

December 29, 2023  
File No. 27223447.00

Mr. Bill Blum  
Iowa Department of Natural Resources  
Land Quality Bureau  
Wallace State Office Building  
502 East 9<sup>th</sup> Street  
Des Moines, Iowa 50319

**Subject: Financial Assurance for Corrective Action  
Sioux City Sanitary Landfill  
Permit No. 97-SDP-03-81C**

Dear Bill:

SCS Engineers, on behalf of the City of Sioux City (City), is submitting the cost estimate and establishment of the financial assurance mechanism for corrective action for the Sioux City Sanitary Landfill (Landfill) as required in Iowa Administrative Code (IAC) 567-113.14(5)"a". The selected remedy is source control (passive subsurface venting of landfill gas) and monitored natural attenuation as described in the Selection of Remedy, dated November 29, 2023 (Doc #108299).

The duration of the corrective action period is assumed to be approximately 10 years, with a projected ending date of 2033. As stated in the approved Assessment of Corrective Measures report, dated June 30, 2023 (Doc #107100), 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 \$106,902.

The City designated an additional \$106,902 to the Landfill account as corrective action financial assurance as documented in Attachment B.

The allocation of the accounts for post-closure and corrective action will be documented annually beginning with the 2024 annual financial assurance submittal.



Bill Blum  
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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.  
Project Director  
SCS Engineers

NPO/TCB

Copies: Arah Montagne, City of Sioux City  
Thomas Pingel, City of Sioux City

	<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>12/29/2023</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 – Sioux City Sanitary Landfill Corrective Action Financial Assurance cost estimate.</u></p>
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**Attachment A**

**Corrective Action Cost Estimate Worksheet**

## Corrective Action Cost Estimate - Sioux City Sanitary Landfill

Task	Cost per Unit	Unit	Units	Cost of Task
1. Source Control - Passive Vent Installation:	\$ 39,750	lump sum	1	\$ 39,750
2. Corrective Action Groundwater Quality Sampling/Monitoring:	\$ 2,165	year	10	\$ 21,652
3. Corrective Action Groundwater Quality Monitoring and Reporting:	\$ 2,000	year	10	\$ 20,000
4. Gas Monitoring and Reporting	\$ 1,500	year	10	\$ 15,000
5. Remedy Completion Certification and Documentation:	\$ 3,000	lump sum	1	\$ 3,000
6. Remedy Decommissioning:	\$ 7,500	lump sum	1	\$ 7,500
<b>Total Cost of Corrective Action</b>				<b>\$ 106,902</b>

### Notes:

Selected remedy is source control via landfill gas venting with monitored natural attenuation.

This calculation is based on a 10 year remedy completion date. The remedy completion date will be evaluated annually and adjusted if necessary.

Estimated remedy completion date: 2033

**Attachment B**  
**Deposit Verification**

Cash account balance:

531-0000-101.00-00

Account information

Current Assets / Cash

Fiscal year:

2024

Dr

Opening balance:

883,803.00

Debits:

1,154,469.00

Credits:

1,020,705.00

Balance:

1,017,567.00

Account Balance by Period

Period/Month	Actuals	Cumulative Totals
01 July	883,803.00	883,803.00
02 August	.00	883,803.00
03 September	.00	883,803.00
04 October	.00	883,803.00
05 November	.00	883,803.00
06 December	133,764.00	1,017,567.00
07 January	.00	1,017,567.00
08 February	.00	1,017,567.00
09 March	.00	1,017,567.00
10 April	.00	1,017,567.00
11 May	.00	1,017,567.00
12 June	.00	1,017,567.00

Segment/Balance Details

Fund

531

Solid Waste Restricted

Department

00

Division

00

Activity basic

10

Current Assets

Sub activity

1

Cash

Element

00

Object

00

	Debits	Credits	Account Balance
Opening Balance			883,803.00
Current	1,154,469.00	1,020,705.00	
Unposted	.00	.00	
Total	1,154,469.00	1,020,705.00	1,017,567.00

Option	Sequence #	Code	Freeform Information	Amount
Misc info update	1.00	NOTE	ACCOUNT BALANCE BREAKDOWN = \$910,665 POST CLOSURE	
Misc info update	2.00	NOTE	CARE, \$106,902 CORRECTIVE ACTION PLAN	
Misc info update	3.00	NOTE	TOTAL = \$1,017,567 ACCOUNT BALANCE. RC	

Liability account balance:

530-0000-226.00-00

Account information				-
<input checked="" type="checkbox"/> Current Liabilities / Est Liab Landfill Closure				
Fiscal year:	2024	Cr		
Opening balance:	921,203.00			
Debits:	1,028,105.00			
Credits:	1,131,869.00			
<input checked="" type="checkbox"/> Balance:	1,024,967.00			

Account Balance by Period			-
Period/Month	Actuals	Cumulative Totals	
01 July	921,203.00	921,203.00	
02 August	.00	921,203.00	
03 September	.00	921,203.00	
04 October	.00	921,203.00	
05 November	.00	921,203.00	
06 December	103,764.00	1,024,967.00	
07 January	.00	1,024,967.00	
08 February	.00	1,024,967.00	
09 March	.00	1,024,967.00	
10 April	.00	1,024,967.00	
11 May	.00	1,024,967.00	
12 June	.00	1,024,967.00	

Segment/Balance Details				-
Fund	530	Solid Waste Fund		
Department	00			
Division	00			
Activity basic	22	Current Liabilities		
Sub activity	6	Est Liab Landfill Closure		
Element	00			
Object	00			
		Debits	Credits	Account Balance
Opening Balance				921,203.00
Current		1,028,105.00	1,131,869.00	
Unposted		.00	.00	
Total		1,028,105.00	1,131,869.00	1,024,967.00

Option	Sequence #	Code	Freeform Information	Amount
Misc info update	1.00	NOTE	ACCOUNT BALANCE BREAKDOWN = \$910,665 POST CLOSURE	
Misc info update	2.00	NOTE	CARE, \$106,902 CORRECTIVE ACTION PLAN,	
Misc info update	3.00	NOTE	\$7,400 CITIZEN CONVENIENCE CENTER	
Misc info update	4.00	NOTE	TOTAL = \$1,024,967 ACCOUNT BALANCE. RC	

GROUP NUMBER : 08437 LANDFILL CORRECTIVE ACTIO  
ACCOUNTING PERIOD: 06/2024  
GROUP USER ID : RCORONA  
GROUP CREATED BY : RCORONA  
GROUP UPDATED BY : RCORONA

TRANS NO	TRANS DATE	DOCUMENT BANK	ACCOUNT NUMBER	DESCRIPTION 1	PROJECT	DEBIT AMOUNT	CREDIT AMOUNT
DESCRIPTION 2		TYPE	WORK ORDER	JOB# FACILITIES ID			
100	12/27/2023	LANDFILL	530-0000-226.00-00	CORRECTIVE ACTION PLAN		106,902.00	
200	12/27/2023	LANDFILL	530-0000-457.50-01	CORRECTIVE ACTION PLAN			106,902.00

GROUP TOTALS

COUNT: 2  
DEBITS: 106,902.00  
CREDITS: 106,902.00



GROUP NUMBER : 08453 CORRECTIVE ACTION PLAN  
ACCOUNTING PERIOD: 06/2024  
GROUP USER ID : RCORONA  
GROUP CREATED BY : RCORONA  
GROUP UPDATED BY : RCORONA

TRANS NO	TRANS DATE	DOCUMENT BANK	ACCOUNT NUMBER	DESCRIPTION 1	PROJECT	TRANSFER IN	TRANSFER OUT
DESCRIPTION 2		TYPE	WORK ORDER	JOB# FACILITIES ID			
100	12/27/2023	LANDFILL	1	531-0000-381.70-99	CORRECTIVE ACTION	106,902.00	
		INTR					
200	12/27/2023	LANDFILL	1	539-0000-497.70-99	CORRECTIVE ACTION		106,902.00
		INTR					

GROUP TOTALS

COUNT: 2  
TRANSFER IN: 106,902.00  
TRANSFER OUT: 106,902.00