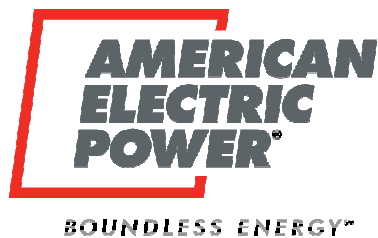


# APPALACHIAN POWER COMPANY

## KANAWHA RIVER PLANT SITE



## FUGITIVE DUST CONTROL PLAN

Prepared By:

**American Electric Power Service Corporation**  
**Environmental Services**  
1 Riverside Plaza, 17  
Columbus, OH 43215

**November 2024**  
**Initial Plan**

**November 2024**  
**Revision 0**

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## Professional Engineer's Certification

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*By means of this certification, I certify that I have reviewed this CCR Fugitive Dust Control Plan and it meets the requirements of section 40 CFR 257.80(b).*

David Anthony Miller

Printed Name of Registered Professional Engineer



*David Anthony Miller*

Signature

22663

West Virginia

11.01.2024

Registration No.

Registration State

Date

## 1.0 INTRODUCTION

The “Hazardous and Solid Waste Management System: Disposal of Coal Combustion Residuals From Electric Utilities; Legacy CCR Surface Impoundments”, 89 Fed. Reg. 38950 (May 8, 2024) (amending 40 C.F.R. §257) requires owners and operators of inactive electric generating facilities to prepare documentation on the applicability of the rule for each legacy CCR surface impoundment at the facility. This CCR Fugitive Dust Control Plan (Plan) has been prepared pursuant to the air criteria of 40 CFR part 257.80 (see Appendix A). The Plan has been prepared in accordance with good engineering practices to include measures that will effectively minimize CCR from becoming airborne at the site. The Plan and subsequent amendments will be placed in the operating record and placed on the site’s publicly accessible internet website titled “CCR Rule Compliance Data and Information.” The plan will be amended whenever there is a change in conditions that would substantially affect the written plan in effect, such as the construction and operation of a new CCR unit. The amendment must be made within 30 days of the change in conditions.

There are two Legacy CCR surface impoundments at the Kanawha River site subject to the Plan. The surface impoundments are the “Bottom Ash Pond Complex” and the “East Fly Ash Pond”. The Fugitive Dust Control Plan addresses these Legacy CCR surface impoundments and the associated paved and unpaved roadways.

## 2.0 SITE DESCRIPTION AND CONTACT INFORMATION

### 2.1 Site Information

#### Site Information

Name of Facility: Kanawha River Plant Site

Street: 1 AEP Way

City: Glasgow

State: WV

ZIP Code: 25086

County: Kanawha

Latitude: 38° 12' 24" N      Longitude: 81° 25' 25" W

### 2.2 Contact Information

#### Site Owner & Operator:

Name: Appalachian Power Company

Attention: Gary Spitznogle

Address: 1 Riverside Plaza, 17

City, State, Zip Code: Columbus, OH 43215

**Site Contact:**

Name: David Miller  
Address: 1 Riverside Plaza, 17  
City, State, Zip Code: Columbus, OH 43215  
Telephone number: 614-716-2281  
Email address: damiller@aep.com

**2.3 Activities at the Site**

Appalachian Power Company constructed the Kanawha River Plant in October 1950. The first coal-fired generating unit was put into service on July 17, 1953 and the second unit on December 31, 1953. Both units generated 200 MW of electricity. The plant operated until May 31, 2015.

The Plant utilized two surface impoundments for managing sluiced ash: the Bottom Ash Pond Complex and the East Fly Ash Pond. The East Fly Ash Pond was closed under the applicable state regulations, at the time, in 2017.

**2.4 Site Maps**

A topographic site plan for the site is included in Appendix B and shows the Legacy CCR surface impoundments and surrounding topography. An aerial view of the site and the associated Legacy CCR surface impoundments are included in Appendix C.

**3.0 FUGITIVE DUST CONTROL SELECTION**

**3.1 Paved and Unpaved Roadways**

There are currently no CCR hauling/transport activities at this site. If conditions change, the plan and applicable fugitive dust control measures will be amended.

**3.2 Bottom Ash Pond Complex**

**3.2.1 Overview**

The Bottom Ash Pond Complex is no longer receiving CCR material. The Bottom Ash Pond Complex received CCR ash from the Kanawha River Electric Generating Plant from 1953 through 2015. The Bottom Ash Pond Complex has not been closed and is currently open water.

### **3.2.2 Waste Unloading and Placement**

There are currently no CCR unloading or placement activities at this site. The plan and applicable fugitive dust control measures will be amended if conditions change.

### **3.2.3 Wind Erosion**

The Bottom Ash Pond Complex is currently open water. Bottom ash consists of a large particle size as compared to fly ash. Therefore, it is less susceptible to wind erosion. The fugitive dust control measure will be to periodically inspect the Bottom Ash Pond Complex for fugitive dust. If fugitive dust issues occur, control measures will be taken.

## **3.3 East Fly Ash Pond**

### **3.3.1 Overview**

The East Fly Ash Pond is no longer receiving CCR material. The East Fly Ash Pond was closed under the applicable state regulations, at the time, in 2017.

### **3.3.2 Waste Unloading and Placement**

There are currently no CCR unloading or placement activities at this site. The plan and applicable fugitive dust control measures will be amended if conditions change.

### **3.3.3 Wind Erosion**

The East Fly Ash Pond was closed in 2017 with a final cover (40 Mil LLDPE, 1-foot thick rip-rap, armor cap). Fugitive dust control measures will be to periodically inspect the cover. If the integrity is compromised, the cover will be repaired to prevent fugitive dust emissions.

## **4.0 PLAN ASSESSMENT**

The Plan will be periodically assessed to verify its effectiveness, and if necessary, amended in accordance with Section 7.0 below. The Bottom Ash Pond Complex and the East Fly Ash Pond are routinely evaluated to determine if the control measures described above are being implemented as necessary to minimize fugitive emissions. The Site Owner will include the control measure evaluations

during the annual assessment of the Plan and determine if additional or modified measures are warranted.

## **5.0 CITIZEN COMPLAINT LOG**

### ***5.1 Site Contacts***

Complaints made to the company will be received by the Site Owner.

### ***5.2 Follow-up***

All complaints will be entered into a log by the Site Owner with details noted such as the nature of the complaint, date, time, and other relevant details. All complaints will be investigated by the Site Owner: inspection of the dust source, checking site activities at the time of the event, reviewing inspection records, reviewing weather data, and/or contacting the person making the complaint to obtain additional information as required.

### ***5.3 Corrective Actions and Documentation***

Corrective actions will be taken as needed and documented. If it is determined that the Plan needs to be amended as a result of the investigation, it will be amended accordingly. If possible, the Site Owner will follow up with the complainant and/or West Virginia Department of Environmental Protection (WVDEP) to explain the findings of the complaint investigation and corrective actions. Citizen complaints will be recorded in the Annual Report.

## **6.0 ANNUAL REPORT**

The Annual CCR fugitive dust control report (Annual Report) will include the following components: a description of actions taken to control CCR fugitive dust; a record of all citizen complaints; and a summary of any corrective measures taken. The initial Annual Report will be completed no later than 14 months after placing the initial CCR fugitive dust control plan in the site's operating record. The deadline for completing subsequent reports is one year after the date of completing the previous report. The Annual Report will be deemed complete when the plan has been placed in the site's operating record as described in Section 8.0.

## **7.0 PLAN AMENDMENTS**

This Plan is a "living" document and will be amended, as necessary, whenever there is a change in condition that would substantially affect the written plan in effect. The Plan will be amended in the case of the construction and operation of a new CCR unit or the closure of an existing unit. The Plan must be amended within 30 days of the change in condition. Amendments made to the Plan will be



documented in Appendix D. The amended Plan will be placed into the site's operating record as described in Section 8.0.

## **8.0 RECORDKEEPING, NOTIFICATION, and INTERNET REQUIREMENTS**

### ***8.1 Recordkeeping***

The Plan, subsequent amendments of the plan (required by 257.80(b)), and documentation of all related information will be maintained in the operating record for 5 years after the site completes post-closure care or closure by removal (CBR) (40 C.F.R. §257.105(g)(1)) for the last CCR unit at the site. Files may be maintained on a computer or storage system accessible by a computer. The Plan (and any subsequent amendments of the plan) will be kept in the site's operating record as they become available. Only the most recent Plan must be maintained on the website. The Annual CCR Fugitive Dust Control Report will be placed in the site's operating record annually, based on the date of the previous report.

### ***8.2 Notification***

The West Virginia Department of Environmental Protection (WVDEP) will be notified within 30 days of when the Plan (or any subsequent amended Plan), or the Annual Report, is placed in the operating record and on the publicly available internet site. This notification will be made before the close of business on the day the notification is required to be completed. "Before the close of business day" means the notification must be postmarked or sent by e-mail by 5:00 PM. If the notification deadline falls on a weekend or federal holiday, the notification is automatically extended to the next business day.

### ***8.3 Internet Site Requirements***

The most recent Plan and Annual Report will be placed on the site's CCR website titled "CCR Rule Compliance Data and Information" within 30 days of placing them in the operating record.

Appendix A – 40 CFR Part 257.80 Air Criteria

## 40 CFR Part 257.80 Operating Criteria

### § 257.80 Air criteria.

(a) The owner or operator of a CCR unit must adopt measures that will effectively minimize CCR from becoming airborne at the site, including CCR fugitive dust originating from CCR units, roads, and other CCR management and material handling activities.

(b) ***CCR fugitive dust control plan.***

The owner or operator of the CCR unit must prepare and operate in accordance with a CCR fugitive dust control plan as specified in paragraphs (b)(1) through (7) of this section. This requirement applies in addition to, not in place of, any applicable standards under the Occupational Safety and Health Act.

(1) The CCR fugitive dust control plan must identify and describe the CCR fugitive dust control measures the owner or operator will use to minimize CCR from becoming airborne at the site. The owner or operator must select, and include in the CCR fugitive dust control plan, the CCR fugitive dust control measures that are most appropriate for site conditions, along with an explanation of how the measures selected are applicable and appropriate for site conditions. Examples of control measures that may be appropriate include: Locating CCR inside an enclosure or partial enclosure; operating a water spray or fogging system; reducing fall distances at material drop points; using wind barriers, compaction, or vegetative covers; establishing and enforcing reduced vehicle speed limits; paving and sweeping roads; covering trucks transporting CCR; reducing or halting operations during high wind events; or applying a daily cover.

(2) If the owner or operator operates a CCR landfill or any lateral expansion of a CCR landfill, the CCR fugitive dust control plan must include procedures to emplace CCR as conditioned CCR. Conditioned CCR means wetting CCR with water to a moisture content that will prevent wind dispersal, but will not result in free liquids. In lieu of water, CCR conditioning may be accomplished with an appropriate chemical dust suppression agent.

(3) The CCR fugitive dust control plan must include procedures to log citizen complaints received by the owner or operator involving CCR fugitive dust events at the site.

(4) The CCR fugitive dust control plan must include a description of the procedures the owner or operator will follow to periodically assess the effectiveness of the control plan.

(5) The owner or operator of a CCR unit must prepare an initial CCR fugitive dust control plan for the site no later than October 19, 2015, or by initial receipt of CCR in any CCR unit at the site if the owner or operator becomes subject to this

subpart after October 19, 2015. The owner or operator has completed the initial CCR fugitive dust control plan when the plan has been placed in the site's operating record as required by § 257.105(g)(1).

(6) *Amendment of the plan.* The owner or operator subject to the requirements of this section may amend the written CCR fugitive dust control plan at any time provided the revised plan is placed in the site's operating record as required by § 257.105(g)(1). The owner or operator must amend the written plan no later than 30 days whenever there is a change in conditions that would substantially affect the written plan in effect, such as the construction and operation of a new CCR unit.

(7) The owner or operator must obtain a certification from a qualified professional engineer that the initial CCR fugitive dust control plan, or any subsequent amendment of it, meets the requirements of this section.

**(c) *Annual CCR fugitive dust control report.***

The owner or operator of a CCR unit must prepare an annual CCR fugitive dust control report that includes a description of the actions taken by the owner or operator to control CCR fugitive dust, a record of all citizen complaints, and a summary of any corrective measures taken. The initial annual report must be completed no later than 14 months after placing the initial CCR fugitive dust control plan in the site's operating record. The deadline for completing a subsequent report is one year after the date of completing the previous report. For purposes of this paragraph (c), the owner or operator has completed the annual CCR fugitive dust control report when the plan has been placed in the site's operating record as required by § 257.105(g)(2).

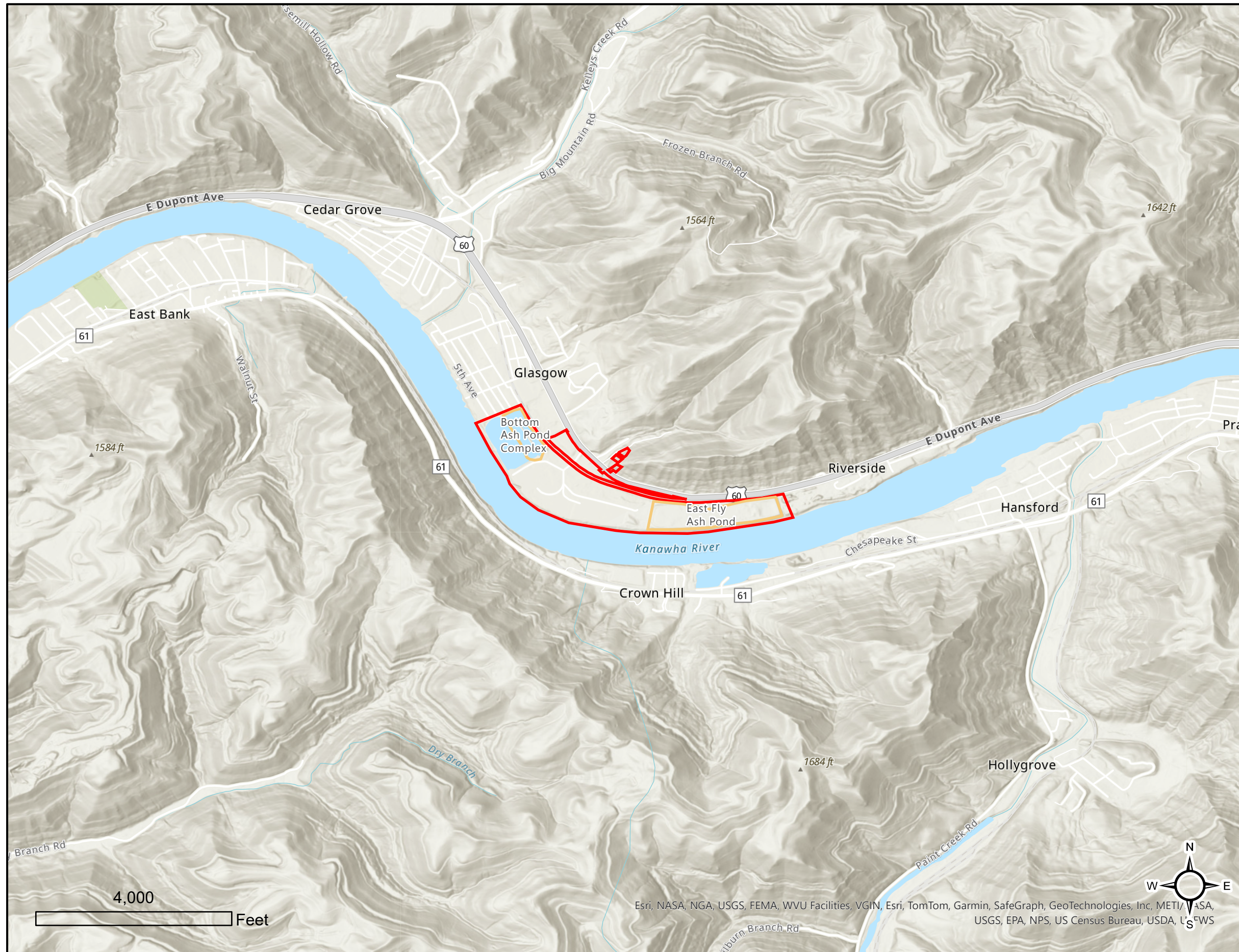
(d) The owner or operator of the CCR unit must comply with the recordkeeping requirements specified in § 257.105(g), the notification requirements specified in § 257.106(g), and the internet requirements specified in § 257.107(g).

## Appendix B – Topographic Site Location Map



Figure 1

**Kanawha River Site  
CCR Units**

Appalachian Power Company  
Kanawha River Site  
Glasgow, WV



**Legend**

-  Legacy Impoundment
-  AEP Outer Boundary

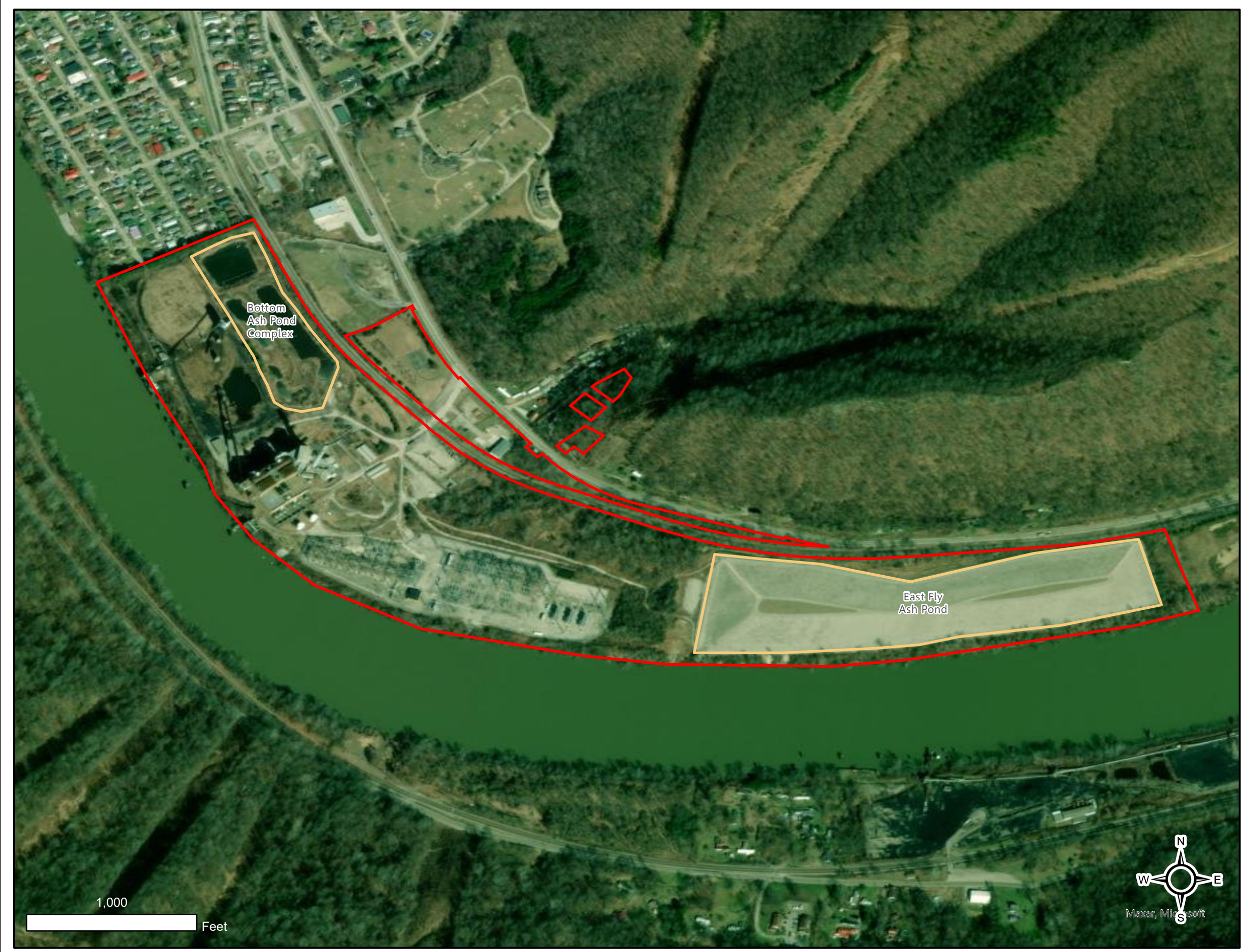


## Appendix C – Site Aerial View



Figure 2

**Kanawha River Site  
CCR Units**

Appalachian Power Company  
Kanawha River Site  
Glasgow, WV



**Legend**

-  Legacy Impoundment
-  AEP Outer Boundary



1,000  
Feet





## Appendix D – Plan Modification Documentation

