



Run-on Run-off Control System Plan

Blue Pit Facility

Coyote Station

Introduction

This plan presents the Run-on Run-off Control System Plan for the Blue Pit Facility (landfill) at Coyote Station in Beulah, North Dakota. The landfill is an existing coal combustion residual (CCR) landfill. This document addresses the requirements of 40 CFR §257.81.

Run-on and Run-off Control System Plan § 257.81(c)(1)

The landfill is located in a region that has a type II rainfall distribution. According to the National Oceanic and Atmospheric Administration, a 24-hour, 25-year storm event yields 3.65 inches of rainfall for the geographic location of the landfill.

Run-on

Run-on is prevented from reaching the active portion of the landfill by perimeter berms along the east and west side, final cover along the north side, and a containment berm along the south. The surrounding topography slopes away from the unit. Run-on from the south is collected by a ditch and conveyed to the west and south. Stormwater on the east side of the landfill is collected by the highway ditch and directed away from the landfill.

The closed portion of the landfill is sloped to convey stormwater off the final cover to stormwater basins located beyond the waste boundary. The height of the perimeter berms, run-on containment berm, final cover, and slope of the surrounding area will prevent flow onto the active portion of the unit during the peak discharge from a 24-hour, 25-year storm event.

Run-off

The active portion of the landfill is currently 20 acres. Stormwater falling within the 20-acre active area is not directed to one common area. Observations from past stormwater inspections following rainfall events have verified the ability of the run-off containment system to contain a 24-hour, 25-year storm event. Run-off from leveled areas is prevented from leaving the lined area by a ditch along the west side, a containment berm along the south, final cover along the north and higher ground along the east side of the landfill.

A 24-hour, 25-year storm event yielding 3.65 inches of rainfall would result in 5.48 acre-feet of water over the 20-acre area of the open landfill as detailed in the calculation below:

$$(3.65 \text{ inches}) / (12 \text{ inches per foot}) * (20 \text{ acres}) = 6.08 \text{ acre-feet.}$$

The landfill topography and the combination of a ditch on the western side and berms on the north, east, and west will collect and control the stormwater from a 24-hour, 25-year storm event.

Amendment of Run-on and Run-off Control Plan § 257.81(c)(2) and (4)

If any event or change affects the plan, a modified Run-on Run-off Control Plan will be prepared and included in the facility's operating record and posted on the CCR website. At a minimum, the Run-on Run-off Control Plan will be reviewed and updated every five years beginning with this version of the Plan.

Certification § 257.81(c)(5)

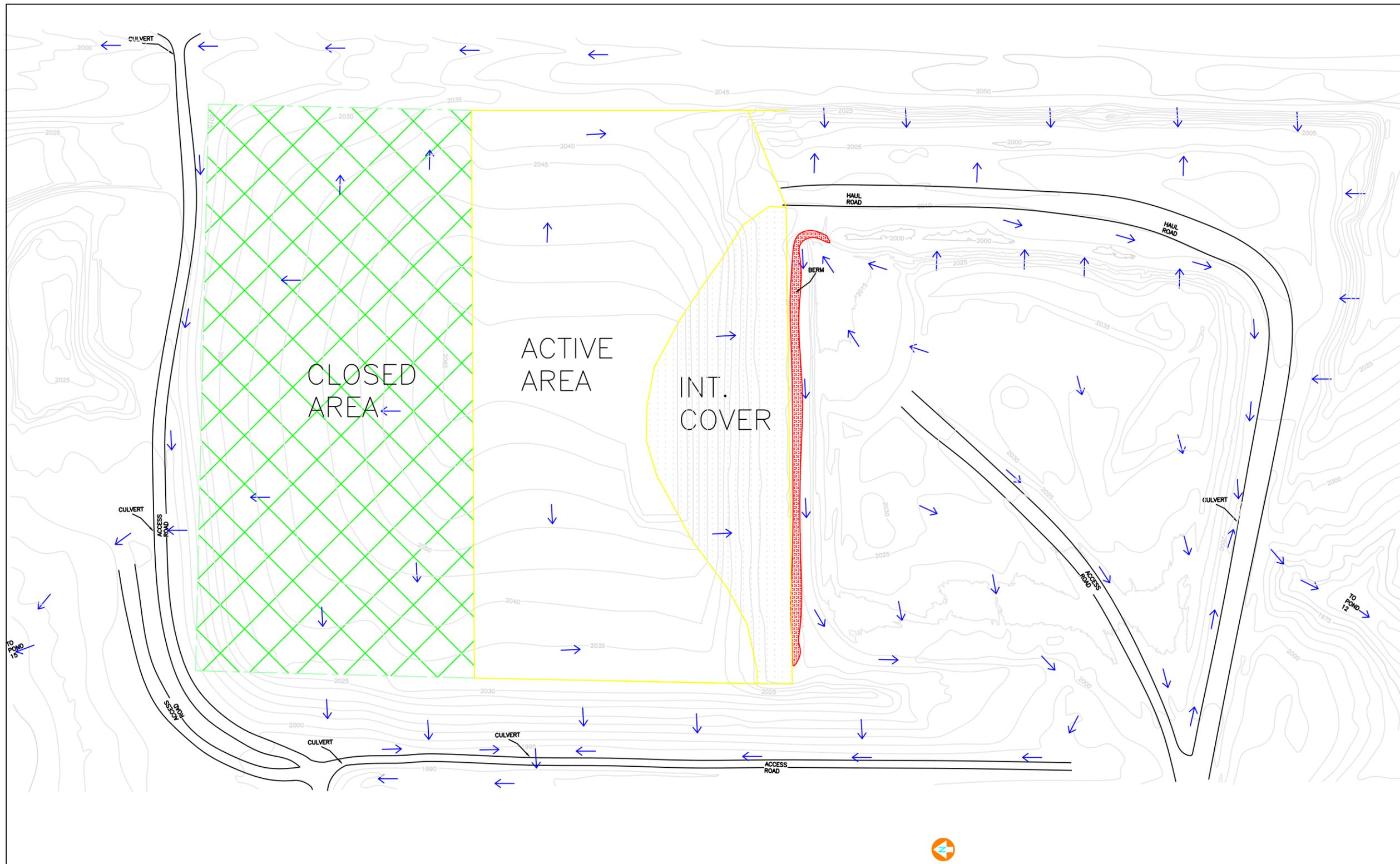
I hereby certify under penalty of law that this report was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Paul M. Vukonich, PE
License No. PE-27050

October 1, 2020

Date



NO.	NAME	DATE	REVISION DESCRIPTION
2	PMV	10-1-20	REVISED TO INCORPORATE 2020 VERT. EXPANSION ACTIVITIES
1	PMV	10-9-17	REVISED TO INCORPORATE 2017 CLOSURE ACTIVITIES
0	PMV	10-17-16	FIGURE DEVELOPMENT FOR COMPLIANCE WITH CCR RULE

← SURFACE WATER FLOW DIRECTION

RUN-ON RUN-OFF CONTROL PLAN
BLUE PIT
COYOTE STATION

FIGURE 1
BLUE PIT DRAINAGE MAP