

Attachment A to the NPDES Permit Modification Application

Callaway Energy Center NPDES PERMIT MODIFICATION

Attachment A Description of Stormwater Pond closure

The storm water detention pond closure project is currently under construction at the Callaway Energy Center under Construction Permit #MO-RA19240. Three separate storm water ponds, as shown below, associated with the current NPDES permit are being decommissioned. These three ponds were originally placed in service during plant construction in the 1980's to control stormwater runoff from various construction areas around the plant site. To reduce maintenance issues with the pond dams, a decision was made to decommission the stormwater ponds. Multiple sample studies were first completed on each pond discharge to prove that the proposed new discharge locations after closure will have no effect on the final effluent limitations. A detailed hydrologic evaluation was also completed on each pond drainage basin area, in order to restore each stormwater basin to its original pre pond alignment. As part of the closure project, each stormwater pond discharge location will be slightly re-located in order to accommodate the pre-pond alignment.

Callaway Energy Center's final effluent limitations on each of the three storm water ponds are currently set as benchmarks, with sampling occurring once per quarter. After sample studies were concluded in early 2021 we expect a reduction in monitoring results at the newly proposed discharge locations versus the monitoring results at the current discharge locations. Because of these findings Callaway believes no changes need to be made to the sampling schedule or benchmark limitations.

Outfall 012 modification

As the current Callaway NPDES Permit states, Outfall 012 is storm water discharge from approximately 87 acres (22 acres impervious), draining areas around the majority of the southern portion of the plant proper. This also includes Outfall 013 that was eliminated in the 2010 NPDES permit. As you can see from Drawing

1, the red arrow at Outfall 012 is the proposed new sample and discharge point and the black arrow is the current sample and discharge point.

Proposed new facility description

Outfall 012: Stormwater

UTM Coordinates: X = 605852; Y=4290489

Legal Description: NE ¼, SE ¼, Sec. 14, T46N, R8W, Callaway Co.

Receiving Stream: classified tributary to Logan Creek

Receiving & First classified Stream & ID: 100K Extent remaining stream (C) WBID #3960

USGS Basin & Sub-watershed No.: Deer Creek – Missouri River (10300102-1606)

Application Design & Storm Flow: 6.6 MGD; daily flow is dependent on precipitation

Outfall 014 modification

As the current Callaway NPDES Permit states, Outfall 014 is storm water discharge from approximately 100 acres (4 acres impervious), draining areas around the Northwest portion of the plant proper. As you can see from Drawing 1, the red arrow at Outfall 014 is the proposed new sample and discharge point and the black arrow is the current sample and discharge point.

Proposed new facility description

Outfall 014: Stormwater

UTM Coordinates: X = 605639; Y=4291849

Legal Description: NW ¼, SE ¼, Sec. 11, T46N, R8W, Callaway Co.

Receiving Stream: tributary to 100K Extent remaining stream

Receiving & First classified Stream & ID: 100K Extent remaining stream (C) WBID #3960

USGS Basin & Sub-watershed No.: Cow Creek (10300103-1504)

Application Design & Storm Flow: 4.8 MGD; daily flow is dependent on precipitation

Outfall 015 modification

As the current Callaway NPDES Permit states, Outfall 015 is storm water discharge from approximately 60 acres (0.6 acres impervious), draining areas around the north and northeast portion of the plant site. As you can see from Drawing 1, the red arrow at Outfall 015 is the proposed new sample and discharge point and the black arrow is the current sample and discharge point.

Proposed new facility description

Outfall 015: Stormwater

UTM Coordinates: X = 605939; Y=4292059

Legal Description: NE ¼, SE ¼, Sec. 11, T46N, R8W, Callaway Co.

Receiving Stream: classified tributary to Canyon Lake (L3)

Receiving & First classified Stream & ID: 100K Extent remaining stream (C) WBID #3960
USGS Basin & Sub-watershed No.: Cow Creek (10300103-1504)
Application Design & Storm Flow: 2.8 MGD; daily flow is dependent on precipitation