along the upstream slope. The dike appeared in good and functional condition without any significant erosion, settlement, or misalignment as shown in Photograph No. 5.
- 4. The north dike, which also supports the railroad tracks, appeared in good and stable condition. Excessive vegetation was noticed covering the upstream slope.
- 5. The primary emergency spillway is located towards the southeast section of the south dike. A concrete weir is located at the spillway was mostly buried in the ground. The primary emergency spillway appeared to be in satisfactory condition as shown in Photographs No. 19, No. 20, and No. 21. The secondary emergency spillway appeared in satisfactory condition as shown in Photographs No. 7 and No. 8.
- 6. The canal conveys clear water from southwest corner of the Primary Bottom Ash Pond to the Clearwater Pond located at the southeast end. Positive drainage was document from the Primary Bottom Ash Pond to the Clearwater Pond, which indicates the ponds are functioning as designed.

7.2.2 Clearwater Pond

In general, the Clearwater Pond area appeared to be in satisfactory condition, with no observed signs of settlement, misalignment, sloughing, erosion, or seepage. Details of the visual inspection are presented below.

1. The exterior slope sections were in satisfactory condition with vegetative cover on the lower section and the upper slope graded to 3H:1V as shown in Photographs No.13 through No. 16. The vegetation on the exterior slopes were well controlled having been recently mowed. Some minor overgrown vegetation was observed in the lower sections.

The crest of the east embankment was in good condition with no observed signs of misalignment, settlement, cracks, or significant deformation as shown in Photograph No. 16. There was an area with significant vehicular ruts on the crest of the northern dike as shown in Photograph No. 10.

- 2. The interior slopes were in fair and stable condition with slightly overgrown vegetation present along the lower section of the slopes near the waterline as shown in Photographs No. 9, No. 11, No. 13, and No. 22.
- 3. The south embankment crest, and interior and exterior slopes were in good condition with no observed signs of misalignment, settlement, cracks, or significant deformation. Slightly overgrown vegetation was present at the lower section of the interior slope and partly at the exterior slope.
- 4. The overflow discharge structure was functioning as designed. The water flow through underground pipe appeared to be working without any obstruction.
- 5. The emergency spillway of the Clearwater Pond was in fair condition and with some overgrown cattails near the water edge and some minor erosion throughout the channel as shown in Photograph No. 17 and No. 18.

Overall, the facility is in satisfactory condition. The impoundment is functioning as intended with no signs of potential structural weakness or conditions which are detrimental to the safe operation of the impoundment.

7.3 Instrumentation (257.83(b)(2)(ii))

The monitoring instrumentation for the Primary Bottom Ash Pond consists of the one piezometer (B-2) located through the main embankment area. The location of the instrumentation is shown Figure 3 – Site Plan. Piezometer B-2 levels appeared consistent from month to month and reacted to the fluctuation in tail water levels (i.e., main lake). The piezometer monitoring results are provided in Appendix B – Piezometer Monitoring Results.

The monitoring instrumentation for the Clearwater Pond consists of three piezometers (B4, B5, and B6). The location of the instrumentation is shown Figure 3 – Site Plan. The piezometer levels appeared consistent from month to month and reacted to the fluctuation in tail water levels (i.e., main lake). The piezometer monitoring results are provided in Appendix B – Piezometer Monitoring Results.

8. Summary of Findings

Based on the visual observations and the inspection of the facilities, the embankments and appurtenances are generally in satisfactory condition. Specific conclusions related to this inspection is included as follows.

- The Primary Bottom Ash Pond is operating as designed and there is no evidence of distress that would indicate the possibility of immediate sliding, slope instability, settlement, misalignment, or cracking of the ash pond embankments. As such, it is concluded that the dam and dikes are performing as designed.
- The Clearwater Pond is operating as designed and shows no significant signs of distress, slope instability, dike misalignment or settlement.
- Some overgrown vegetation was noticed throughout the pond areas and should be maintained as needed.

8.1 General Maintenance Considerations

Vegetation management is considered satisfactory and should continue to have vegetation growth controlled as needed.

Continue to inspect for animal activity— maintain as needed. If vegetation begins to block the spillways, it should be promptly cleared.

8.2 Items to be Monitored

Not applicable

8.3 Items to be Addressed

- Item 8 Address vehicle ruts on the crest of the Primary Bottom Ash Pond secondary emergency spillway.
- Item 10 Address vehicle ruts on the crest of the Clearwater Pond.

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8.4 Deficiencies (257.83(b)(2)(i))

There were no deficiencies or signs of structural integrity issues or disruptive conditions that were observed at the time of the inspection that would require additional investigation or remedial action.

If you have any questions with regard to this report, please do not hesitate to contact Greg Carter at (903) 927-5896 / wgcarter@aep.com or Bryan Brunton at (614) 447-2659 / bwbrunton@aep.com.

Figure 1 – Site Location Map

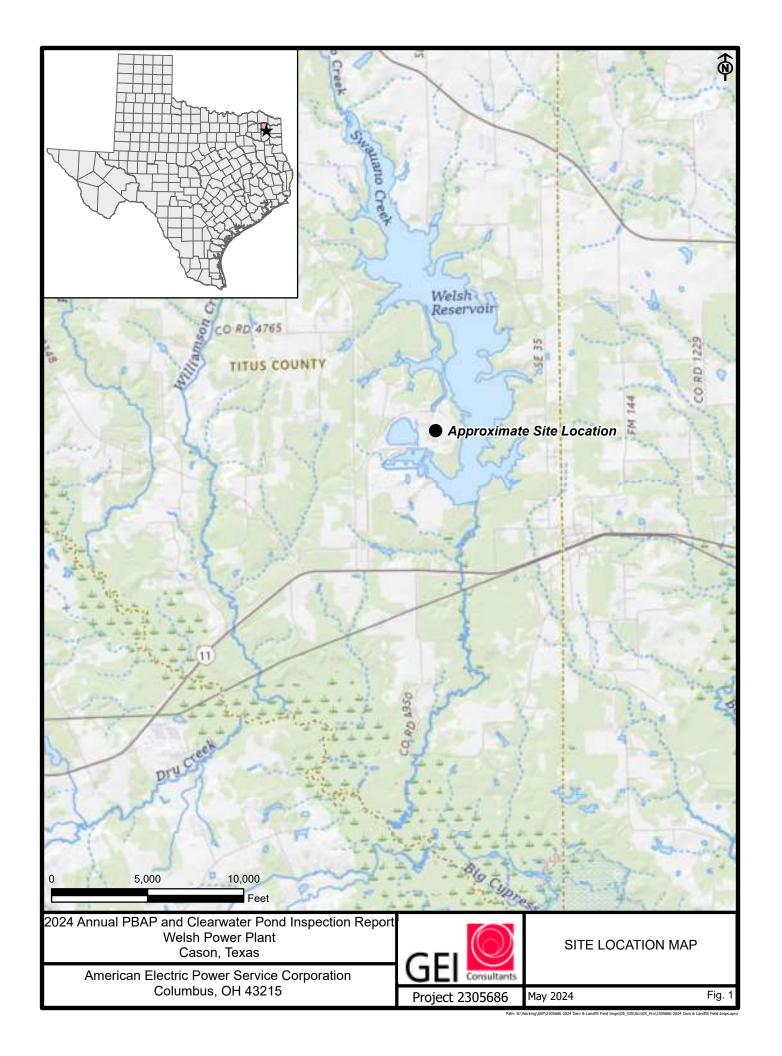


Figure 2 – Facility Plan

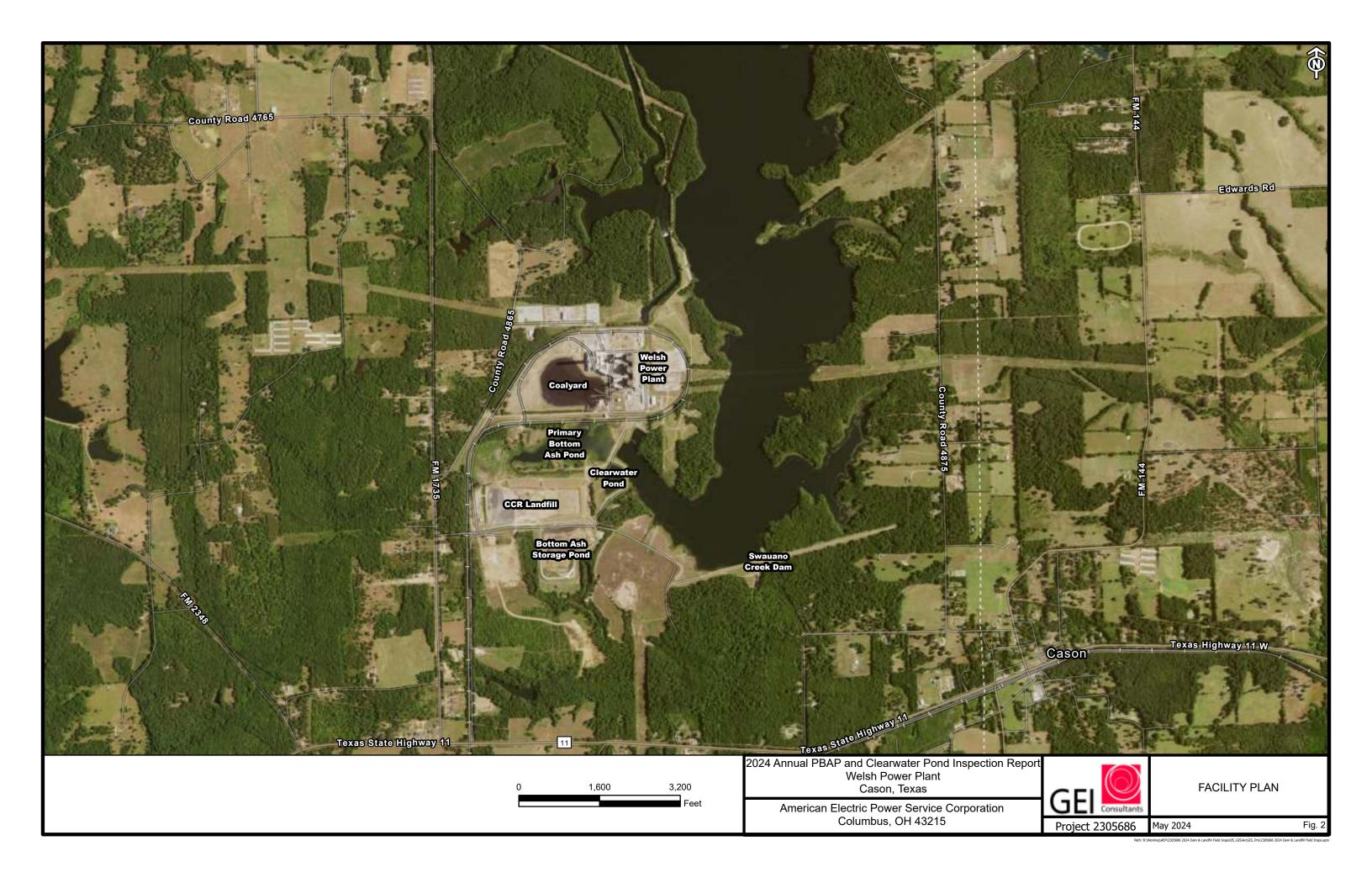


Figure 3 – Site Plan

Figure 4 – Items to be Addressed



Appendix A – Photolog



Project: Welsh Power Plant, Primary Bottom Ash and Clearwater Pond Inspection

Client: American Electric Power GEI Project: 2305686

PHOTOGRAPH NO: 1	DATE:	LATITUDE:	LONGITUDE:
PHOTOGRAPH NO. 1	March 18, 2024 5:24 PM	33.05210155	-94.84046025

DIRECTION: South **SITE LOCATION:** CASON, TEXAS

DESCRIPTION:

North area, Upstream Slope of Upstream Dike. Looking South. Bottom Ash Excavation.



рното ву:

GEI CONSULTANTS, INC.

PHOTOGRAPH NO: 2	DATE: March 18, 2024 5:25 PM	LATITUDE: 33.0520556588112	Longitude: -94.8404172829192
DIRECTION: West	SITE LOCATION: CASON, TEXAS		

DESCRIPTION:

Upstream Slope. Looking West. General Photo, Typical Conditions.



РНОТО ВҮ:



Project: Welsh Power Plant, Primary Bottom Ash and Clearwater Pond Inspection

Client: American Electric Power GEI Project: 2305686

PHOTOGRAPH NO: 3	DATE:	LATITUDE:	LONGITUDE:
	March 18, 2024 5:23 PM	33.05195973	-94.84038307

DIRECTION: South **SITE LOCATION:** CASON, TEXAS

DESCRIPTION:

North area, Crest of Original Dam. Looking South. General Photo, Typical Conditions.



рното ву:

GEI CONSULTANTS, INC.

PHOTOGRAPH NO: 4	DATE: March 18, 2024 5:23 PM	LATITUDE: 33.0519609012867	Longitude: -94.8402896047855
DIRECTION: South	SITE LOCATION: CASON, TEXAS		

DESCRIPTION:

North area, Downstream Slope. Looking South. General Photo, Typical Conditions.



РНОТО ВҮ:



Project: Welsh Power Plant, Primary Bottom Ash and Clearwater Pond Inspection
Client: American Electric Power GEI Project: 2305686

Duotocnanu No. F	DATE:	LATITUDE:	LONGITUDE:	
	PHOTOGRAPH NO: 5	March 18, 2024 5:35 PM	33.0505012	-94.84151426

DIRECTION: North **SITE LOCATION:** CASON, TEXAS

DESCRIPTION:

South area, Upstream Slope of Original Dam. Looking North. General Photo, Typical Conditions.



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GEI CONSULTANTS, INC.

PUOTOCRARU NO. 6	DATE:	LATITUDE:	LONGITUDE:
PHOTOGRAPH NO: 6	March 18, 2024 5:36 PM	33.05043917	-94.84128814

DIRECTION: North **SITE LOCATION:** CASON, TEXAS

DESCRIPTION:

South area, Downstream Slope of Primary Bottom Ash Pond Dike. Looking North. General Photo, Typical Conditions.



рното ву:



Project: Welsh Power Plant, Primary Bottom Ash and Clearwater Pond Inspection

Client: American Electric Power GEI Project: 2305686

Buotochanu No. 7	DATE:	LATITUDE:	LONGITUDE:
PHOTOGRAPH NO: 7	March 18, 2024 5:39 PM	33.05033024	-94.84147485

DIRECTION: South **SITE LOCATION:** CASON, TEXAS

DESCRIPTION:

Secondary Emergency Spillway area, Crest of dam, Looking South. Drainage Feature and Access Road.



рното ву:

GEI CONSULTANTS, INC.

PHOTOGRAPH NO: 8	DATE: March 18, 2024 5:40 PM	LATITUDE: 33.0503373890308	Longitude: -94.841429415108
DIRECTION: South	SITE LOCATION: CASON, TEXAS		

DESCRIPTION:

South area, Secondary Spillway. Looking South. General Photo, ruts to be addressed.



РНОТО ВҮ:



Project: Welsh Power Plant, Primary Bottom Ash and Clearwater Pond Inspection

Client: American Electric Power GEI Project: 2305686

Puotocnanu No. 0	DATE:	LATITUDE:	LONGITUDE:
PHOTOGRAPH NO: 9	March 19, 2024 5:56 PM	33.05015707	-94.84108904

DIRECTION:

SITE LOCATION: CASON, TEXAS

DESCRIPTION:

South area, Upstream Slope of Inboard Dike. Looking South. Typical Conditions.



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GEI CONSULTANTS, INC.

Рнотодгарн No: 10	DATE: March 19, 2024 5:57 PM	LATITUDE: 33.05017259	LONGITUDE: -94.8410859
DIRECTION: East	SITE LOCATION: CASON, TEXAS		

DESCRIPTION:

North area, Crest of Original Dam. Looking East. Ruts to be addressed.



рното ву:



Project: Welsh Power Plant, Primary Bottom Ash and Clearwater Pond Inspection

Client: American Electric Power GEI Project: 2305686

DUOTOCRADU NO. 11	DATE:	LATITUDE:	Longitude:
PHOTOGRAPH NO: 11	March 19, 2024 5:54 PM	33.04992414	-94.84046464

DIRECTION: Northwest **SITE LOCATION:** CASON, TEXAS

DESCRIPTION:

North area, Downstream Slope of Outboard Dike. Looking Northwest. Typical Conditions.



рното ву:

GEI CONSULTANTS, INC.

PHOTOGRAPH NO: 12	DATE: March 19, 2024 5:50 PM	LATITUDE: 33.04885323	Longitude: -94.84044372
DIRECTION: North	SITE LOCATION: CASON, TEXAS		

DESCRIPTION:

East area, Downstream Slope of Outboard Dike. Looking North. Typical Conditions.



РНОТО ВҮ:



Project: Welsh Power Plant, Primary Bottom Ash and Clearwater Pond Inspection

Client: American Electric Power GEI Project: 2305686

SITE LOCATION: CASON, TEXAS

	Duotoco Apu No. 12	DATE:	LATITUDE:	LONGITUDE:
March 19, 2024 5:51 PM 33.0488236164499 -94.84043238	PHOTOGRAPH NO: 13	March 19, 2024 5:51 PM	33.0488236164499	-94.8404323815391

DESCRIPTION:

DIRECTION: West

South area, Crest. Looking West. General Photo, Typical Conditions.



рното ву:

GEI CONSULTANTS, INC.

Рнотодгарн No: 14	DATE: March 19, 2024 5:45 PM	L ATITUDE: 33.04834439	Longitude: -94.84147004
DIRECTION: East	SITE LOCATION: CASON, TEXAS		

DESCRIPTION:

South area, Downstream Slope of Outboard Dike. Looking East. Typical Conditions.



РНОТО ВҮ:



Project: Welsh Power Plant, Primary Bottom Ash and Clearwater Pond Inspection

Client: American Electric Power GEI Project: 2305686

Buotochanu No. 15	DATE:	LATITUDE:	LONGITUDE:
PHOTOGRAPH NO: 15	March 19, 2024 5:47 PM	33.04834745	-94.84145359

DIRECTION: SITE LOCATION: CASON, TEXAS

DESCRIPTION:

South area, Upstream Slope of Inboard Dike. Looking North. Typical Conditions.



рното ву:

GEI CONSULTANTS, INC.

PHOTOGRAPH NO: 16	DATE: March 19, 2024 5:45 PM	L ATITUDE: 33.0483290084837	Longitude: -94.8415166578401
DIRECTION: East	SITE LOCATION: CASON, TEXAS		

DESCRIPTION:

South area, Crest. Looking East. General Photo, Typical Conditions.



РНОТО ВҮ:



Project: Welsh Power Plant, Primary Bottom Ash and Clearwater Pond Inspection

Client: GEI Project: 2305686

PHOTOGRAPH NO: 17	DATE: March 19, 2024 6:05 PM	LATITUDE: 33.04830927	Longitude: -94.84193548
DIRECTION: Northeast	SITE LOCATION: CASON, TEXAS		

DESCRIPTION:

Spillway area, Control Mechanism. Looking Northeast. Typical Conditions.



рното ву:

GEI CONSULTANTS, INC.

PHOTOGRAPH No: 18	DATE: March 19, 2024 6:06 PM	L ATITUDE: 33.04832445	LONGITUDE: -94.84196422
DIRECTION: South	SITE LOCATION: CASON, TEXAS		

DESCRIPTION:

Emergency Spillway. Looking downstream (South). Typical Conditions.



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Project: Welsh Power Plant, Primary Bottom Ash and Clearwater Pond Inspection

Client: GEI Project: 2305686

SITE LOCATION: CASON, TEXAS

PHOTOGRAPH NO: 19	DATE:	LATITUDE:	LONGITUDE:
PHOTOGRAPH NO. 19	March 18, 2024 6:13 PM	33.0503973040523	-94.8449517541235

DESCRIPTION:

DIRECTION: North

Emergency Spillway. Looking Upstream (North). Typical Conditions.



рното ву:

GEI CONSULTANTS, INC.

Рнотодгарн No: 20	DATE:	LATITUDE:	LONGITUDE:
	March 18, 2024 6:15 PM	33.05039831	-94.8450046
DIRECTION: South	SITE LOCATION: CASON, TEXAS		

DESCRIPTION:

Spillway area, Primary Emergency Spillway. Looking Downstream (South). Typical Conditions.



рното ву:



Project: Welsh Power Plant, Primary Bottom Ash and Clearwater Pond Inspection

Client: GEI Project: 2305686

Duotoch Anu No. 31	DATE:	LATITUDE:	LONGITUDE:
PHOTOGRAPH NO: 21	March 18, 2024 6:13 PM	33.05042144	-94.84501093

DIRECTION: North **SITE LOCATION:** CASON, TEXAS

DESCRIPTION:

Spillway area, Primary Emergency Spillway. Looking Upstream (North), Vegetation Cover.



рното ву:

GEI CONSULTANTS, INC.

PHOTOGRAPH NO: 22	DATE: March 18, 2024 5:12 PM	LATITUDE: 33.04954041	LONGITUDE: -94.8468791
DIRECTION: South	SITE LOCATION: CASON TEXAS		

DESCRIPTION:

Primary Pond.
Downstream Dike.
Looking South.
Vegetation Cover.



РНОТО ВҮ:

Appendix B – Piezometer Monitoring Results

