

ID:

1567791

This ID is read by a scanner.
Do not mark.

PreIndex Coversheet



ATTACH TO DOCUMENT AND SEND TO THE APPROPRIATE DOCUMENT MANAGEMENT CENTER

Submittal Data

Catalog **Solid Waste**
 Profile **Fiscal**
 County **VOLUSIA**
 District **CD**
 Facility-Site ID **27539 - PLYMOUTH AVE.LANDFILL - CLASS I , III**
 Document Date **09-05-2002**
 Received Date **09-10-2002**
 Document Type **COST ESTIMATE RELATED**
 Contractor ID
 Facility Type **CLASS I LANDFILL (100)**
 Application Number
 Permit Number
 Invoice Number
 FLAIR Contract Number
 Document Subject **Cost Estimate**

<input type="checkbox"/> Double Sided	<input type="checkbox"/> Oversized Pages	Prepped By _____
<input type="checkbox"/> Data Sheet	<input type="checkbox"/> Color Pages	Scanned By _____
<input type="checkbox"/> Shade Seals	<input type="checkbox"/> Greyscale Pages	QC By _____
Page Count _____		Indexed By _____
Comments:		QA By _____
Created By _____		Date 9/23/15

owete_d

CI

Memorandum

Florida Department Of
Environmental Protection

CENTRAL DISTRICT

RECEIVED

SEP 10 2002

Solid Waste Section

TO: Financial Coordinator
Solid Waste Section
MS-4565
Division of Waste Management
OCD-SW-02-0346

FROM: James N. Bradner, P.E.
Program Manager
Solid and Hazardous Waste

DATE: September 5, 2002

SUBJECT: Volusia County – SW
Tomoka Landfill - North Cell, Class I
Tomoka Landfill - South Cell, Class I
Tomoka Landfill - Class III
Plymouth Avenue Landfill
Review of Closure/Long-Term Care Cost Estimates

We have reviewed the enclosed closure and long-term care cost estimate submitted August 30, 2002, for the Tomoka Landfill - North Cell, and believe that it is adequate for the site at this time.

The closure cost estimates for the Tomoka Landfill - South Cell, Class III Landfill and Plymouth Avenue Landfill are inflation adjusted.

Please feel free to contact me if you need any additional information.

JNB/gc/ew

Enclosure

cc: Frank Hornbrook – DEP – Tallahassee – MS-4565



2301 Maitland Center Parkway, Suite 300
Maitland, Florida 32751
tel: 407 660-2552
fax: 407 875-1161

RECEIVED

SEP 10 2002

Solid Waste Section

August 27, 2002

Mr. James Bradner, P.E.
Program Manager, Solid Waste Section
FDEP
3319 Maguire Boulevard, Suite 232
Orlando, FL 32803-3767



Subject: Volusia County Tomoka Landfill
Class I Landfill, Operation Permit No. SO64-291432
Class III Landfill, Operation Permit No. SC64-0078767-007
Plymouth Landfill
FY 01-02 Financial Assurance Reporting – Cost Estimates

Dear Mr. Bradner:

This letter transmits two copies of the financial assurance documentation with Cost Estimates for the subject facilities as required by Chapters 62-701.630 and 62-701.730 of the Florida Administrative Code. The time period covered by the attachment is for Fiscal Year 2001-2002, which starts on October 1 and ends on September 30. The attachment includes pages detailing the

- Estimated Closing cost and Long Term Care for the Class I North Cell.
- Closing Costs and Long Term Care Costs increased by this years inflation of 2% for:
 - Class I South Cell
 - Class III Landfill
 - Plymouth Landfill (already closed)



RECEIVED

SEP 10 2002

Mr. James Bradner, P.E.
August 27, 2002
Page 2

Solid Waste Section

Should you have questions regarding the attachment, please call me at 407-660-6306.

Very truly yours,

John G. Ladner, P.E.
CAMP DRESSER & McKEE INC.

JGL/arp

Attachment

C: Josef Grusauskas, Director, Volusia County Solid Waste (w/attachment)
Patrick McCormack, Volusia County Solid Waste (w/attachment)
Richard Garrity, Volusia County Finance (w/attachment)
Charles J. Voss, CDM, Orlando (w/attachment)

File: 6122-36696 /E-131/DN 6000



Florida Department of Environmental Protection
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

DEP Form # 62-701.900(28)
Form Title Financial Assurance Cost Estimate Form
Effective Date 05-27-01
DEP Application No. _____
(Filled by DEP)

FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: August 27, 2002 Date of DEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: Tomoka Farms Road LF North Cell -- Class I WACS or GMSID #: _____

Permit / Application No.: S064-291432 Expiration Date: 9/8/02

Facility Address: 1990 Tomoka Farms Road, Daytona Beach, FL 32128

Permittee: Volusia County

Mailing Address: 3151 E. New York Avenue, DeLand, FL 32724

Latitude: 29-8-10 Longitude: 81-06-06 or UTM: _____

Solid Waste Disposal Units Included in Estimate:

Phase / Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
North Cell	38.2	6/25/99	5 years
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

RECEIVED
SEP 10 2002
Solid Waste Section

Total Landfill Acreage included in this estimate. 38.2 Closure 38.2 Long-Term Care

Type of landfill: Class I _____ Class III _____ C&D Debris

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

_____ Letter of Credit* _____ Insurance Certificate
 _____ Performance Bond* Escrow Account
 _____ Guaranty Bond* _____ Trust Fund Agreement

*Indicates mechanisms that require use of a Standby Trust Fund Agreement

Northwest District
160 Governmental Center
Pensacola, FL 32501-5794
850-595-8360

Northeast District
7825 Baymeadows Way, Ste. B200
Jacksonville, FL 32256-7590
904-448-4300

Central District
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
407-894-7555

Southwest District
3804 Coconut Palm Dr.
Tampa, FL 33619
813-744-6100

South District
2295 Victoria Ave., Ste. 364
Fort Myers, FL 33901-3881
941-332-6975

Southeast District
400 North Congress Ave.
West Palm Beach, FL 33401
561-681-6600

III. ESTIMATE ADJUSTMENT

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate adjustment below.

(a) Inflation Factor Adjustment

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste Financial Coordinator at (850)-488-0300.

This adjustment is based on the Department approved closure cost estimate dated: _____

Latest Department Approved Closure Cost Estimate:	X	Current Year Inflation Factor	=	Inflation Adjusted Closure Cost Estimate:
_____		_____		\$0.00

This adjustment is based on the Department approved long-term care cost estimate dated: _____

Latest Department Approved Annual Long-Term Care Cost Estimate:	X	Current Year Inflation Factor	=	Inflation Adjusted Annual Long-Term Care Cost Estimate:
_____		_____		\$0.00


Number of Years of Long Term Care Remaining: _____ X

Inflation Adjusted Long-Term Care Cost Estimate: _____ = 0.00

(b) Recalculate Estimates (see section V)

IV. CERTIFICATION BY ENGINEER

This is to certify that the Financial Assurance Cost Estimates pertaining to the engineering features of the this solid waste management facility have been examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.



 Signature of Engineer

John G. Ladner

 Name & Title (please type)

037969

 Florida Registration Number (affix seal) & Date

2301 Maitland Ctr. Pkwy., #300

 Mailing Address

Maitland, FL 32751 (407)660-2552

 Telephone Number



 Signature of Owner/Operator

Josef F. Grusauskas, Director

 Name & Title (please type)

(386) 943-7889

 Telephone Number

V. RECALCULATE ESTIMATED CLOSING COST

For the time period in the landfill operation when the extent and manner of its operation makes closing **most expensive**.

**** Third Party Estimate / Quote must be provided for each item**

**** Costs must be for a third party providing all material and labor**

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
1. Proposed Monitoring Wells (Do not include wells already in existence.)				
	EA	0	\$0.00	\$0.00
2. Slope and Fill (bedding layer between waste and barrier layer):				
Excavation	CY	0	\$0.00	\$0.00
Placement and Spreading	CY	61,630	\$2.37	\$146,063.10
Compaction	CY	0	\$0.00	\$0.00
Off-Site Material	CY	0	\$0.00	\$0.00
Delivery	CY	0	\$0.00	\$0.00
Subtotal Slope and Fill:				\$146,063.10
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY	0	\$0.00	\$0.00
Synthetics - 40 mil	SY	184,890	\$3.67	\$678,546.30
Synthetics - GCL	SY	0	\$0.00	\$0.00
Synthetics - Geonet	SY	0	\$0.00	\$0.00
Synthetics - Other	SY	0	\$0.00	\$0.00
Subtotal Barrier Layer Cover:				\$678,546.30
4. Top Soil Cover:				
Off-Site Material	CY	123,260	\$2.37	\$292,126.20
Delivery	CY	0	\$0.00	\$0.00
Spread	CY	0	\$0.00	\$0.00
Subtotal Top Soil Cover:				\$292,126.20

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
5. Vegetative Layer				
Sodding	SY	0	\$0.00	\$0.00
Hydroseeding	AC	38	\$1,800.00	\$68,760.00
Fertilizer	AC	0	\$0.00	\$0.00
Mulch	AC	0	\$0.00	\$0.00
Other	SY	0	\$0.00	\$0.00
Subtotal Vegetative Layer:				\$68,760.00
6. Stormwater Control System:				
Earthwork	CY	0	\$0.00	\$0.00
Grading	SY	0	\$0.00	\$0.00
Piping	LF	4,220	\$36.00	\$151,920.00
Ditches	LF	0	\$0.00	\$0.00
Berms	LF	0	\$0.00	\$0.00
Control Structures	EA	61	\$550.00	\$33,550.00
Other	LS	0	\$0.00	\$0.00
Subtotal Stormwater Controls:				\$185,470.00
7. Gas Controls: Passive				
Wells	EA	24	\$1,840.00	\$44,160.00
Pipe and Fittings	LF	0	\$0.00	\$0.00
Monitoring Probes	EA	0	\$0.00	\$0.00
NSPS/Title V requirements	LS	0	\$0.00	\$0.00
Subtotal Passive Gas Control:				\$44,160.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
8. Gas Control: Active Extraction				
Traps	EA	0	\$0.00	\$0.00
Sump	EA	0	\$0.00	\$0.00
Flare Assembly	EA	0	\$0.00	\$0.00
Flame Arrestor	EA	0	\$0.00	\$0.00
Mist Eliminator	EA	0	\$0.00	\$0.00
Flow Meter	EA	0	\$0.00	\$0.00
Blowers	EA	0	\$0.00	\$0.00
Collection System	LF	0	\$0.00	\$0.00
Other (describe)		0	\$0.00	\$0.00
Subtotal Active Gas Extraction:				\$0.00
9. Security System:				
Fencing	LF	0	\$0.00	\$0.00
Gate(s)	EA	0	\$0.00	\$0.00
Sign(s)	EA	0	\$0.00	\$0.00
Subtotal Security System:				\$0.00
10. Engineering:				
Closure Plan report	LS			\$26,450.00
Certified Engineer	LS			\$17,800.00
NSPS/Title V Air Permit	LS			\$0.00
Final Survey	LS			\$5,000.00
Certification of Closure	LS			\$19,150.00
Other (detail)				\$0.00
Subtotal Engineering:				\$68,400.00

11. Professional Services

	<u>Contract Management</u>		<u>Quality Assurance</u>		<u>Total</u>
	<u>Hours</u>	<u>LS</u>	<u>Hours</u>	<u>LS</u>	
P.E. Supervisor		<u>\$3,150.00</u>		<u>\$5,700.00</u>	<u>\$8,850.00</u>
On-Site Engineer		<u>\$4,280.00</u>		<u>\$4,280.00</u>	<u>\$8,560.00</u>
Office Engineer		<u>14,600.0</u>		<u>\$9,320.00</u>	<u>\$23,920.00</u>
On-Site Technician		<u>\$7,100.00</u>		<u>16,520.0</u>	<u>\$23,620.00</u>
Other (explain)					<u>\$0.00</u>
DESCRIPTION					UNIT
QUANTITY					UNIT COST
TOTAL					
Quality Assurance Testing		LS		<u>17,730.0</u>	<u>\$0.00</u>
Subtotal Professional Services:					<u>\$64,950.00</u>

Subtotal of 1-11 Above: **\$1,548,475.60**

12. Contingency

% of Total (example. enter .1 for 10%)

10%

Closing Cost Subtotal: **1,703,323.16**

13. Site Specific Costs (explain)

<u>Mobilization</u>	<u>\$0.00</u>
<u>Waste Tire Facility</u>	<u>\$3,000.00</u>
<u>Materials Recovery Facility</u>	<u>\$0.00</u>
<u>Special Wastes</u>	<u>\$0.00</u>
<u>Leachate Management System Modification</u>	<u>\$0.00</u>
<u>Other</u>	<u>\$10,000.00</u>
<hr/>	
Subtotal Site Specific Costs:	<u>\$13,000.00</u>

TOTAL CLOSING COSTS **\$1,716,323.16**

VI. ANNUAL COST FOR LONG-TERM CARE

(Check Term Length)

_____ 5 Years _____ 20 Years 30 Years _____ Other

See 62-701.600(1)a.1., 62-701.620(1), 62-701.630(3)a. and 62-701.730(11)b. F.A.C. for required term length. For landfills certified closed and Department accepted, enter the remaining long-term care length as "Other" and provide years remaining.

**** Third Party Estimate / Quote must be provided for each item
 ** Costs must be for a third party providing all material and labor**

All items must be addressed. Attach a detailed explanation for all items marked not applicable (N/A)

Description	Sampling Frequency (events/yr.)	Number of Wells	\$ / Well / Event	\$ / Year
1. Groundwater Monitoring (62-701.510(6), and (8)(a))				
Monthly	12	0	\$0.00	\$0.00
Quarterly	4	0	\$0.00	\$0.00
Semi-Annual	2	0	\$0.00	\$0.00
Annual	1	0	\$0.00	\$0.00
Subtotal Groundwater Monitoring:				\$0.00
2. Surface Water Monitoring (62-701.510(4), and (8)(b))				
Monthly	12	0	\$0.00	\$0.00
Quarterly	4	0	\$0.00	\$0.00
Semi-Annual	2	0	\$0.00	\$0.00
Annual	1	0	\$0.00	\$0.00
Subtotal Surface Water Monitoring:				\$0.00
3. Gas Monitoring				
Monthly	12	0	\$0.00	\$0.00
Quarterly	4	0	\$0.00	\$0.00
Semi-Annual	2	0	\$0.00	\$0.00
Annual	1	4	\$500.00	\$2,000.00
Subtotal Gas Monitoring:				\$2,000.00

Description	Sampling Frequency (events/yr.)	Number of Locations	\$/Location/Event	\$ / Year
4. Leachate Monitoring (62-701.510(5), (6)(b) and 62-701.510(8)(c))				
Monthly	12	0	\$0.00	\$0.00
Quarterly	4	0	\$0.00	\$0.00
Semi-Annual	2	0	\$0.00	\$0.00
Annual	1	0	\$0.00	\$0.00
Other	0	0	\$0.00	\$0.00
Subtotal Leachate Monitoring:				\$0.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
-------------	------	----------	-----------	-------------

5. Leachate Collection/Treatment Systems Maintenance

Maintenance

Collection Pipes	LF	0	\$0.00	\$0.00
Sumps, Traps	EA	0	\$0.00	\$0.00
Lift Stations	EA	1	\$10,000.00	\$10,000.00
Cleaning	LS	0	\$0.00	\$0.00
Tanks	EA	0	\$0.00	\$0.00

Impoundments

Liner Repair	SY	0	\$0.00	\$0.00
Sludge Removal	CY	0	\$0.00	\$0.00

Aeration Systems

Floating Aerators	EA	0	\$0.00	\$0.00
Spray Aerators	EA	0	\$0.00	\$0.00

Disposal

Off-site (Include Transportation and Disposal)	1000 gallon	0	0	\$0.00
				\$10,000.00

6. Leachate Collection/Treatment Systems Operation

Operation		Hours	\$/Hour	Total
P.E. Supervisor	HR	0	\$0.00	\$0.00
On-Site Engineer	HR	0	\$0.00	\$0.00
Office Engineer	HR	0	\$0.00	\$0.00
OnSite Technician	HR	0	\$0.00	\$0.00
Materials	LS			\$0.00
Subtotal Leachate Collection/Treatment System Maintenance & Operation:				\$0.00

7. Maintenance of Groundwater Monitoring Wells

Monitoring Wells	LF	0	\$0.00	\$0.00
Replacement	EA	1	\$620.00	\$620.00
Abandonment	EA	0	\$0.00	\$0.00
Subtotal Groundwater Monitoring Well Maintenance:				\$620.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
-------------	------	----------	-----------	-------------

8. Gas System Maintenance

Piping, Vents	LF	2	\$210.00	\$420.00
Blowers	EA	0	\$0.00	\$0.00
Flaring Units	EA	0	\$0.00	\$0.00
Meters, Valves	EA	0	\$0.00	\$0.00
Compressors	EA	0	\$0.00	\$0.00
Flame Arrestors	EA	0	\$0.00	\$0.00
Operation	LS			\$0.00
SubTotal Gas System:				\$420.00

9. Landscape

Mowing	AC	38	\$310.00	\$11,842.00
Fertilizer	AC	0	\$0.00	\$0.00
Subtotal Landscape Maintenance:				\$11,842.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
10. Erosion Control & Cover Maintenance				
Sodding	SY	4,000	\$2.05	\$8,200.00
Regrading	AC	0	\$0.00	\$0.00
Liner Repair	SY	20	\$100.00	\$2,000.00
Clay	CY	0	\$0.00	\$0.00
Subtotal Erosion Control and Cover Maintenance:				\$10,200.00
11. Storm Water Management System Maintenance				
Conveyance Maintenance	LS			\$5,100.00
Subtotal Storm Water System Maintenance:				\$5,100.00
12. Security System Maintenance				
Fences	LF	0	\$0.00	\$0.00
Gate(s)	EA	0	\$0.00	\$0.00
Sign(s)	EA	0	\$0.00	\$0.00
Subtotal Security System:				\$0.00
13. Utilities	LS			\$0.00
14. Administrative				
		Hours	\$/Hour	Total
P.E. Supervisor	HR	0	\$0.00	\$0.00
On-Site Engineer	HR	0	\$0.00	\$0.00
Office Engineer	HR	0	\$0.00	\$0.00
OnSite Technician	HR	0	\$0.00	\$0.00
Other (explain)		0	\$0.00	\$0.00
Subtotal Administrative:				\$0.00
15. Contingency	% of Total			10%
	\$40,182.00	Subtotal Contingency:		\$4,018.20

16. Site Specific Costs (explain)

UNIT COST

_____	LS	_____
_____	LS	_____
_____	LS	_____

ANNUAL LONG-TERM CARE COST (\$/Year):

\$44,200.20

NUMBER OF YEARS OF LONG-TERM CARE

30.00

TOTAL LONG-TERM CARE COST (\$)

\$1,326,006.00