



City Hall, 215 Sycamore St.  
Muscatine, IA 52761-3899  
(563) 264-1550  
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**FINANCE & RECORDS**

March 19, 2023

Mr. Michael Sullivan  
Iowa Department of Natural Resources  
Wallace State Office Building  
Des Moines, IA 50319

Dear Mr. Sullivan:

Enclosed is the Financial Assurance Annual Report and related attachments for the Muscatine County Landfill (Permit 70-SDP-2-75P). The attachments are as follows:

1. Financial Assurance Annual Report.
2. Letter from the chief financial officer for the "Local Government Financial Test".
3. Closure and Post-Closure Cost Estimates prepared by SCS Engineers
4. The Annual Comprehensive Financial Report for the City of Muscatine for the year ended June 30, 2023, can be found at:

<https://muscatineiowa.gov/DocumentCenter/View/29096/Annual-Comprehensive-Financial-Report-for-the-Year-ended-June-30-2023-PDF>

See the Muscatine County Solid Waste Agency column on the Statement of Net Position on pages 36-37 and Note 7 on page 77 for verification of the assets restricted for closure and post-closure costs. Copies of those pages are also attached.

Please contact me if you have any questions or need any additional information. Thank you for your assistance.

Sincerely,

Nancy A. Lueck  
Finance Director

Enclosures



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**FINANCE & RECORDS**

March 19, 2023

Iowa Department of Natural Resources  
Planning, Permitting & Engineering Services  
Wallace State Office Building  
502 E 9<sup>th</sup> Street  
Des Moines, IA 50319

Dear Sir or Madam:

I am the chief financial officer of the City of Muscatine, operator of the Muscatine County Sanitary Landfill, for the Muscatine County Solid Waste Management Agency. This letter is in support of the City of Muscatine's use of the Financial Test to demonstrate financial assurance for closure and post-closure care costs, as specified in IAC 567 Chapter 113.14(3) and 113.14(4).

The City of Muscatine is the operator of the following Municipal Solid Waste Landfill for which financial assurance for closure and post-closure care is demonstrated through the Financial Test, as specified in IAC 567 Chapter 113.14(6)"f":

Landfill Name: Muscatine County Sanitary Landfill

Address: Muscatine County, Iowa

Permit No: 70-SDP-2-75 P

The current closure and/or post-closure cost estimates, in accordance with IAC 567 Chapter 113.14(3) and 113.14(4), are shown below for each facility covered by the Financial Test:

Closure cost to be assured: \$2,208,787

Post-closure cost to be assured: \$ 933,314

The City of Muscatine meets or exceeds the Financial Test criteria as shown in Alternative I (attached) and agrees to comply with the reporting requirements as specified in subrule 113.14(6)"f".

As chief financial officer for the City of Muscatine, I hereby certify that the information provided in this letter is true to the best of my knowledge and that this letter is being submitted in accordance with IAC 567 Chapter 113.14(6)"f" for the "Local Government Financial Test".

Sincerely,

Nancy A. Lueck  
Finance Director

**"I remember Muscatine for its sunsets. I have never seen any  
on either side of the ocean that equaled them" — Mark Twain**

The figures for the following items are derived from the City of Muscatine's independently audited, year-end financial statements/audit report for the latest completed fiscal year, ended June 30, 2022. MD&A on page 22 of Audit plus Solid Waste Agency pages 37-38.

### Alternative I

1. Sum of the current closure and postclosure cost estimates being assured by the financial test.	\$3,142,101	\$3,105,274
	<b>From most recent annual auditor's report</b>	<b>From 2<sup>nd</sup> most recent annual auditor's report</b>
2. Total Revenues for past two years	\$56,007,355	\$57,778,096
3. Total Expenditures for past two years	\$50,755,160	\$47,297,970
4. Current bond rating of most recent outstanding general obligation bonds	Aa2	Aa2
<b>Must be able to answer "yes" or "true" to the following</b>	<b>Yes/True</b>	<b>No/False</b>
5. Has evidence been provided of most recent bond rating?	Yes	
6. Are outstanding general obligation bonds rated at least Aaa, Aa, A, or Baa, as issued by Moody's or AAA, AA, A or BBB, as issued by Standard & Poor's?	Yes	
7. There are no outstanding general obligation bonds that are currently in default?	True	
8. There are no outstanding general obligation bonds rated lower than Baa as issued by Moody's or BBB as issued by Standard & Poor's	True	
9. Have financial statements (audit) been prepared in conformity with Generally Accepted Accounting Principles or with Other Comprehensive Basis of Accounting?	Yes	
10. Is line 3 less than line 2 in each of the past two years?	Yes	
11. If answered "no" to line 10, is the difference between line 3 and line 2 less than 5 percent of line 2 in each of the past two years?	N/A	
12. Is line 1 less than 43 percent of line 2?	Yes	
13. Have not received an adverse opinion or disclaimer of opinion from the independent certified public accountant or office of the auditor of the state of Iowa	True	
14. Have closure and postclosure costs being assured been referenced in the owner's most recent audit report or instead placed in the owner's files if timing did not permit reference in the most recent audit?	Yes	

#### Definitions:

"Deficit" – means total annual revenues minus total annual expenditures.

"Total revenues" – means revenues from all taxes and fees but does not include the proceeds from borrowing or asset sales, excluding revenue from funds managed by local government on behalf of a specific third party.

"Total expenditures" – means all expenditures excluding capital outlays and debt repayment.

"Cash plus marketable securities" – means all the cash plus marketable securities held by the local government on the last day of a fiscal year, excluding cash and marketable securities designated to satisfy past obligations such as pensions

"Debt service" – means the amount of principal and interest due on a loan in a given time period, typically the current year.

City of Muscatine, Iowa  
Statement of Net Position  
June 30, 2023



	Primary Government			Component Units	
	Governmental Activities	Business-type Activities	Total	Muscatine County Solid Waste Agency	Muscatine Power & Water
<b>ASSETS</b>					
Cash and pooled investments	\$ 15,862,896	\$ 15,336,638	\$ 31,199,534	\$ 2,167,575	\$ 26,277,725
Investments	1,002,527	1,079,321	2,081,848	-	53,412,128
Receivables (net of allowance for uncollectibles):					
Interest	109,527	75,154	184,681	25,989	313,212
Taxes	19,438,392	-	19,438,392	-	-
Accounts	850,161	2,170,944	3,021,105	-	10,562,107
Intergovernmental	6,035,521	193,653	6,229,174	-	-
Lease receivables	863,002	540,518	1,403,520	-	-
Internal balances	(855,381)	855,381	-	-	-
Inventories	138,117	42,262	180,379	-	15,346,491
Prepays	111,486	5,900	117,386	-	1,093,332
Restricted assets:					
Temporarily restricted:					
Cash and pooled investments	-	176,850	176,850	3,023,910	947,950
Restricted accrued interest	-	3,407	3,407	-	-
Assets held for resale	-	172,517	172,517	-	-
Capital assets:					
Land, art work and construction in progress, not being depreciated	31,402,636	10,028,501	41,431,137	1,120,958	9,886,155
Other capital assets net of accumulated depreciation	64,091,830	83,791,606	147,883,436	482,276	-
Utility plant in service	-	-	-	-	111,698,273
Intangible assets (net of accumulated amortization)	283,160	-	283,160	-	-
Joint venture rights	-	-	-	-	144,158
Net pension asset	-	-	-	-	891,017
<b>Total assets</b>	<b>139,333,874</b>	<b>114,472,652</b>	<b>253,806,526</b>	<b>6,820,708</b>	<b>230,572,548</b>
<b>DEFERRED OUTFLOWS OF RESOURCES</b>					
Pension related deferred outflows	3,158,522	567,869	3,726,391	-	7,642,083
OPEB related deferred outflows	545,083	155,934	701,017	-	295,323
<b>Total deferred outflows of resources</b>	<b>3,703,605</b>	<b>723,803</b>	<b>4,427,408</b>	<b>-</b>	<b>7,937,406</b>
<b>LIABILITIES</b>					
Accounts payable and accruals	2,484,522	1,337,443	3,821,965	85,166	8,331,302
Retainages payable	115,104	243,799	358,903	-	-
Deposits	-	46,117	46,117	-	1,057,357
Accrued interest payable	35,903	14,983	50,886	-	-
Escrow liability	89,303	4,731	94,034	-	-
Unearned revenue	2,717,603	47,968	2,765,571	-	28,191,739
Liabilities payable from restricted assets:					
Current installment of long-term debt	17,527	-	17,527	-	1,854,565
Accrued interest payable	-	-	-	-	43,579
Noncurrent liabilities:					
Due within one year	3,374,167	1,128,696	4,502,863	2,444	-
Due in more than one year	26,656,791	10,235,316	36,892,107	4,727,659	21,428,871
<b>Total liabilities</b>	<b>35,490,920</b>	<b>13,059,053</b>	<b>48,549,973</b>	<b>4,815,269</b>	<b>60,907,413</b>
<b>DEFERRED INFLOWS OF RESOURCES</b>					
Pension related deferred inflows	697,530	255,771	953,301	-	13,134,310
OPEB related deferred inflows	108,306	30,984	139,290	-	86,164
Deferred inflow - property taxes	18,786,623	-	18,786,623	-	-
Deferred inflow - leases	851,448	521,045	1,372,493	-	-
<b>Total deferred inflows of resources</b>	<b>20,443,907</b>	<b>807,800</b>	<b>21,251,707</b>	<b>-</b>	<b>13,220,474</b>

(Continued)

	Primary Government			* Component Units	
	Governmental Activities	Business-type Activities	Total	Muscatine County Solid Waste Agency	Muscatine Power & Water
(Continued)					
<b>NET POSITION</b>					
Net investment in capital assets	81,445,255	84,669,996	166,115,251	1,603,234	101,066,127
Restricted for:					
Debt service	92,192	146,432	238,624	-	904,371
Public works	1,885,547	-	1,885,547	-	-
Community and economic development	399,572	-	399,572	-	-
Public safety	14,224	-	14,224	-	-
Employee benefits	144,421	-	144,421	-	-
Tax increment financing projects	856,521	-	856,521	-	-
Capital projects	527,466	-	527,466	-	-
Perpetual care, nonexpendable	915,919	-	915,919	-	-
Endowments:					
Nonexpendable	132,000	-	132,000	-	-
Expendable	745,962	-	745,962	-	-
Unrestricted	(56,427)	16,513,174	16,456,747	402,205	62,411,569
Total net position	\$ 87,102,652	\$ 101,329,602	\$ 188,432,254	\$ 2,005,439	\$ 164,382,067

The notes to the financial statements are an integral part of this statement.

Annual future principal and interest payments are expected to require 39% of the water utility net revenues.

All MP&W communications utility revenues, net of specified operating expenses, are pledged as security of the communications debt until fully paid. Annual future principal and interest payments are expected to require 35% of communications utility net revenues.

Principal and interest paid in 2022 and communications utility net revenue, are as follows:

	<u>Communications</u>
Principal and interest paid	\$ 1,609,883
Net revenues	4,992,694

Restricted assets represent amounts set aside under the terms of the water bond agreement. In accordance with the covenants of the bond resolutions, the amounts have been segregated into funds. In accordance with the bond agreement, the bond fund is used solely for the purpose of paying the interest on and principal of the outstanding debt. The composition of the restricted assets at December 31, 2022 is as follows:

	<u>Water Utility</u>
Bond Fund	\$ 947,950
Total restricted assets	<u>\$ 947,950</u>

#### \* NOTE 7. LANDFILL CLOSURE AND POSTCLOSURE CARE COST

State and federal laws and regulations require the Muscatine County Solid Waste Management Agency to place a final cover on its landfill site when it stops accepting waste and to perform certain maintenance and monitoring functions at the site for thirty years after closure.

Although closure and post closure care costs will be paid only near or after the date that the landfill stops accepting waste, the Agency reports a portion of these closure and post closure care costs as an operating expense in each period based on landfill capacity used as of each balance sheet date. The \$4,724,687 reported as landfill closure and post closure care liability at June 30, 2023, represents the cumulative amount reported to date based on the use of 80% of the estimated capacity of the current landfill property. The Agency will recognize the remaining estimated cost of closure and post closure care of \$1,181,172 as the remaining estimated capacity is filled over the 12 remaining years.

These amounts are based on what it would cost to perform all closure and post closure care in 2023. The Agency expects the currently-permitted landfill property to reach its capacity in 2035. Actual costs may be higher due to inflation, changes in technology, or changes in regulations. Financial assurances for closure and post-closure care is demonstrated through the Financial Test as specified in IAC 567 Chapter 113.14(6)f. The Agency has begun to accumulate resources to fund these costs in accordance with state and federal requirements.

# MOODY'S

## INVESTORS SERVICE

### CREDIT OPINION

\* 11 May 2022



Send Your Feedback

#### Contacts

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**EMEA** 44-20-7772-5454

## Muscatine (City of) IA

### Update to credit analysis

#### Summary



Muscatine, IA (Aa2) benefits from a growing tax base, stable financial operations and healthy reserves. Debt levels are moderate and will remain so given limited future borrowing plans. The city's tax base is growing and population trends are stable. The pension burden, however, will remain slightly elevated based on the city's participation in two state-managed pension plans. The primary credit challenge is low resident incomes and a lack of economic diversity that closely ties the city's economy to the manufacturing sector.

#### Credit strengths

- » Sound financial operations with healthy reserves
- » Stable population trends

#### Credit challenges

- » Smaller tax base and lower resident incomes compared to similarly rated entities
- » High economic concentration in manufacturing

#### Rating outlook

Moody's does not typically assign outlooks to local governments with this amount of debt.

#### Factors that could lead to an upgrade

- » Significant economic activity that drives both expansion and diversification of the city's tax base and improvement in resident incomes
- » Material reduction in pension burden

#### Factors that could lead to a downgrade

- » Weakening of the local economy evidenced by declining of property values, increased unemployment or a decline in the city's resident income profile
- » Narrowing of operating reserves or liquidity
- » Growth in debt or pension burdens

March 18, 2024  
File No. 27223255.24

Ms. Nancy Lueck  
City of Muscatine  
215 Sycamore Street  
Muscatine, Iowa 52761

Subject: 2024 Financial Assurance  
Muscatine County Sanitary Landfill  
Permit No. 70-SDP-02-75P

Dear Ms. Lueck:

SCS Engineers (SCS) is providing the enclosed documentation to be included in the 2024 Financial Assurance submittal to the Iowa Department of Natural Resources for the Muscatine County Sanitary Landfill (Landfill). Attached is the completed DNR Municipal Solid Waste Sanitary Landfill Financial Assurance Report Form for the year 2024. **Attachment A** contains the 2024 third-party closure/post-closure cost estimates as required by the Iowa Administrative Code and the Landfill's operating permit.

If you have any questions or comments, please contact us at (515) 631-6160.

Sincerely,



Chris T. Calhoun, EIT  
Associate Professional  
SCS Engineers





Timothy C. Buelow, P.E.  
Project Director  
SCS Engineers

Encl. Attachment A - 2024 Financial Assurance Cost Estimate

CTC/REH/TCB

cc: Mr. Dave Popp, Solid Waste Manager, Muscatine Recycling Center and Transfer Station  
Electronic File

	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.
	 Date: <u>3/18/24</u>
	Timothy C. Buelow, P.E.
	License No. 14445
	My license renewal date is December 31, 2025
Pages or sheets covered by this seal: Attachment A only	







## Municipal Solid Waste Sanitary Landfill Financial Assurance Report Form

### SECTION 1: FACILITY INFORMATION

(please print or type)

#### Information Requested

Facility Name: Muscatine County Sanitary Landfill Permit Number: 70-SDP-02-75P

Permitted Agency/Entity: Muscatine County Solid Waste Management Agency

### SECTION 2: CLOSURE/POSTCLOSURE OR CORRECTIVE ACTION COST ESTIMATES

Information Requested	Cost Estimate	Date of Cost Estimate
Updated Closure Cost Estimate	\$ 4,002,579	3/18/2024
Updated Postclosure Cost Estimate	\$ 2,163,432	3/18/2024
Initial or Updated Corrective Action Cost Estimate	\$	

\*Attach closure/postclosure cost estimate(s) signed and certified by an Iowa-licensed professional engineer. Cost estimates shall include, at a minimum, each of the cost line items defined in 113.14(3)"c" for closure and 113.14(4)"c" for postclosure. Please provide closure and/or postclosure site area acreage information with the estimates.

Provide a cost estimate for corrective action only if corrective action is required and a corrective action plan has been approved by the Department. Attach the corrective action cost estimate signed and certified by an Iowa-licensed professional engineer. The cost estimate shall account for total costs of the activities described in the approved corrective action plan for the corrective action period.

### SECTION 3: FACILITY WASTE TONNAGE INFORMATION

Information Requested	Tons
Remaining permitted capacity as of the beginning of permit holder's current fiscal year	547,388*
Amount of waste disposed of at the facility during the prior year	39,791

\*Remaining permitted capacity estimated using the airspace survey conducted October 30, 2023

### SECTION 4: PROOF OF COMPLIANCE

#### Publicly Owned Municipal Solid Waste Landfills

(ATTACH AUDIT REPORT)

Owner's Most Recent Annual Audit Report

Prepared by: Bohnsack & Frommelt LLP

For fiscal year ending: June 30, 2023

#### Privately Owned Municipal Solid Waste Landfills

(ATTACH AFFIDAVIT)

Attach owner/operator's affidavit indicating that an annual review has been performed by a certified public accountant to determine whether the privately owned landfill is in compliance with IAC 567 Chapter 113. The affidavit shall state the name of the certified public accountant, the dates and conclusions of the review, and the steps taken to rectify any deficiencies identified by the accountant.

**SECTION 5: FINANCIAL ASSURANCE INSTRUMENT****Type and Value of Financial Assurance Instrument(s)****(ATTACH INSTRUMENT(S))**

<b>Assurance Instrument</b>	<b>Establishment Date</b>	<b>Mechanism Covers</b>	<b>Instrument Value*</b>
Trust Fund 567 IAC 113.14(6)"a"		Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/>	\$
Surety Bond 567 IAC 113.14(6)"b"		Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/>	\$
Letter of Credit 567 IAC 113.14(6)"c"		Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/>	\$
Insurance 567 IAC 113.14(6)"d"		Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/>	\$
Corporate Financial Test 567 IAC 113.14(6)"e"		Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/>	\$
Local Gov't. Financial Test 567 IAC 113.14(6)"f"		Closure <input checked="" type="checkbox"/> Postclosure <input checked="" type="checkbox"/> Corrective Action <input type="checkbox"/>	\$ 3,142,101
Corporate Guarantee 567 IAC 113.14(6)"g"		Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/>	\$
Local Gov't Guarantee 567 IAC 113.14(6)"h"		Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/>	\$
Local Gov't. Dedicated Fund 567 IAC 113.14(6)"i"		Closure <input checked="" type="checkbox"/> Postclosure <input checked="" type="checkbox"/> Corrective Action <input type="checkbox"/>	\$ 3,023,910

\*Pursuant to IAC 567 113.14(9), if account(s) are restricted/reserved to pay for closure, postclosure or corrective action costs, then the amount of the financial assurance instrument may be reduced by the sum of the cash balance of the account(s) established to comply with subrule 113.14(8).

**SECTION 6: INITIAL PROOF OF ESTABLISHMENT OF ACCOUNTS****Check Which Applies:**☐ New Mechanism☐ Previously Submitted

Pursuant to IAC 567 Chapter 113.14(8)"f", documentation of the establishment of accounts is to be submitted to the department by April 1, 2003 for currently permitted MSWLFs. Permit holders for MSWLFs permitted after April 1, 2003, shall submit documentation of the establishment of accounts prior to the MSWLF's initial receipt of waste.

Please attach documentation indicating accounts/fund have been established for closure and postclosure care and if the account(s) are restricted/reserved for closure or postclosure care. Examples of documentation include bank statements for closure/postclosure accounts, letter signed by the chief financial officer, letter from certified public accountant, etc.

Accounts established pursuant to paragraph 113.14(6)"a" for trust funds or paragraph 113.14(6)"i" for local government dedicated funds also satisfies the requirements of this subrule, and the permit holder shall not be required to establish additional closure and postclosure accounts.

## SECTION 7: CLOSURE AND POSTCLOSURE ACCOUNTS

Completion of the following closure and postclosure account information complies with the annual financial statement requirements of IAC 567 113.14(3)"a" and 113.14(4)"a" by indicating the current balance(s) of the closure/postclosure account(s) or dedicated/trust fund and the projected amount(s) to be deposited in the account(s).

Under "Beginning Balance", please state the account/fund balance 30 days after the start of the previous fiscal year, for "Ending Balance", indicate the account balance 30 days after the close of the previous fiscal year, and for "Projected Deposit", indicate the amount to be deposited within 30 days of the close of the permit holder's fiscal year.

Information Requested	Beginning Balance	Ending Balance	Projected Deposit
Closure Account Balance (see formula below)	\$ 1,630,548	\$ 1,793,792	\$ 160,562
Postclosure Account Balance (see formula below)	\$ 1,170,037	\$ 1,230,118	\$ 67,845
Or			
Dedicated Fund Balance (see formula below)	\$	\$	\$
Trust Fund Balance (see formula below)	\$	\$	\$

### Formula for Projected Deposits

Closure or Postclosure Account

$$\frac{CE - CB}{RPC} \times TR$$

Where "CE" is the closure or postclosure cost estimate, "CB" is the balance 30 days after close of the previous fiscal year, "RPC" is the remaining permitted capacity in tons, of the landfill from the beginning of the current fiscal year, and "TR" is the total number of tons of solid waste disposed in the prior year.

Dedicated/Trust Fund

$$\frac{CE - CB}{Y}$$

Where "CE" is the closure or postclosure cost estimate, "CB" is the balance 30 days after close of the previous fiscal year, and "Y" is number of years remaining in the pay-in period.

If needed, the space below can be used to show calculations for projected deposits

Closure	Postclosure
$\frac{\$4,002,579 (CE) - \$1,793,792 (CB)}{547,388 (RPC)} \times 39,791 (TR) = \$160,562$	$\frac{\$2,163,432 (CE) - \$1,230,118 (CB)}{547,388 (RPC)} \times 39,791 (TR) = \$67,845$

## SECTION 8: PERMIT HOLDER ENDORSEMENT

Submittal of this completed and endorsed form along with all required documentation establishes Notification and Proof of Permit Holder Compliance with IAC 567 Chapter 113.

Name of Official: Nancy Lueck Title: Finance Director

Agency/Entity: City of Muscatine

Address: 215 Sycamore Street

City: Muscatine State: Iowa Zip: 52761

Telephone: (563) 264-1550 Fax: (563) 264-0750

Email Address: nlueck@muscatineiowa.gov

Signature of Official:  Date: 3-19-24

Questions? Contact Bill Blum at (515) 240-6048 or [Bill.Blum@dnr.iowa.gov](mailto:Bill.Blum@dnr.iowa.gov)

Attachment A

## 2024 Closure Cost Estimate - Muscatine County Sanitary Landfill

Task	Units	Cost per Unit	Cost Year	Total Cost
1. Closure and Postclosure Plan Document Revisions	1.0	\$ 7,500 lump sum	2024	\$ 7,500
2. Site Preparation, Earthwork, and Final Grading	1.0	\$ 559,870 lump sum	2024	\$ 559,870
3. Drainage Control Culverts, Piping, and Structures	0.0	\$ - lump sum	2024	\$ -
4. Erosion Control Structures, Sediment Ponds, and Terraces	1.0	\$ 91,316 lump sum	2024	\$ 91,316
5. Final Cap Construction	1.0	\$ 1,863,860 lump sum	2024	\$ 1,863,860
6. Cap Vegetation Soil Placement	1.0	\$ 218,148 lump sum	2024	\$ 218,148
7. Cap Seeding, Mulching, and Fertilizing	1.0	\$ 74,597 lump sum	2024	\$ 74,597
8. Monitoring Well, Piezometer, and Gas Control Modifications	1.0	\$ 854,188 lump sum	2024	\$ 854,188
9. Leachate System Cleanout and Extraction Well Modifications	1.0	\$ 4,600 lump sum	2024	\$ 4,600
10. Monitoring Well Installation and Abandonments	0.0	\$ - lump sum	2024	\$ -
11. Facility Modifications to Effect Closed Status	1.0	\$ 1,500 lump sum	2024	\$ 1,500
12. Engineering and Technical Services	1.0	\$ 257,000 lump sum	2024	\$ 257,000
13. Legal, Financial, and Administrative Services	1.0	\$ 55,000 lump sum	2024	\$ 55,000
14. Closure Compliance Certifications and Documentatior	1.0	\$ 15,000 lump sum	2024	\$ 15,000
<b>2024 Total Cost of Closure</b>				<b>\$ 4,002,579</b>

**Notes:**

<sup>1</sup> Task items based on the list from 567 IAC 113.14(3)"c"(6). Calculations for each task are contained on the following pages.

<sup>2</sup> Previously Closed Areas 56.03 acres

<sup>3</sup> Phase 1, 2, 3, 4, and 5 (landfill cap = Standard Composite) 18.62 acres

<sup>4</sup> Approximate borrow area 10.50 acres

<sup>5</sup> Tasks 5, 6, and 7 above include 0.06 acres for the previously closed area beneath the rock stockpile area (See Doc DNA No. 83590).

## 2024 Postclosure Cost Estimate - Muscatine County Sanitary Landfill

Task	Units	Cost per Unit	Cost Year	30 Year Cost
1. General Site Facilities, Access Roads, and Fencing Maintenance	30	\$ 1,129 / year	2024	\$ 33,877
2. Cap and Vegetative Cover Maintenance	30	\$ 4,896 / year	2024	\$ 146,875
3. Drainage and Erosion Control Systems Maintenance	30	\$ 967 / year	2024	\$ 28,998
4. Groundwater to Waste Separation Systems Maintenance	30	\$ 110 / year	2024	\$ 3,300
5. Gas Control Systems Maintenance	30	\$ 618 / year	2024	\$ 18,539
6. Gas Control Systems Monitoring and Reporting	30	\$ 6,430 / year	2024	\$ 192,900
7. Groundwater and Surface Water Monitoring Systems Maintenance	30	\$ 356 / year	2024	\$ 10,683
8. Groundwater and Surface Water Quality Monitoring and Reporting	30	\$ 33,071 / year	2024	\$ 992,126
9. Groundwater Monitoring Systems Performance Evaluations and Reports	30	\$ - / year	2024	\$ -
10. Leachate Control Systems Maintenance	30	\$ 10,001 / year	2024	\$ 300,038
11. Leachate Management, Transportation, and Disposal	30	\$ 7,619 / year	2024	\$ 228,572
12. Leachate Control Systems Performance Evaluations and Reports	30	\$ 1,200 / year	2024	\$ 36,000
13. Engineering and Technical Services	30	\$ 2,048 / year	2024	\$ 61,425
14. Legal, Financial, and Administrative Services	30	\$ 1,500 / year	2024	\$ 45,000
15. Financial Assurance, Accounting, Audits, and Reports	30	\$ 2,170 / year	2024	\$ 65,100
<b>2024 Total Cost of Postclosure</b>		<b>\$ 72,114</b>		<b>\$ 2,163,432</b>

**Notes:**

<sup>1</sup> Task items based on the list from 567 IAC 113.14(4)"c"(6). Calculations for each task are contained on the following pages.