



ENVIRONMENTAL DOCUMENT TYPE:

KIF NPDES Permit Compliance

Records (Red water seep inspection report)

Tennessee Valley Authority, 714 Swan Pond Road, Harriman, Tennessee 37748

January 11, 2008

Ms. Natalie Harris
Environmental Field Office – Knoxville
TDEC - Division of Water Pollution Control
3711 Middlebrook Pike
Knoxville, TN 37921

Dear Ms. Harris:

TENNESSEE VALLEY AUTHORITY (TVA) – KINGSTON FOSSIL PLANT – NPDES
PERMIT NO. TN0005452 – RED WATER SEEP INSPECTION ANNUAL REPORT

As required by the referenced permit, enclosed is the annual red water seep inspection report for 2007.

If you have any questions concerning this report, please contact Cynthia McCowan at (865) 717-2180 in Kingston, Tennessee.

Sincerely,

Michael T. Beckham
Plant Manager
Kingston Fossil Plant

MTB:cwm

Enclosure

**KINGSTON FOSSIL PLANT
NPDES PERMIT NO. TN0005452
ANNUAL RED WATER SEEP INSPECTION REPORT
2007**

Below is a summary of the quarterly Red Water Seep Inspections made on 03/07, 05/10, 09/18 and 12/12, 2007.

RWS - # 1 - Area along Swan Pond Road beside dredge cells:

The dredge cell dikes have been re-worked. Seeps have developed in this ditch starting 500 yards from the intersection of the Plant Road and Swan Pond Road. The seeps span approximately 100 yards. All four inspections noted flow most of the time with no sheen in the ditch on the west side of Swan Pond Road. Vegetation is heavy in this ditch.

RWS - # 2 - Area along Emory River behind dredge cell 2 and the north dike of the active ash pond and stilling ponds:

1st and 4th quarter inspections showed the following: the spring at the extreme west end of the slough has flow about 3 to 5 gpm with heavy staining. Approximately 100-150 yards east of the spring there is a seep approximately 50 feet wide with little staining. From the old fly ash culvert heading north, there are seeps at 100 and 300 yards with little staining. From the old fly ash culvert heading south to the end of the eastern most island, there are signs of seepage along the shoreline at or below summer pool level. The roadway along the lower tier, including both sides of the old fly ash culvert, showed standing water with a slight sheen during the 1st quarter inspection, but no sheen for the remaining three quarters. The 1st quarter two former seeps west of the skimmer wall (one about 200 yards; the other at about 300 yards) had stopped flowing. The 4th quarter inspection showed these two seeps with minimum flow.

RWS - # 3 - Area along the west bank of the intake channel:

For all four quarters: The area in the corner at the junction of the active pond dike and wetland (approximately 200 feet wide) has seepage and staining. There is drainage (2-3 gpm) between the upper and lower roads, approximately 100 yards south of the red water ponds. This water runs into a ditch on the west side of the lower road and empties into the red water ponds. South of the southern tip of the red water ponds are seeps at approximately 75 yards out; another approximately 50 yards farther, and another approximately 50 yards farther still. These seeps have anywhere from one to two gallons flow per minute and heavy staining. There is some damage to the vegetation and the ground around these seeps is soft.

The seep in the corner nearest the trash boom has very little flow.

RWS - # 4 - Drainage Ditch emptying into channel near Unit 9 Condenser Intake:

This area known as the "ash hole" has a flow of approximately 20 to 30 gallons per minute (gpm). Staining is very evident. The ditch along road has been cleaned out for better drainage. Vegetation consists of grass, weeds, and cattails.

RWS - # 5 - Area extending southerly from intersection of Plant Road & Swan Pond Road:

Water flowing in the drainage ditch is clear with no precipitates.

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See 18 U.S.C. Section 1001 and 33 U.S.C. Section 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)



Plant Manager

Date

1-11-08

SIGNATURE OF PRINCIPAL/EXECUTIVE OFFICER OR AGENT