2020 ANNUAL INSPECTION REPORT

CARTER HOLLOW LANDFILL

OEPA PERMIT TO INSTALL: 06-08445

FORMER STUART STATION
MANCHESTER, ADAMS COUNTY, OHIO

Prepared for:

Kingfisher Development, LLC
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Prepared by:

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Mark Lahr, P.E.

NOVEMBER 09, 2020

KEY ENVIRONMENTAL INCORPORATED

Purpose

I have conducted the annual inspection in compliance with the Federal CCR Rule, 40 CFR Part 257.

Statement of Qualifications

I am a practicing Civil/Geotechnical Professional Engineer registered in the State of Ohio. I am experienced in the design, maintenance, and operation of landfills.

Review of Landfill Documentation [§257.84(b)(1)(i)]

Design, History, and Operation of the Facility

Carter Hollow Landfill was permitted in 2012 as a residual waste landfill. This facility is valley fill design with 2½H:1V side slopes. The facility is designed with an under-drain system, 3 feet of re-compacted soil liner, geosynthetic, leachate collection piping, drainage media and 18 inches of protective cover. Construction of Phase 1A was completed in 2017. The facility is licensed and permitted to receive approximately 20 million tons of CCR material when all phases are complete. An operating license was issued for this facility in 2017 and was renewed for 2018 and 2019. An application has been submitted for 2020 and 2021. This facility has not received any waste as of this time and remains idle.

Visual Inspection of Landfill [§257.84(b)(1)(ii)]

Carter Hollow Landfill is in good structural condition. Appendix A provides the *Landfill Annual Field Inspection Report*.

Changes in Geometry [§257.84(b)(2)(i)]

There were no changes to geometry that would indicate structural weakness or failure. Structural fill, liner, leachate media and protective cover have been completed in Phase 1A.

Volume of CCR [§257.84(b)(2)(ii)]

No waste material has been placed in the Carter Hollow Landfill as of this time.

Structural Weakness [§257.84(b)(2)(iii)]

No indication was found of an actual or potential structural weakness of the CCR unit or any existing condition that was disrupting or had the potential to disrupt the operation and safety of the CCR unit and appurtenant structures.

Other Changes [§257.84(b)(2)(iv)]

No changes were found to the CCR unit which could affect the stability or operation of the structure since the previous annual inspection.

APPENDIX A

LANDFILL ANNUAL FIELD INSPECTION REPORT

KEY ENVIRONMENTAL INCORPORATED

Inspection Date: October 29, 2020
Weather Conditions: rainy, high around 50 degrees (heavy rain the night before)
CCR Unit: Carter Hollow Landfill **Original PTI Number:** 06-08445
Construction / Design Details:

36 inch thick compacted clay liner, 12 inch bottom ash drainage layer, 24 inch clay cover, 6 inch vegetative cover soil, and grass ground cover. Bottom liner sloped to the south for drainage. Additional material placed as protective cover.

	Action			
	None	Monitor	Repair	Engineer
PERMANENT COVER SLOPES (3H:1V)				
Cover Vegetation				
Trees? / Woody Brush?	☒	☐	☐	☐
Grass Ground Cover	☒	☐	☐	☐
Protective Cover - No waste has been placed at this time. Condition: good, sparse vegetative growth observed	☒	☐	☐	☐
Phase 1A Isolation Berm				
one minor erosion rill observed	☐	☒	☐	☐
Surface Damage				
Soil Erosion Rills	☒	☐	☐	☐
Rodent Burrows	☒	☐	☐	☐
Slope Instabilities				
Slides / Sloughs	☒	☐	☐	☐
Cracks	☒	☐	☐	☐
Bulges	☒	☐	☐	☐
Other	☒	☐	☐	☐
Water Seeps / Saturated Areas	☒	☐	☐	☐
Monitoring Instruments				
Downgradient groundwater wells	☒	☐	☐	☐
Other	☒	☐	☐	☐

	Action			
	None	Monitor	Repair	Engineer
Hydraulic Structures				
Perimeter Berm				
Divert runon away from the landfill cell - functioning well	☒	☐	☐	☐
Leachate Drains / Inlet Pipe				
Chimney and leachate drains to central pipe	☒	☐	☐	☐
Leachate Basin				
36 inch clay liner, synthetic liner, protective cover	☒	☐	☐	☐
sediment buildup? None	☒	☐	☐	☐
trees / vegetative growth? Some brushy vegetation observed	☐	☒	☐	☐
Outlet Structure				
HDPE Pipe with animal screen	☒	☐	☐	☐
Discharge Conduit				
24 inch dia HDPE pipe conveys to Landfill 9 perimeter ditch	☒	☐	☐	☐
Discharge Structure				
Concrete weir structure for flow measurement / NPDES sampling	☒	☐	☐	☐
Stormwater Basin				
stormwater basin and inlet / outlet pipes are in good condition	☒	☐	☐	☐

Comments / Additional Remarks

Monitor Phase 1A Isolation Berm for erosion
Monitor leachate basin for woody vegetative growth