



Guerra Development Corporation

Civil & Structural Engineering

March 21, 2008

0307-09.ltr

Mr. F. Thomas Lubozynski, P.E.
Waste Program Administrator, Central District, DEP
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

RECEIVED
MAR 24 2008
DEP Central Dist.

SUBJECT: Friends Recycling [SO42-0019600-005]

JN-0307

Dear Mr. Lubozynski,

Enclosed please find the Financial Assurance Cost Estimate form for the above project.

Please feel free to contact me at (352) 629-8060 or via email at jcg@guerracorp.net.

Sincerely,

Juan C. Guerra, P.E.
President
Guerra Development Corporation
(352) 629-8060 Ph
(352) 629-4379 Fx
guerracorp@att.net

encl.

copies: Mr. Frank Hornbrook, DEP



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: 3/12/08

Date of DEP Approval: _____

RECEIVED
MAR 24 2008
DEP Central Dist.

I. GENERAL INFORMATION:

Facility Name: Friends Recycling, LLC WACS or GMSID #: WACS 00021012

Permit / Application No.: S042-0019600-005 Expiration Date: 9-07

Facility Address: 2350 NW 27th Avenue. Ocala, FL 34475

Permittee: Friends Recycling, LLC

Mailing Address: 2350 NW 27th Avenue. Ocala, FL 34475

Latitude: 29.12.30 Longitude: 82.10.30 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
Cell 1	14.5	1980	32 yr
Cell 2	12.3	2005	16 yr

Total Landfill Acreage included in this estimate. 26.8 Closure 26.8 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
_____ Surety Bond* _____ Escrow Account
_____ Trust Fund Agreement _____ Financial Test

*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)-245-8732.

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

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

Juan C. Guerra

Signature of Engineer

Juan C. Guerra, P.E., President

Name & Title (please type)

41000

Florida Registration Number (affix seal) & Date

2817 NE 3rd Street, Ocala, FL 34470

Mailing Address

(352) 629-8060

Telephone Number

Gerald Lourenco

Signature of Owner/Operator

Gerald Lourenco, Operating Manager

Name & Title (please type)

(352) 266-9497

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	1	\$5,750.00	\$5,750.00
2. Slope and Fill (bedding layer between waste and barrier layer):				
Excavation	CY			\$0.00
Placement and Spreading	CY			\$0.00
Compaction	CY			\$0.00
Off-Site Material	CY			\$0.00
Delivery	CY			\$0.00
Subtotal Slope and Fill:				\$0.00
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY			\$0.00
Synthetics - 40 mil	SY			\$0.00
Synthetics - GCL	SY			\$0.00
Synthetics - Geonet	SY			\$0.00
Synthetics - Other	SY			\$0.00
Subtotal Barrier Layer Cover:				\$0.00
4. Top Soil Cover:				
Off-Site Material	CY	60,466	\$2.50	\$151,165.00
Delivery	CY	86,356	\$1.87	\$161,485.72
Spread	CY	86,356	\$0.75	\$64,767.00
Subtotal Top Soil Cover:				\$377,417.72

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
5. Vegetative Layer				
Sodding	SY	101,958	\$1.75	\$178,426.50
Hydroseeding	AC	12	\$2,750.00	\$33,000.00
Fertilizer	AC	12	\$875.00	\$10,500.00
Mulch	AC			\$0.00
Other	SY			\$0.00
Subtotal Vegetative Layer:				\$221,926.50
6. Stormwater Control System:				
Earthwork	CY	0	\$1.50	\$0.00
Grading	SY			\$0.00
Piping	LF	2,020	\$25.00	\$50,500.00
Ditches	LF	4,470	\$8.75	\$39,112.50
Berms	LF			\$0.00
Control Structures	EA	21	\$1,500.00	\$31,500.00
Other	LS			\$0.00
Subtotal Stormwater Controls:				\$121,112.50
7. Gas Controls: Passive				
Wells	EA			\$0.00
Pipe and Fittings	LF			\$0.00
Monitoring Probes	EA			\$0.00
NSPS/Title V requirements	LS			\$0.00
Subtotal Passive Gas Control:				\$0.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
8. Gas Control: Active Extraction				
Traps	EA			\$0.00
Sump	EA			\$0.00
Flare Assembly	EA			\$0.00
Flame Arrestor	EA			\$0.00
Mist Eliminator	EA			\$0.00
Flow Meter	EA			\$0.00
Blowers	EA			\$0.00
Collection System	LF			\$0.00
Other (describe)				\$0.00
Subtotal Active Gas Extraction:				\$0.00
9. Security System:				
Fencing	LF	1,400	\$12.00	\$16,800.00
Gate(s)	EA	1	\$500.00	\$500.00
Sign(s)	EA	1	\$500.00	\$500.00
Subtotal Security System:				\$17,800.00
10. Engineering:				
Closure Plan report	LS			\$7,500.00
Certified Engineer	LS			\$2,500.00
NSPS/Title V Air Permit	LS			\$0.00
Final Survey	LS			\$7,500.00
Certification of Closure	LS			\$2,500.00
Other (detail)				
Subtotal Engineering:				\$20,000.00

11. Professional Services

	Contract Management		Quality Assurance		Total
	Hours	LS	Hours	LS	
P.E. Supervisor		\$2,500.00		\$500.00	\$3,000.00
On-Site Engineer		\$5,000.00			\$5,000.00
Office Engineer		\$2,500.00		\$2,500.00	\$5,000.00
On-Site Technician		\$2,500.00		\$2,500.00	\$5,000.00
Other (explain)					\$0.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
Quality Assurance Testing	LS	1	\$7,500.00	\$7,500.00

Subtotal Professional Services: \$25,500.00

Subtotal of 1-11 Above: \$789,506.72

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

Closing Cost Subtotal: 868,457.39

13. Site Specific Costs (explain)

Mobilization	\$5,000.00
Waste Tire Facility	\$0.00
Materials Recovery Facility	\$0.00
Special Wastes	\$0.00
Leachate Management System Modification	\$0.00
Other Relocate waste	\$229,300.00

Subtotal Site Specific Costs: \$234,300.00

TOTAL CLOSING COSTS **\$1,102,757.39**

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			\$0.00
Quarterly	4			\$0.00
Semi-Annual	2	8	\$1,500.00	\$24,000.00
Annual	1			\$0.00
Subtotal Groundwater Monitoring:				\$24,000.00
2. Surface Water Monitoring (62-701.510(4), and (8)(b))				
Monthly	12			\$0.00
Quarterly	4			\$0.00
Semi-Annual	2			\$0.00
Annual	1			\$0.00
Subtotal Surface Water Monitoring:				\$0.00
3. Gas Monitoring				
Monthly	12			\$0.00
Quarterly	4			\$0.00
Semi-Annual	2			\$0.00
Annual	1			\$0.00
Subtotal Gas Monitoring:				\$0.00

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			\$0.00
Quarterly	4			\$0.00
Semi-Annual	2			\$0.00
Annual	1			\$0.00
Other				\$0.00
Subtotal Leachate Monitoring:				\$0.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
5. Leachate Collection/Treatment Systems Maintenance				
Maintenance				
Collection Pipes	LF			\$0.00
Sumps, Traps	EA			\$0.00
Lift Stations	EA			\$0.00
Cleaning	LS			\$0.00
Tanks	EA			\$0.00
Impoundments				
Liner Repair	SY			\$0.00
Sludge Removal	CY			\$0.00
Aeration Systems	CY			\$0.00
Floating Aerators	EA			\$0.00
Spray Aerators	EA			\$0.00
Disposal				
Off-site (Include Transportation and Disposal)	1000 gallon			\$0.00
				\$0.00

6. Leachate Collection/Treatment Systems Operation

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

7. Maintenance of Groundwater Monitoring Wells

Monitoring Wells	LF			\$0.00
Replacement	EA	100	\$50.00	\$5,000.00
Abandonment	EA	25	\$50.00	\$1,250.00
Subtotal Groundwater Monitoring Well Maintenance:				\$6,250.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
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8. Gas System Maintenance

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

9. Landscape

Mowing	AC	35	\$100.00	\$3,500.00
Fertilizer	AC	20	\$150.00	\$3,000.00
Subtotal Landscape Maintenance:				\$6,500.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
10. Erosion Control & Cover Maintenance				
Sodding	SY	1,000	\$1.75	\$1,750.00
Regrading	AC	5	\$1,150.00	\$5,750.00
Liner Repair	SY			\$0.00
Clay	CY			\$0.00
Subtotal Erosion Control and Cover Maintenance:				\$7,500.00
11. Storm Water Management System Maintenance				
Conveyance Maintenance	LS			\$5,000.00
Subtotal Storm Water System Maintenance:				\$5,000.00
12. Security System Maintenance				
Fences	LF	200	\$10.00	\$2,000.00
Gate(s)	EA			\$0.00
Sign(s)	EA			\$0.00
Subtotal Security System:				\$2,000.00
13. Utilities	LS			\$500.00
14. Administrative				
		Hours	\$/Hour	Total
P.E. Supervisor	HR	6	\$120.00	\$720.00
On-Site Engineer	HR	10	\$100.00	\$1,000.00
Office Engineer	HR	20	\$80.00	\$1,600.00
OnSite Technician	HR	20	\$60.00	\$1,200.00
Other (explain)				\$0.00
Subtotal Administrative:				\$4,520.00
15. Contingency	% of Total			10%
	\$56,270.00	Subtotal Contingency:		\$5,627.00

16. Site Specific Costs (explain)

UNIT COST

LS

LS

LS

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

\$61,897.00

NUMBER OF YEARS OF LONG-TERM CARE

5.00

TOTAL LONG-TERM CARE COST (\$)

\$309,485.00

Attachment to Financial Assurance Cost Estimate
Friends Recycling - Marion County Florida
March 20, 2008

V. CLOSING COSTS - EXPLANATION

1. Proposed Monitoring Wells: Replace one well.

4. Top Soil Cover:

Sloped area = 669,446 sf (slopes and benches)

Top area = 496,366 sf

Total area = 1,165,812 sf = 129534 sy

Cover depth = 2 ft

Cover volume = 2,331,624 cf = 86,356 cy

DRA At = 300,776 sf

DRA Ab = 258,432 sf

DRA Aa = 279,604 sf

DRA D = 5.5 ft

DRA D net = 5.0 ft (lost to clearing)

DRA V = 1,398,020 cf = 51,778 cy

DRA usable soil for cover (50% per boring) = 25,889 cy

Off-site material = 86,356 - 25,889 = 60,466 cy

Delivery (on-site) = 25,889 cy @ \$1.00/cy

Delivery (off-site) = 60,466 cy @ \$2.25/cy

Delivery Net = 86,356 cy @ \$1.87/cy

Spread = 86,356 cy @ \$0.75/cy

5. Vegetative Cover:

Sodding = Slopes, Benches and 50% of top = 669,446 + (0.5x496,366) = 917,629 sf = 101958 sy = 21.1 ac

Hydroseeding = 50% top+disturbed areas = 250,000 + 255,000 = 505,000 sf = 11.6 ac

Total 32.7 ac

6. Stormwater:

Earthwork = 51,778 cy. This cost is not used because the cost of relocating the waste outside of well setbacks is included. If a third party has to relocate the waste, that means the pit was not filled, which means that the volume provided by the DRA is not needed.

Piping = This cost was included because runoff still has to be routed to the pit.

9. Security System:

The security system is passive and it consists of fences and gates.

Fencing = The length shown is for fencing not constructed yet. 1,400 lf

13. Site Specific:

Other = Cost of relocating waste from well setbacks

2 laborers with 2 machines for 8 months

2 laborers at \$1,800/wk x 8 months = \$14,400 x 2 = \$28,800

2 machines @ 7,500/month x 8 months = \$60,000 = \$120,000

Fuel = 11,500 gal @ \$3.50/gal = \$40,250 x 2 = \$80,500

Total = \$229,300

Juan

Prepared by Juan C. Guerra, P.E.

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