

June 10, 2024  
File No. 27223505.00

Mr. Chad Stobbe  
Iowa Department of Natural Resources  
Land Quality Bureau  
6200 Park Avenue  
Des Moines, Iowa 50321

Subject: Financial Assurance for Corrective Action  
Muscatine County Sanitary Landfill  
Permit No. 70-SDP-02-75P

Dear Chad:

SCS Engineers, on behalf of the Muscatine County Solid Waste Management Agency, is submitting the cost estimate and establishment of the financial assurance mechanism for corrective action for the Muscatine County Sanitary Landfill (Landfill) as required in Iowa Administrative Code (IAC) 567-113.14(5)"a". The selected remedy is source control (surface water drainage improvements, leachate management systems, and passive landfill gas vents) and monitored natural attenuation as described in the Selection of Remedy, dated May 9, 2024 (Doc #110026).

The duration of the corrective action period is assumed to be approximately 30 years, with a projected ending date of 2054. As stated in the Selection of Remedy, the remedy completion date will be evaluated annually and adjusted if necessary.

A detailed written estimate in current dollars of the cost of hiring a third party to perform the required corrective action is included in Attachment A. The estimated costs of hiring a third party to perform the required corrective action for the entire corrective action period are estimated to be approximately \$137,294.

The City of Muscatine (City) utilized the Local Government Financial Test as a component of the closure and post-closure financial assurance for the Landfill. The Local Government Financial Test amount assigned to closure and post-closure financial assurance in 2024 was \$3,142,101 (see Doc #109530). The maximum amount able to be assured through the Local Government Financial Test, however, was \$24,083,162 (based on 43% of Line 2 in Alternative 1 of the financial test form included in Doc #109530), leaving an unused potential financial assurance amount of \$20,941,061. For corrective action financial assurance, the City will utilize an additional \$137,294 of the Local Government Financial Test mechanism. The allocation of the financial assurance for closure, post-closure, and corrective action will be consolidated and documented annually beginning with the 2025 annual financial assurance submittal.



If you have any questions regarding the financial assurance for corrective action or this correspondence, please contact Nathan Ohrt at (319) 331-9613.

Sincerely,





Nathan Ohrt  
Senior Project Professional  
SCS Engineers



Timothy C. Buelow, P.E.  
Senior Project Advisor  
SCS Engineers

NPO/TCB

Copies: Dave Popp, City of Muscatine  
Nancy Lueck, City of Muscatine  
Brian Stineman, City of Muscatine

	<p>I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.</p>
	<p> Date: <u>6/10/2024</u></p> <p>Timothy C. Buelow, P.E. License No. 14445 My license renewal date is December 31, 2025.</p> <p>Pages or sheets covered by this seal: <u>Attachment A - Muscatine County Sanitary Landfill Corrective Action Financial cost estimate.</u></p>

**Attachment A**

**Corrective Action Cost Estimate Worksheet**

# Corrective Action Cost Estimate - Muscatine County Sanitary Landfill

Task	Cost per Unit	Unit	Units	Cost of Task
1. Corrective Action Groundwater Quality Sampling/Monitoring/Reporting:	\$ 4,230	year	30	\$ 126,894
2. Remedy Completion Certification and Documentation:	\$ 3,000	lump sum	1	\$ 3,000
3. Remedy Decommissioning:	\$ 7,400	lump sum	1	\$ 7,400
<b>Total Cost of Corrective Action</b>				<b>\$ 137,294</b>

**Notes:**

Selected remedy is source control via surface water drainage improvements, leachate management systems, and passive landfill gas vents with monitored natural attenuation.

This calculation is based on a 30 year remedy completion date. The remedy completion date will be evaluated annually and adjusted if necessary.

Estimated remedy completion date: 2054