

Tift, Rachel

From: Tift, Rachel
Sent: Thursday, August 9, 2018 3:59 PM
To: 'Henry.Norris@citrusbocc.com'
Cc: Financial Assurance Working Group; Morgan, Steve; Steven Tafuni (Steven.Tafuni@dep.state.fl.us); Borderieux, Scott; Freedenberg, Henry; 'CSawyer@jonesedmunds.com'; 'RBhula@jonesedmunds.com'
Subject: 2018 Cost Estimate Approval, Citrus County Class I Central Landfill, WACS ID No. 39859
Attachments: 2018-08-08-LTR-FDEP-Citrus-2018FACE.pdf

Dear Mr. Norris:

This correspondence is to acknowledge receipt of the revised and inflation-adjusted cost estimates, dated August 8, 2018 and received August 9, 2018, for closure and long-term care of Citrus County Class I Central Landfill. The cost estimates received August 9, 2018, (total for closing \$6,115,779.46 and long-term care \$377,719.42/year x 30 years = \$11,331,582.67) are **APPROVED for 2018**. The approved cost estimates are for closing 32 existing acres and long-term care for 92 acres. The next annual update (revised or inflation-adjusted estimate) is due no later than **September 1, 2019**.

A copy of these estimates is forwarded, via this email, to the Solid Waste Financial Coordinator at Financial.Assurance.Working.Group@dep.state.fl.us. Financial assurance documents can be sent to: Solid Waste Section, FDEP, 2600 Blair Stone Road MS 4548, Tallahassee, Florida 32399-2407. Please work with the coordinator directly to assess the facility's compliance with the funding mechanism requirements of Rule 62-701.630, F.A.C.

Further information about Solid Waste Financial Assurance can be found at the Department's website at: <https://floridadep.gov/waste/permitting-compliance-assistance/content/solid-waste-financial-assurance>.

Best Regards,

Rachel Tift
Engineering Specialist II
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway, Suite 101
Temple Terrace, FL 33637-0926
Rachel.Tift@floridadep.gov
Direct line: 813.470.5755

Permitting Consistency Initiative: The Florida Department of Environmental Protection is committed to providing efficient, consistent and quality service to the citizens of Florida. In keeping with these objectives, we continue to identify ongoing improvements to our permitting process by standardizing and simplifying our documents.

From: Ruhaani Bhula [<mailto:RBhula@jonesedmunds.com>]
Sent: Thursday, August 09, 2018 9:41 AM
To: Morgan, Steve <Steve.Morgan@dep.state.fl.us>; Financial Assurance Working Group <Financial.Assurance.Working.Group@dep.state.fl.us>
Cc: Carol Sawyer <CSawyer@jonesedmunds.com>; Henry C. Norris <Henry.Norris@citrusbocc.com>; Freedenberg, Henry <Henry.Freedenberg@dep.state.fl.us>
Subject: WACS 39859 - Citrus Co. 2018 Revised Cost Estimate

Dear Steve,

Please find attached the revised Financial Assurance Cost Estimate (FACE) for the Citrus County Central Landfill. The revised documentation was prepared per Specific Condition F.2 of Permit No. 21375-026-SO-MM, issued July 10, 2018.

Please let us know if you have any questions about the attached documentation.

Best Regards,

Ruhaani Bhula, EI

Engineer Intern



p. 352.377.5821 x. 1474

JONESEDMUNDS.COM

730 NE Waldo Road, Gainesville, FL 32641



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August 8, 2018

Steve Morgan
Permitting Manager
Florida Department of Environmental Protection
Southwest District Permitting
13051 N. Telecom Parkway, Suite 101
Temple Terrace, Florida 32637

RE: Citrus County Central Landfill
2018 Updated Financial Assurance Cost Estimate
FDEP Solid Waste Operations Permit No.: 21375-026-SO-MM
Jones Edmunds Project No.: 03860-069-01

Dear Mr. Morgan:

On behalf of the Citrus County Board of County Commissioners, Jones Edmunds is submitting the enclosed financial assurance documentation for the Citrus County Central Landfill. The documentation was prepared in accordance with Specific Conditions F.2.a and F.2.e of Permit No. 21375-026-SO-MM, issued July 10, 2018, and includes an inflation-adjusted closure cost estimate and a recalculated long-term care cost estimate. The estimates were prepared using FDEP Form 62-701.900(28), Florida Administrative Code (FAC).

To meet the requirements of Specific Condition F.2.a, the approved 2017 closure cost estimate (approved October 13, 2017, and December 29, 2017) was adjusted based on FDEP's inflation factor for 2018 of 1.018.

In accordance with Specific Condition F.2.e, the long-term care cost estimate was revised to reflect an increase in the number of groundwater monitoring wells and gas monitoring probes installed at the landfill as documented in the recent Minor Operations Permit Modification Application and reflected in the Minor Modification Permit issued July 10, 2018. The new monitoring wells and gas probes installed at the Citrus County Central Landfill affect the following long-term care cost estimate items:

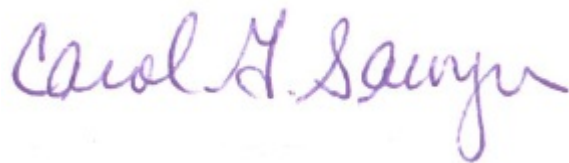
- Item 1 – Groundwater Monitoring:
 - 2016 and 2017 approved estimate was based on 14 groundwater wells.
 - 2018 estimate is based on 16 groundwater wells.

- Item 3 – Gas Monitoring:
 - 2016 and 2017 approved estimate was based on 19 gas probes.
 - 2018 estimate is based on monitoring 30 gas probes and 26 groundwater wells and piezometers for a total of 56 units monitored.

The 30-year long-term care cost estimate was calculated by inflating each individual 2016-approved unit cost (Items 1 through 15), approved on August 30, 2016. The individual 2016 unit costs were inflated twice using the FDEP inflation factor for 2017 and 2018 (i.e. 1.013 and 1.018, respectively).

If you have any questions or comments, please feel free to contact me at (352) 377-5821 or csawyer@jonesedmunds.com.

Sincerely,



Carol G. Sawyer, PE
Project Engineer
730 NE Waldo Road
Gainesville, Florida 32641

M:\03860-CitrusCounty\059-01 GCCS Expansion\Minor SW Permit Mod App\Draft Permit\FACE\Submittal\2018-08-06-LTR-FDEP-Citrus-2018FACE.doc

Enclosures: Financial Assurance Documentation

xc: Henry Norris, Jr., Director, Citrus County Solid Waste

FDEP Financial Coordinator – Solid Waste Section
(Solid.Waste.Financial.Coordinator@dep.state.fl.us)



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(28), F.A.C.
Form Title: Closure Cost Estimating Form For
Solid Waste Facilities
Effective Date: January 6, 2010
Incorporated in Rule 62-701.630(3), F.A.C.

CLOSURE COST ESTIMATING FORM FOR SOLID WASTE FACILITIES

Date of DEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: Citrus County Central Landfill WACS ID: 39859
 Permit Application or Consent Order No.: 21375-026-SO-MM Expiration Date: 8/15/2026
 Facility Address: 230 W. Gulf to Lake Hwy (SR 44) Lecanto, Florida 34461
 Permittee or Owner/Operator: Citrus County Board of County Commissioners
 Mailing Address: PO Box 340, Lecanto, Florida 34460
 Latitude: 28° 51' 7" Longitude: 82° 26' 12"
 Coordinate Method: Google Earth Datum: WGS 84
 Collected by: R.Bhula Company/Affiliation: Jones Edmunds & Associates

Solid Waste Disposal Units Included in Estimate:

Phase / Cell	Acres	Date Unit Began Accepting Waste	Active Life of Unit From Date of Initial Receipt of Waste	If active: Remaining life of unit	If closed: Date last waste received	If closed: Official date of closing
Phase 1	6.8	1991		14		
Phase 2	6	2005				
Phase 3	19.7	2011				
Closed Site	60	1975	Closed	Closed		
Waste Tire 126602-003-WT/02	0.125	NA	on-going	on-going		

Total disposal unit acreage included in this estimate: _____ Closure: 32 Long-Term Care: 92

Facility type: Class I Class III C&D Debris Disposal
 (check all that apply) Other: _____

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check type)

- | | | |
|--|--|--|
| <input type="checkbox"/> Letter of Credit* | <input type="checkbox"/> Insurance Certificate | <input checked="" type="checkbox"/> Escrow Account |
| <input type="checkbox"/> Performance Bond* | <input type="checkbox"/> Financial Test | <input type="checkbox"/> Form 29 (FA Deferral) |
| <input type="checkbox"/> Guarantee Bond* | <input type="checkbox"/> Trust Fund Agreement | |

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

Northwest District
160 Government Center
Pensacola, FL 32502-5794
850-595-8360

Northeast District
7825 Baymeadows Way, Ste. B200
Jacksonville, FL 32256-7590
904-807-3300

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

Southwest District
10351 N. Telecom Pky.
Temple Terrace, FL 33637
813-632-7600

South District
2295 Victoria Ave., Ste. 364
Fort Myers, FL 33901-3881
239-332-6975

Southeast District
400 N. Congress Ave., Ste 200
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, (F.A.C.) 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
(Closure Only)

(b) Recalculated or New Cost Estimates
(Long-Term Care Only)

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 Deflatory by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste website www.dep.state.fl.us/waste/categories/swfr or call the Financial Coordinator at (850) 245-8706.

This adjustment is based on the Department approved closing cost estimate dated:		10/13/2017
Latest Department Approved Closing Cost Estimate:	Current Year Inflation Factor, e.g. 1.02	Inflation Adjusted Closing Cost Estimate:
\$6,007,641.91	×	=
1.018		\$6,115,779.46

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, e.g. 1.02	Inflation Adjusted Annual Long-Term Care Cost Estimate:
	×	=
Number of Years of Long Term Care Remaining:		×
Inflation Adjusted Long-Term Care Cost Estimate:		=

Signature by:	Owner/Operator	Engineer	(check what applies)
Signature		Address	
Name & Title		City, State, Zip Code	
Date		E-Mail Address	
Telephone Number			

IV. ESTIMATED CLOSING COST (check what applies)

Recalculated Cost Estimate **New Facility Cost Estimate**

- Notes: 1. Cost estimates for the time period when the extent and manner of landfill operation makes closing most expensive.
 2. Cost estimate must be certified by a professional engineer.
 3. Cost estimates based on third party suppliers of material, equipment and labor at fair market value.
 4. In some cases, a price quote in support of individual

Description	Unit	Number of Units	Cost / Unit	Total Cost
1. Proposed Monitoring Wells (Do not include wells already in existence.)				
	EA		\$ -	\$ -
Subtotal Proposed Monitoring Wells:				\$ -
2. Slope and Fill (bedding layer between waste and barrier layer):				
Excavation	CY		\$ -	\$ -
Placement and Spreading	CY		\$ -	\$ -
Compaction	CY		\$ -	\$ -
Off-Site Material	CY		\$ -	\$ -
Delivery	CY		\$ -	\$ -
Subtotal Slope and Fill:				\$ -
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY		\$ -	\$ -
Synthetics - 40 mil	SY	-	\$ -	\$ -
Synthetics - GCL	SY		\$ -	\$ -
Synthetics - Geonet Geotextile	SY		\$ -	\$ -
Synthetics - Other (explain)	SY	-	\$ -	\$ -
Geocomposite				
Subtotal Cover Material:				\$ -
4. Top Soil Cover:				
Off-Site Material	CY		\$ -	\$ -
Delivery	CY		\$ -	\$ -
Compaction			\$ -	\$ -
Spread	CY		\$ -	\$ -
Subtotal Top Soil Cover:				\$ -
5. Vegetative Layer:				
Sodding	SY		\$ -	\$ -
Hydroseeding	AC		\$ -	\$ -
Fertilizer	AC		\$ -	\$ -
Mulch	AC		\$ -	\$ -
Other (explain)			\$ -	\$ -
Subtotal Vegetative Layer:				\$ -
6. Stormwater Control System:				
Earthwork	CY		\$ -	\$ -
Grading	SY		\$ -	\$ -
Piping	LF		\$ -	\$ -
Ditches	LF		\$ -	\$ -
Berms	LF		\$ -	\$ -
Control Structures	EA		\$ -	\$ -
Other (explain)	SY		\$ -	\$ -
Geotextile for toe drain			\$ -	\$ -
Subtotal Stormwater Control System:				\$ -

Description	Unit	Number of Units	Cost / Unit	Total Cost
7. Passive Gas Control:				
Wells	EA		\$ -	\$ -
Pipe and Fittings	LF		\$ -	\$ -
Monitoring Probes	EA		\$ -	\$ -
NSPS/Title V Requirements	LS		\$ -	\$ -
Subtotal Passive Gas Control:				\$ -
8. Active Gas Extraction Control:				
Traps	EA		\$ -	\$ -
Sumps	EA		\$ -	\$ -
Flare Assembly	EA		\$ -	\$ -
Flame Arrestor	EA		\$ -	\$ -
Mist Eliminator	EA		\$ -	\$ -
Flow Meter	EA		\$ -	\$ -
Blowers Piping	LF		\$ -	\$ -
Collection System	LS		\$ -	\$ -
Other (explain)	EA		\$ -	\$ -
Wellheads				
Subtotal Active Gas Extraction:				\$ -
9. Security System:				
Fencing	LF		\$ -	\$ -
Gate(s)	EA		\$ -	\$ -
Sign(s)	EA		\$ -	\$ -
Subtotal Security System:				\$ -
10. Engineering:				
Closure Plan Report	LS		\$ -	\$ -
Certified Engineering Drawings	LS		\$ -	\$ -
NSPS/Title V Air Permit	LS		\$ -	\$ -
Final Survey	LS		\$ -	\$ -
Certification of Closure	LS		\$ -	\$ -
Other (explain)			\$ -	\$ -
Subtotal Engineering:				\$ -

Description	Hours	Cost / Hour	Hours	Cost / Hour	Total Cost
11. Professional Services:					
	<u>Contract Management</u>		<u>Quality Assurance</u>		
P.E. Supervisor		\$ -		\$ -	
On-Site Engineer		\$ -		\$ -	
Office Engineer		\$ -		\$ -	
On-Site Technician		\$ -		\$ -	
Other (explain)		\$ -		\$ -	
Administrative Assistant					
Subtotal Professional Services:					

Description	Unit	Number of Units	Cost / Unit	Total Cost
Quality Assurance Testing	LS			
Subtotal Professional Services:				
Subtotal of 1-11 Above:				
12. Contingency:		% of Subtotal of 1-11 Above		
Subtotal Contingency:				
Estimated Closing Cost Subtotal:				

Description	Total Cost
13. Site-Specific Costs:	
Mobilization	
Waste Tire Facility	
Materials Recovery Facility	
Special Wastes	
Leachate Management System Modification	
Other (explain)	
Bonds and Insurance (2%)	
Subtotal Site Specific Costs:	
TOTAL ESTIMATED CLOSING COSTS (\$):	

V. ANNUAL COST FOR LONG-TERM CARE

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.

(Check Term Length) 5 Years 20 Years 30 Years Other, ____ Years

- Notes: 1. Cost estimates must be certified by a professional engineer.
 2. Cost estimates based on third party suppliers of material, equipment and labor at fair market value.
 3. In some cases, a price quote in support of individual item estimates may be required.

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

Description	Sampling Frequency (Events / Year)	Number of Wells	(Cost / Well) / Event	Annual Cost
1. Groundwater Monitoring [62-701.510(6), and (8)(a)]				
Monthly	12		\$ -	\$ -
Quarterly	4		\$ -	\$ -
Semi-Annual	2	16	\$ 1,886.13	\$ 60,356.06
Annual	1		\$ -	\$ -
Subtotal Groundwater Monitoring:				\$ 60,356.06
2. Surface Water Monitoring [62-701.510(4), and (8)(b)]				
Monthly	12		\$ -	\$ -
Quarterly	4		\$ -	\$ -
Semi-Annual	2		\$ -	\$ -
Annual	1		\$ -	\$ -
Subtotal Surface Water Monitoring:				\$ -
3. Gas Monitoring [62-701.400(10)]				
Monthly	12		\$ -	\$ -
Quarterly	4	56	\$ 742.22	\$ 166,257.36
Semi-Annual	2		\$ -	\$ -
Annual	1		\$ -	\$ -
Subtotal Gas Monitoring:				\$ 166,257.36
4. Leachate Monitoring [62-701.510(5), (6)(b) and 62-701.510(8)c]				
Monthly	12		\$ -	\$ -
Quarterly	4		\$ -	\$ -
Semi-Annual	2		\$ -	\$ -
Annual	1		\$ -	\$ -
Other (explain) _____			\$ -	\$ -
Subtotal Leachate Monitoring:				\$ -

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. Leachate Collection/Treatment Systems Maintenance				
<u>Maintenance</u>				
Collection Pipes	LF		\$ -	\$ -
Sumps, Traps	EA		\$ -	\$ -
Lift Stations	LS		\$ -	\$ -
Cleaning	LS	1	\$ 20,547.34	\$ 20,547.00
Tanks	LS	4	\$ 4,331.18	\$ 17,325.00

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. (continued)				
<u>Impoundments</u>				
Liner Repair	SY		\$ -	\$ -
Sludge Removal	LS		\$ -	\$ -
<u>Aeration Systems</u>				
Floating Aerators	EA		\$ -	\$ -
Spray Aerators	EA		\$ -	\$ -
<u>Disposal</u>				
Off-site (Includes transportation and disposal)	1,000 gallon	432	\$ 8.66	\$ 3,742.00
			Subtotal Leachate Collection / Treatment Systems Maintenance:	\$ 41,614.00
6. Groundwater Monitoring Wells Maintenance				
Monitoring Wells	LF		\$ -	\$ -
Replacement	EA	1	\$ 928.11	\$ 928.00
Abandonment	EA	1	\$ 103.12	\$ 103.00
			Subtotal Groundwater Monitoring Well Maintenance:	\$ 1,031.00
7. Gas System Maintenance				
Piping, Vents	EA	57	\$ 144.37	\$ 8,229.00
Blowers	LS		\$ -	\$ -
Flaring Units	EA	7	\$ 144.37	\$ 1,011.00
Meters, Valves	EA		\$ -	\$ -
Compressors	EA		\$ -	\$ -
Flame Arrestors	EA		\$ -	\$ -
Operation	HR		\$ -	\$ -
			Subtotal Gas System:	\$ 9,240.00
8. Landscape Maintenance				
Mowing	AC	145	\$ 48.51	\$ 7,033.84
Fertilizer	AC		\$ -	\$ -
			Subtotal Landscape Maintenance:	\$ 7,033.84
9. Erosion Control and Cover Maintenance				
Sodding	SY		\$ -	\$ -
Regrading	AC	1	\$ 826.58	\$ 826.58
Liner Repair	SY	1	\$ 2,263.85	\$ 2,263.85
Clay	CY		\$ -	\$ -
			Subtotal Erosion Control and Cover Maintenance:	\$ 3,090.42
10. Storm Water Management System Maintenance				
Conveyance Maintenance	CY	1	\$ 9,605.94	\$ 9,605.94
			Subtotal Storm Water System Maintenance:	\$ 9,605.94
11. Security System Maintenance				
Fences	LS	1	\$ 1,342.15	\$ 1,342.15
Gate(s)	EA		\$ -	\$ -
Sign(s)	EA		\$ -	\$ -
			Subtotal Security System:	\$ 1,342.15

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
12. Utilities	LS		\$ -	\$ -
13. Leachate Collection/Treatment Systems Operation				
<u>Operation</u>				
P.E. Supervisor	HR	96	\$ 180.47	\$ 17,325.00
On-Site Engineer	HR	0	\$ -	\$ -
Office Engineer	HR	32	\$ 118.59	\$ 3,795.00
On-Site Technician	HR	300	\$ 77.34	\$ 23,203.00
Materials	LS	0	\$ -	\$ -
Subtotal Leachate Collection/Treatment System Operation:				\$ 44,323.00
14. Administrative				
P.E. Supervisor	HR	48	\$ 180.47	\$ 8,662.00
On-Site Engineer	HR		\$ -	\$ -
Office Engineer	HR		\$ -	\$ -
Onsite Technician	HR	48	\$ 77.34	\$ 3,712.00
Other _____	HR	48	\$ 72.19	\$ 3,465.00
Subtotal Administrative:				\$ 15,839.00
Subtotal of 1-14 Above:				\$ 359,732.78
15. Contingency	5%	% of Subtotal of 1-14 Above		\$ 17,986.64
Subtotal Contingency:				\$ 17,986.64

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
16 Site-Specific Costs (explain)				
_____	_____	_____	_____	\$ -
_____	_____	_____	_____	\$ -
_____	_____	_____	_____	\$ -
_____	_____	_____	_____	\$ -
Subtotal Site Specific Costs:				\$ -

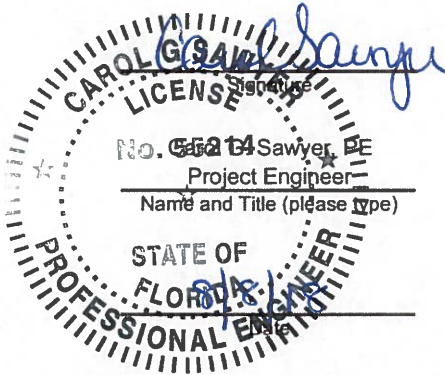
ANNUAL LONG-TERM CARE COST (\$ / Year): \$ 377,719.42

Number of Years of Long-Term Care: 30

TOTAL LONG-TERM CARE COST (\$): \$ 11,331,582.67

VI. CERTIFICATION BY ENGINEER

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



730 NE Waldo Road
Mailing Address

Gainesville, Florida 32641
City, State, Zip Code

csawyer@jonesedmunds.com
E-Mail address (if available)

55214
Florida Registration Number
(please affix seal)

730 NE Waldo Road
Mailing Address

Gainesville, Florida 32641
City, State, Zip Code

csawyer@jonesedmunds.com
E-Mail address (if available)

(352) 377-5821
Telephone Number

VII. SIGNATURE BY OWNER/OPERATOR

E-Mail address (if available) Telephone Number



Henry C. Norris, Jr.
Director Solid Waste
Name and Title (please type)

henry.norris@citrusbocc.com
E-Mail address (if available)

230 W. Gulf to Lake Highway
Mailing Address

Lecanto, FL 34461
City, State, Zip Code

352-527-7670
Telephone Number