

Spurlock Station Landfill Phase 3-B Cell Construction

CCR Rule – Post-Construction Run-on & Run-off Controls Certification



EAST KENTUCKY POWER COOPERATIVE

COAL COMBUSTION RESIDUAL RULE COMPLIANCE

REV. 0 (10/23/2018)

CERTIFICATION

EAST KENTUCKY POWER COOPERATIVE SPURLOCK STATION LANDFILL – PHASE 3-B CELL CONSTRUCTION CCR RULE – RUN-ON AND RUN-OFF CONTROLS CERTIFICATION

CERTIFICATION

I hereby certify, as a Professional Engineer in the Commonwealth of Kentucky, that the constructed Phase 3-B CCR waste cell at East Kentucky Power Cooperative's Spurlock Station Landfill has been constructed to meet the project plans and specifications and subsequently the requirements of 40 CFR 257.81 (Run-on and run-off controls for CCR landfills.) The information in this document was assembled under my direct supervisory control. This report is not intended or represented to be suitable for reuse by East Kentucky Power Cooperative or others without specific verification or adaptation by the Engineer.

S. Tim Oakes, P.E. [21,483] - Kenvirons, Inc.

Date: 10/23/18

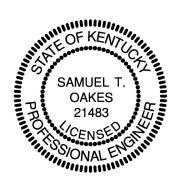


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1.0 Introduction

On April 17, 2015, the Environmental Protection Agency (EPA) issued the final version of the federal Coal Combustion Residual Rule (CCR Rule) to regulate the disposal of coal combustion residual (CCR) materials generated at coal-fired units. The rule will be administered as part of the Resource Conservation and Recovery Act [RCRA, 42 United States Code (U.S.C.) §6901 et seq.], under Subtitle D.

East Kentucky Power Cooperative (EKPC) is subject to the CCR Rule and as such will demonstrate compliance with 40 Code of Federal Regulations (CFR) §257.81. This document serves as EKPC's verification that Phase 3-B lateral expansion was constructed in accordance with the run-on and run-off controls criteria as set forth by 40 CFR 257.81. The Phase 3-B lateral cell expansion was designed by AECOM and the CQA for cell construction was certified by Kenvirons, Inc. A Record drawing displaying the surface water controls related to Phase 3-B waste cell can be found in Appendix 1.

TABLE 1-1 Run-on and Run-off Controls Certification Summary

CONSTRUCTION CRITERIA					
Unit: Phase 3-B Cell Construction					
DESCRIPTION	CCR RULE COMPLIANCE				
DESCRIPTION	YES	NO	REPORT REFERENCE		
Run-On Controls			See Section 2.0		
Run-Off Controls	\boxtimes		See Section 3.0		

2.0 Run-on Controls

Storm water diversion structures were constructed as part of Phase 3-B cell project to divert run-on from intercepting the active cell area. A combination of geomembrane lined ditches and berms parallel the waste limits of Phase 3-B to divert storm water to an existing sediment basin (Pond 1) to the southeast. Diversion controls that aide in minimizing stormwater generation within the Phase 3-B cell limits include intermediate geosynthetic rain gutters. Stormwater run-off is effectively diverted through the installed rain gutters to flow excess stormwater out of the cell and into the perimeter ditches prior to contact with CCR wastes that will be placed below the gutters. The gutters aide in minimizing leachate generation and help control CCR sediment migration. All lined ditches and berms were constructed to meet the project plans and specifications which are based on water flows generated by a minimum 25-year/24-hour storm event.

3.0 Run-off Controls

The constructed geomembrane lined perimeter ditches and berms will convey stormwater run-off to an existing sediment basin (Pond 1) to the southeast. All lined ditches and berms were constructed to meet the project plans and specifications which are based on water flows generated by a minimum 25-year/24-hour storm event.

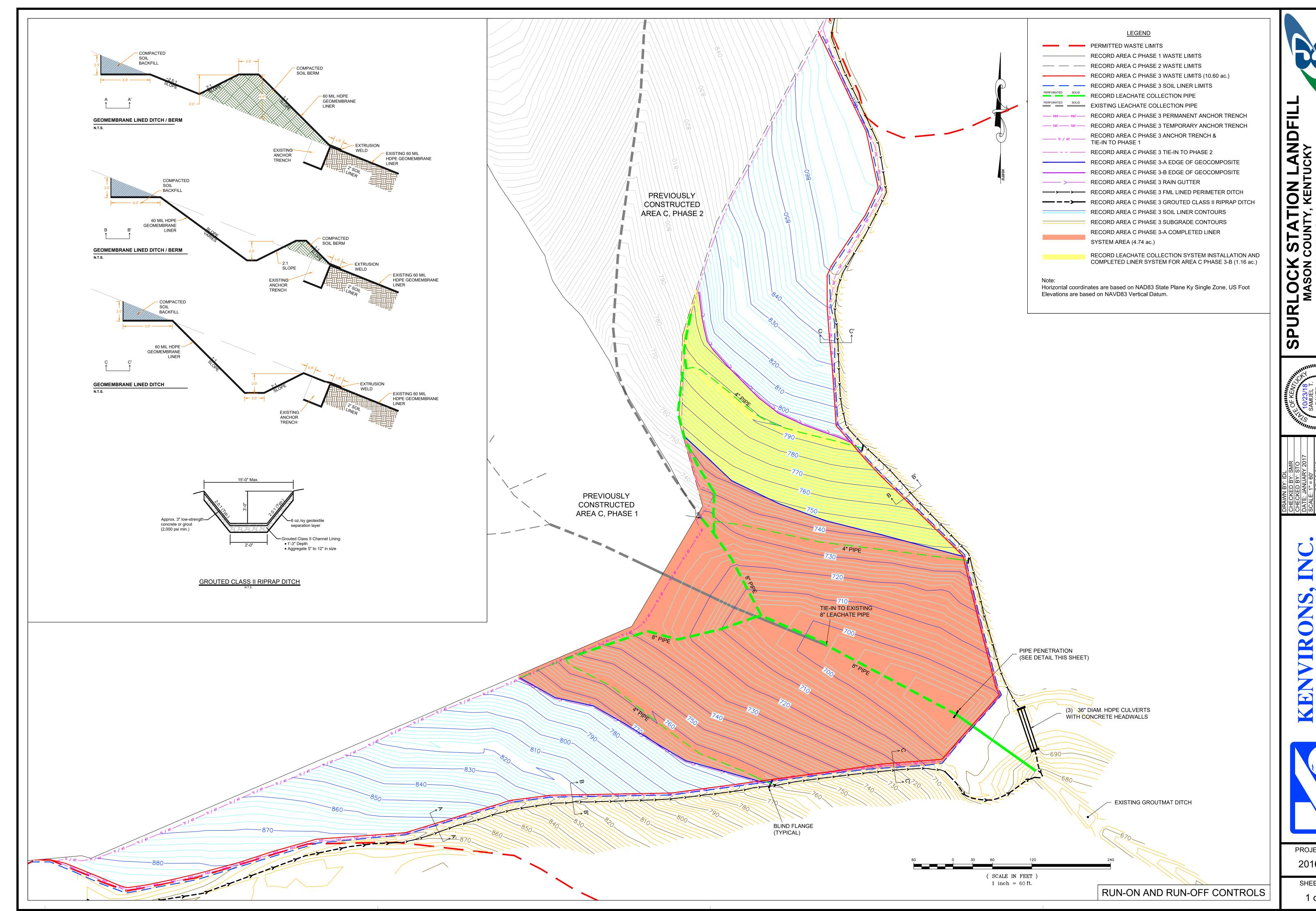
4.0 REPORT LIMITATIONS

This report is based on data collected and observations made during construction that could be visually seen. Review of design documents and survey information provided by EKPC as well as CQA work performed by Kenvirons based on AECOM's design of Phase 3-B lateral expansion. This run-on and run-off controls certification is based on Kenvirons' understanding of AECOM's design plans for the Phase 3-B lateral expansion and EKPC's plant operations, maintenance, storm water and CCR handling procedures for the newly constructed lateral expansion. Changes in any of these operations or procedures may result in deviation from the intended design and operation of Phase 3-B storm water controls.

The run-on and run-off controls certification is based on established engineering principles and provided in a manner consistent with the level of care and skill ordinarily exercised by the engineering consultants under similar circumstances. No other representation is intended.

ATTACHMENT 2

RECORD DRAWING





PROJECT NO. 2016090

SHEET NO.

1 of 1