EXHIBIT 12

Part 2 of 4

Mine Map

Figure 3 Sheet 01

Legend

- Proposed Structure
- Substation
- Proposed Transmission Line
- Existing Prestonsburg - Thelma 46kV Line
- New Access Road
- Existing Road (to be improved)
- Existing Road (no improvement)
- Road
- Coal Bed
- Concealed Coal Bed
- Mined Out Areas

REFERENCES:
- Centerline data sent by AEP Siting via e-mail on August 3, 2021; Structures preliminary spotted by DiGioia Gray.
- Access roads and associated features preliminary spotted by DiGioia Gray, September 2021.
- Mine Out Areas, DNR KOMSL, Kentucky Geography Network Geoportal website, download August 2021, <https://kygeoportal.ky.gov/geoportal/catalog/main/home.page>
- Aerial Basemap - Ky_KYAPED_2019_Imagery_6inch Image Service
- Coordinate System: NAD 1983 2011 StatePlane Kentucky South FIPS 1602 Ft US

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Prestonsburg - Thelma 46kV Rebuild
Geohazard Risk Assessment

PROJECT NO.	2021-147
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DATE	9/22/2021

| NO. | DATE | REVISION |

Labels visible on map: 036 US-23-10 NC, 036 US-23, AR-4-1, Existing Prestonsburg - Thelma 46kV Line, KY-1427, AR-4-2, 4, AR-5, 5, 6, AR-6, 3, AR-3, Proposed Kenwood - Prestonsburg 46kV Line, po, fc, w, 2, wm, 3, Stephens Branch Road / Cliff Road, AR-6-1, Main Street, KY-2555, AR-2, 1, Prestonsburg Station, AR-1, Webber Lane, KY-114, KY-114 NC, KY-1428, KY-321, Name: 2021-147_AEP_Prestonsburg-Thelma46kV

Figure 3 Sheet 02 — Mine Map

Legend

- ☐ Proposed Structure
- ▪▪▪▪ Proposed Transmission Line
- ▪ ▪ ▪ Existing Prestonsburg - Thelma 46kV Line
- —— New Access Road
- —— Existing Road (to be improved)
- —— Existing Road (no improvement)
- —— Road
- —— Coal Bed
- – – Concealed Coal Bed

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Mine Map

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Figure 3 Sheet 03

NO.	DATE	REVISION

Labels on map: AR-10(B), AR-10(A), AR-12-1, AR-12-2, AR-11, AR-14, AR-13, 10, 11, 12, 13, Proposed Kenwood - Prestonsburg 46kV Line, Stephens Branch Road / Cliff Road, Existing Prestonsburg - Thelma 46kV Line, KY-321, po, b, w, wm, fc, 3, 2

Scale: 0 250 500 1,000 Feet

Name: 2021-147_AEP_PrestonsburgThelma46kV

036 US-23-10 NC
036 US-23
KY-1100

KY-3 Y

3

vm

Heritage Hill

AR-15.2

AR-15.1

AR-17

Proposed Kenwood - Prestonsburg 46kV Line

15

16

AR-14

po

b

KY-3

w

Proposed Kenwood - Prestonsburg 46kV Line

14

13

AR-13

17

hz

AR-18

KY-3051

Proposed Kenwood - Prestonsburg 46kV Line

0   250   500   1,000
Feet

Legend

- ▣ Proposed Structure
- ┄┄ Proposed Transmission Line
- ── New Access Road
- ── Existing Road (to be improved)
- ── Existing Road (no improvement)

- ── Road
- ── Coal Bed
- --- Concealed Coal Bed
- ▨ Mined Out Areas

REFERENCES:
- Centerline data sent by AEP Siting via e-mail on August 3, 2021;
Structures preliminary spotted by DiGioia Gray.
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Mine Map

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Figure 3 Sheet 04

NO.	DATE	REVISION

Name: 2021-147_AEP_PrestonsburgThelma46kV

Proposed Kenwood - Prestonsburg 46kV Line

14

17

AR-17

hz

18

AR-18

Proposed Kenwood - Prestonsburg 46kV Line

AR-19

19

AR-20

20

Gr-1474W

AR-13

KY-3051

KY-321 Y

KY-321 Y

KY-3

po

wm

w

3

fcr

KY-321

fc

2

hx

0 250 500 1,000
Feet

Legend

- ☐ Proposed Structure
- ▬ ▬ Proposed Transmission Line
- ▬ New Access Road
- ▬ Existing Road (no improvement)

- ▬ Road
- ▬ Coal Bed
- ▬ ▬ Concealed Coal Bed
- ▨ Mined Out Areas

REFERENCES:
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Figure 3 Sheet 05

| NO. | DATE | REVISION |

Legend

- ▣ Proposed Structure
- ▪▪▪ Proposed Transmission Line
- —— New Access Road
- —— Existing Road (to be improved)
- —— Existing Road (no improvement)
- —— Road
- —— Coal Bed
- --- Concealed Coal Bed
- --- Secondary Coal Bed
- ▨ Mined Out Areas

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Mine Map

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Figure 3 Sheet 06

NO.	DATE	REVISION

Kenwood Station

26
AR-27
27

Proposed Kenwood - Prestonsburg 46kV Line

wm

KY-321

25
AR-25
28
AR-28
odn
29
AR-29
AR-30
30
AR-24
31
AR-31
AR-32.2
AR-32.1
32
AR-33

Proposed Thelma - Kenwood 46kV Line

24
KY-2381
hx
lb

0   250   500   1,000
Feet

Legend

□ Proposed Structure
■ Substation
▪▪▪ Proposed Transmission Line
— New Access Road
— Existing Road (to be improved)
— Road
— Coal Bed
-- Concealed Coal Bed
-- Secondary Coal Bed

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Figure 3 Sheet 07		
NO.	DATE	REVISION

Name: 2021-147_AEP_PrestonsburgThelma46kV

KY-321

AR-32.1

36

35

AR-34

34

33

AR-33

32

AR-31

31

AR-32.2

AR-24

Proposed Thelma - Kenwood 46kV Line

Existing Prestonsburg - Thelma 46kV Line

lb

upo

wm

vl

KY-402

fc

hz

hx

0 250 500 1,000
Feet

Legend

- ▣ Proposed Structure
- ∙∙∙ Proposed Transmission Line
- ▬ ▬ Existing Prestonsburg - Thelma 46kV Line
- ▬ New Access Road
- ▬ Existing Road (to be improved)
- ▬ Road
- ▬ Coal Bed
- ▬ ▬ Secondary Coal Bed
- ▨ Mined Out Areas

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Mine Map

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Figure 3 Sheet 08

NO.	DATE	REVISION

Legend

- ☐ Proposed Structure
- ▪▪▪▪ Proposed Transmission Line
- ▪▪▪ Existing Prestonsburg - Thelma 46kV Line
- —— New Access Road
- —— Existing Road (to be improved)
- —— Existing Road (no improvement)

- —— Road
- —— Coal Bed
- – – – Concealed Coal Bed
- – – – Secondary Coal Bed
- ■ Mined Out Areas

REFERENCES:
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Mine Map

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Figure 3 Sheet 09

NO.	DATE	REVISION

Legend

- ■ Proposed Structure
- ▪▪▪ Proposed Transmission Line
- — New Access Road
- — Existing Road (to be improved)
- — Existing Road (no improvement)

- — Road
- — Coal Bed
- – – Concealed Coal Bed
- – – Secondary Coal Bed
- ▨ Mined Out Areas

0 250 500 1,000
Feet

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Geohazard Risk Assessment

Figure 3 Sheet 10

Mine Map

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NO.	DATE	REVISION

Name: 2021-147_AEP_PrestonsburgThelma46kV

Legend

- ◻ Proposed Structure
- ▪▪▪ Proposed Transmission Line
- — New Access Road
- — Existing Road (to be improved)
- — Existing Road (no improvement)
- — Road
- — Coal Bed
- — Clinker Bed
- --- Secondary Coal Bed
- ▨ Mined Out Areas

Proposed Thelma - Kenwood 46kV Line

AR-47.2
AR-47.1
AR-46
AR-45.2
AR-45.1
AR-44.3
AR-44.2
AR-44.1

43 44 45 46

lb
vl
wm
upo
hx
t
b
r
2

Lively Lane

0 250 500 1,000 Feet

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Figure 3 Sheet 11

NO.	DATE	REVISION

Name: 2021-147_AEP_PrestonsburgThelma46kV

49
50 Thelma Station
AR-49
AR-50

Buskirk Drive
AR-48(B)
AR-48.2(A)
48
Proposed Thelma - Kenwood 46KV Line
AR-47.3
fc
wm
vl
AR-46
47
AR-47.2
upo
AR-45.2
46
lb
AR-47.1
45
AR-45.1
44

KY-1145
KY-1107

0   250   500   1,000
Feet

Legend

Proposed Structure
Substation
Proposed Transmission Line
Existing Prestonsburg - Thelma 46kV Line
New Access Road
Existing Road (to be improved)

Existing Road (no improvement)
Road
Coal Bed
Clinker Bed
Secondary Coal Bed
Mined Out Areas

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Mine Map

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Figure 3 Sheet 12

NO.   DATE   REVISION

Landslide Map

Legend

Symbol	Description
□	Proposed Structure
■	Substation
┄┄ (cyan)	Proposed Transmission Line
┅┅ (black dashed)	Existing Prestonsburg - Thelma 46kV Line
─── (red)	New Access Road
─── (yellow)	Existing Road (to be improved)
─── (green)	Existing Road (no improvement)
─── (black)	Road
(light blue)	Water
→	Areas susceptible to debris flows
◇ (yellow)	DiGioia Gray Documented Slip
● (red)	KGS landslide inventory data

KGS landslide inventory data

1:24,000 geologic map landslides
Derived from LiDAR
Derived from aerial photos

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Figure 4 Sheet 01

NO.	DATE	REVISION

Landslide Map

Legend

- ◻ Proposed Structure
- ▬ ▬ Proposed Transmission Line
- ▬ ▬ Existing Prestonsburg - Thelma 46kV Line
- ▬ New Access Road
- ▬ Existing Road (to be improved)
- ▬ Existing Road (no improvement)
- ▬ Road
- ▬ Water

KGS landslide inventory data
- ● KGS landslide inventory data

- ▬ 1:24,000 geologic map landslides
- ▬ Derived from LiDAR
- ▬ Derived from aerial photos
- → Areas susceptible to debris flows

REFERENCES:
- Centerline data sent by AEP Siting via e-mail on August 3, 2021; Structures preliminary spotted by DiGioia Gray.
- Access roads and associated features preliminary spotted by DiGioia Gray, September 2021.
- Landslides - LandslideInformationMap Map Service
- Hillshade Basemap - Ky_DEM_KYAPED_5FT_Phase2_MultiDirectionalHillshadeImage Service
- Coordinate System: NAD 1983 2011 StatePlane Kentucky South FIPS 1602 Ft US

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Figure 4 Sheet 02		
NO.	DATE	REVISION

Labels on map: 6, 7, 8, AR-6, AR-7, AR-8.2, AR-8.1, AR-9, 9, AR-10(A), AR-10(B), 10, 11, AR-11, Proposed Kenwood - Prestonsburg 46kV Line, 12, AR-12.1, AR-12.2, Existing Prestonsburg - Thelma 46kV Line, Stephens Branch Road / Cliff Road, KY-321

Scale: 0 250 500 1,000 Feet

Name: 2021-147_AEP_PrestonsburgThelma46KV

Legend

- ☐ Proposed Structure
- ┅ Proposed Transmission Line
- ┅ Existing Prestonsburg - Thelma 46kV Line
- — New Access Road
- — Existing Road (to be improved)
- — Existing Road (no improvement)
- — Road
- Water

KGS landslide inventory data
- ● KGS landslide inventory data

- 1:24,000 geologic map landslides
- Derived from LiDAR
- Derived from aerial photos
- → Areas susceptible to debris flows

REFERENCES:
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Landslide Map

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Figure 4 Sheet 03

NO.	DATE	REVISION

Name: 2021-147_AEP_PrestonsburgThelma46kV

Legend

- ☐ Proposed Structure
- ┄┄ Proposed Transmission Line
- —— New Access Road
- —— Existing Road (to be improved)
- —— Existing Road (no improvement)
- —— Road
- Water
- Derived from LiDAR
- Derived from aerial photos
- → Areas susceptible to debris flows

KGS landslide inventory data
- ● KGS landslide inventory data
- 1:24,000 geologic map landslides

0 250 500 1,000 Feet

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Landslide Map

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Figure 4 Sheet 04

| NO. | DATE | REVISION |

Name: 2021-147_AEP_PrestonsburgThelma46kV

Proposed Kenwood - Prestonsburg 46kV Line

14

AR-17

17

AR-18

Proposed Kenwood - Prestonsburg 46kV Line

KY-3051

AR-13

KY-321 Y

KY-321 Y

KY-3

18

AR-19

Gr147AW

19

KY-321

AR-20

20

0   250   500   1,000
Feet

Legend

☐	Proposed Structure	—— Road	🟥 1:24,000 geologic map landslides
▪▪▪	Proposed Transmission Line	🟦 Water	🟪 Derived from LiDAR
——	New Access Road	KGS landslide inventory data	🟧 Derived from aerial photos
——	Existing Road (no improvement)	● KGS landslide inventory data	→ Areas susceptible to debris flows

REFERENCES:
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Landslide Map

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Figure 4 Sheet 05		
NO.	DATE	REVISION

Legend

- ⬚ Proposed Structure
- ▪▪▪ Proposed Transmission Line
- — New Access Road
- — Existing Road (to be improved)
- — Existing Road (no improvement)
- — Road
- ▬ Water
- ● KGS landslide inventory data
- ● KGS landslide inventory data
- ▬ 1:24,000 geologic map landslides
- ⬛ Derived from LiDAR
- ⬛ Derived from aerial photos
- → Areas susceptible to debris flows

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Landslide Map

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Figure 4 Sheet 06

NO.	DATE	REVISION

Landslide Map

Figure 4 Sheet 07

Prestonsburg - Thelma 46kV Rebuild
Geohazard Risk Assessment

Legend

- ▪ Proposed Structure
- ▪ Substation
- ---- Proposed Transmission Line
- —— New Access Road
- —— Existing Road (to be improved)
- —— Road
- Water
- KGS landslide inventory data
- ● KGS landslide inventory data
- ■ 1:24,000 geologic map landslides
- ■ Derived from LiDAR
- ■ Derived from aerial photos
- → Areas susceptible to debris flows

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- Hillshade Basemap -
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Name: 2021-147_AEP_PrestonsburgThelma46kV

KY-321

AR-32-1

33

32   AR-33

AR-31

31   AR-32.2

AR-24

Proposed Thelma – Kenwood 46kV Line

36

35   AR-35

34   AR-34

N

Existing Prestonsburg – Thelma 46kV Line

KY-302

0   250   500   1,000
Feet

Legend

☐ Proposed Structure

- - - Proposed Transmission Line

■ ■ ■ Existing Prestonsburg - Thelma 46kV Line

— New Access Road

— Existing Road (to be improved)

— Road

Water

KGS landslide inventory data

● KGS landslide inventory data

■ 1:24,000 geologic map landslides

■ Derived from LiDAR

■ Derived from aerial photos

→ Areas susceptible to debris flows

REFERENCES:
- Centerline data sent by AEP Siting via e-mail on August 3, 2021;
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Landslide Map

Figure 4 Sheet 09

Prestonsburg - Thelma 46kV Rebuild
Geohazard Risk Assessment

Legend

- ☐ Proposed Structure
- ▬ ▬ Proposed Transmission Line
- ▬ ▬ Existing Prestonsburg - Thelma 46kV Line
- ▬▬ New Access Road
- ▬▬ Existing Road (to be improved)
- ▬▬ Existing Road (no improvement)
- ▬▬ Road
- Water
- KGS landslide inventory data
- • KGS landslide inventory data
- ■ 1:24,000 geologic map landslides
- ■ Derived from LiDAR
- ■ Derived from aerial photos
- ↑ Areas susceptible to debris flows

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Figure 4 Sheet 10

Landslide Map

Legend

- ◻ Proposed Structure
- ⋯ Proposed Transmission Line
- — New Access Road
- — Existing Road (to be improved)
- — Existing Road (no improvement)
- — Road
- Water
- KGS landslide inventory data
  - ● KGS landslide inventory data
  - 1:24,000 geologic map landslides
- Derived from LiDAR
- Derived from aerial photos
- → Areas susceptible to debris flows

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Prestonsburg - Thelma 46kV Rebuild
Geohazard Risk Assessment

PROJECT NO.	2021-147
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Landslide Map

Legend

- ☐ Proposed Structure
- ┅┅┅ Proposed Transmission Line
- —— New Access Road
- —— Existing Road (to be improved)
- —— Existing Road (no improvement)

- —— Road
- Water
- ● KGS landslide inventory data
- KGS landslide inventory data

- ■ Derived from LiDAR
- ■ Derived from aerial photos
- → Areas susceptible to debris flows

- ■ Derived from LiDAR
- ■ Derived from aerial photos
- ■ 1:24,000 geologic map landslides

REFERENCES:
- Centerline data sent by AEP Siting via e-mail on August 3, 2021; Structures preliminary spotted by DiGioia Gray.
- Access roads and associated features preliminary spotted by DiGioia Gray, September 2021.
- Landslides - LandslideInformationMap Map Service
- Hillshade Basemap - Ky_DEM_KYAPED_5FT_Phase2_MultiDirectionalHillshadeImage Service
- Coordinate System: NAD 1983 2011 StatePlane Kentucky South FIPS 1602 Ft US

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Figure 4 Sheet 11

NO.	DATE	REVISION

Name: 2021-147_AEP_PrestonsburgThelma46KV

Legend

- ☐ Proposed Structure
- ▨ Substation
- ┄┄ Proposed Transmission Line
- ▪▪▪ Existing Prestonsburg - Thelma 46kV Line
- ━━ New Access Road
- ━━ Existing Road (to be improved)

- ━━ Existing Road (no improvement)
- ━━ Road
- ▨ Water
- → Areas susceptible to debris flows

- ▨ Derived from LiDAR
- ▨ Derived from aerial photos

KGS landslide inventory data
- ● KGS landslide inventory data
- ▨ 1:24,000 geologic map landslides

REFERENCES:
- Centerline data sent by AEP Siting via e-mail on August 3, 2021; Structures preliminary spotted by DiGioia Gray.
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Geohazard Risk Assessment

Landslide Map

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	Figure 4 Sheet 12	

NO.	DATE	REVISION

Map labels: Thelma Station, Bucklick Drive, Proposed Thelma - Kenwood 46kV Line, KY-1145, KY-1107, AR-49, AR-50, AR-48(B), AR-48-2(A), AR-47-3, AR-46, AR-47-2, AR-47-1, AR-45-2, AR-45-1

Scale: 0 250 500 1,000 Feet