

Smith, George

From: Ken Wheeler <Ken.Wheeler@hardeecounty.net>
Sent: Wednesday, June 28, 2017 1:48 PM
To: SWD_Waste
Cc: Tafuni, Steven
Subject: Financial Assurance Closure and Long-Term Care Estimate
Attachments: SKM_C30817062810370.pdf

Steve,

Okay. That's real easy!!

Thank you,
Ken Wheeler PE
Hardee County Solid Waste
685 Airport Road, Wauchula, FL 33873

LEGAL NOTICE REGARDING EMAIL Senate Bill 80 - effective July 1, 2006 Under Florida Law, email addresses are public records. If you do not want your email address released in response to a public-records request, do not send electronic email to this entity. Instead, contact this office by phone or in writing.

**FINANCIAL ASSURANCE CLOSURE AND
LONG-TERM CARE COST ESTIMATE
HARDEE COUNTY LANDFILL**

**PERMIT NO.: 38414-016-SO/01
FACILITY ID NO.: 40612**

Submitted to:

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT**

2600 Blair Stone Road Stop #4500
Tallahassee, Florida 32399-2400

Prepared for:

HARDEE COUNTY SOLID WASTE MANAGEMENT

205 Hanchey Road
Wauchula, FL 33873

Prepared by:

JONES EDMUNDS & ASSOCIATES, INC.

730 NE Waldo Road
Gainesville, Florida 32641

Certificate of Authorization # 1841

June 2017

TABLE OF CONTENTS

TABLE OF CONTENTS.....	I
1.0 OVERVIEW	1
1.1 INTRODUCTION	1
1.2 ASSUMPTIONS.....	1
2.0 LONG-TERM CARE EXPLANATION OF COST ESTIMATES.....	2
2.1 ITEM NO. 1 – GROUNDWATER MONITORING.....	2
2.2 ITEM NO. 2 – SURFACE WATER MONITORING	2
2.3 ITEM NO. 3 – GAS MONITORING	2
2.4 ITEM NO. 4 – LEACHATE MONITORING	2
2.5 ITEM NO. 5 – LEACHATE COLLECTION/TREATMENT SYSTEMS	2
2.6 ITEM NO. 6 – MAINTENANCE OF GROUNDWATER MONITORING WELLS	3
2.7 ITEM NO. 7 – GAS SYSTEM MAINTENANCE.....	3
2.8 ITEM NO. 8 – LANDSCAPE	3
2.9 ITEM NO. 9 – EROSION CONTROL & COVER MAINTENANCE.....	4
2.10 ITEM NO. 10 – STORMWATER MANAGEMENT SYSTEM MAINTENANCE.....	4
2.11 ITEM NO. 11 – SECURITY SYSTEM MAINTENANCE	4
2.12 ITEM NO. 12 – UTILITIES	4
2.13 ITEM NO. 13 – LEACHATE COLLECTION/TREATMENT SYSTEMS OPERATION.....	4
2.14 ITEM NO. 14 – ADMINISTRATIVE.....	5
2.15 ITEM NO. 15 – CONTINGENCY	5
2.16 ITEM NO. 16 – SITE-SPECIFIC COSTS.....	5

EXHIBITS

EXHIBIT R-1	FINANCIAL ASSURANCE COST ESTIMATE FORM
EXHIBIT R-2	BACKUP OF LONG-TERM-CARE UNIT COSTS

1.0 OVERVIEW

1.1 INTRODUCTION

This document presents the estimated long-term care costs for the Hardee County Landfill as required by Rules 62-701.630, FAC and 62-701.730, FAC. Exhibit R-1 provides Financial Assurance Cost Estimate Form 62-701.900(28) showing the detailed cost estimates for long-term care of the Hardee County Class I Landfill. Exhibit R-2 provides backup for the long-term care costs. The following describes how the costs for the estimate of long-term care were obtained. The cost estimates for closure are not updated with this report.

1.2 ASSUMPTIONS

The detailed long-term care cost estimates are based on the following assumptions:

- The unit costs provided with each item are costs from recent bids, FDOT Pay Item 12-Month Moving Averages, and RS Means Heavy Construction Cost Data (www.rsmeansonline.com).
- Item costs that were estimated using the RS Means Heavy Construction Cost Data (www.rsmeansonline.com) are for Tampa, Florida, which is the closest location available in the online edition and is representative of costs for Wachula, Florida.

Table 1.1 defines the abbreviations used in the cost estimate.

Table 1.1 List of Abbreviations			
AC	Acre	KGAL	1,000 Gallons
CF	Cubic foot	LF	Linear foot
CY	Cubic yard	LS	Lump sum
DY	Day	MSF	1,000 square feet
EA	Each	SF	Square foot
GAL	Gallons	SY	Square yard
HR	Hour	YR	Year

2.0 LONG-TERM CARE EXPLANATION OF COST ESTIMATES

These costs are included to provide for the long-term care of the Class I Landfill. The lined class I landfill is 24.8 acres and includes the closed Phase I and active Phase II.

2.1 ITEM NO. 1 – GROUNDWATER MONITORING

The groundwater monitoring system consists of 8 water quality monitoring wells that must be sampled semiannually. Based on Jones Edmunds estimates for the annual sampling, laboratory analyses, and biannual reporting, the cost breakdown is as follows:

Description	Cost/Unit	Source or Reference
Semiannual well sampling	\$1,506.25/well/event	Jones Edmunds estimate based on similar projects.

2.2 ITEM NO. 2 – SURFACE WATER MONITORING

The surface water monitoring system consists of 1 water quality sampling point that must be sampled semiannually. Based on Jones Edmunds estimates for the annual sampling, laboratory analyses, and reporting, the cost breakdown is as follows:

Description	Cost/Unit	Source or Reference
Semiannual sampling	\$2,340/well/event	Jones Edmunds estimate based on similar projects.

2.3 ITEM NO. 3 – GAS MONITORING

The Class I Landfill has 17 perimeter gas monitoring probes and several ambient gas monitoring locations. These probes and ambient locations will continue to be monitored quarterly.

Description	Cost/Unit	Source or Reference
Gas probe monitoring	\$73.53/well/event	Jones Edmunds estimate based on similar projects.

2.4 ITEM NO. 4 – LEACHATE MONITORING

Leachate monitoring is not required at the Hardee County Landfill by FDEP permit. However, the County may have to sample leachate annually in order to dispose of leachate at a wastewater treatment plant.

Description	Cost/Unit	Source or Reference
Leachate testing	\$1,230/event	Jones Edmunds estimate based on similar projects.

2.5 ITEM NO. 5 – LEACHATE COLLECTION/TREATMENT SYSTEMS

Maintenance of the leachate collection and treatment system includes jet cleaning the collection pipes every 5-year permit cycle.

Maintenance of the two leachate storage tanks includes cleaning the interior, painting, and repairing the exterior every 3 years.

The leachate disposal costs include off-site hauling and disposal to the City of Wauchula wastewater treatment plant based on the current contract with a hauling quote from JLC Farms. The amount of leachate is based on the average leachate flow for the last ten years and is approximately 4,200,000 gal/year.

Description	Cost/Unit	Source or Reference
Maintenance – collection pipes	\$37,096/LF	Quote from Florida Jet Clean
Maintenance – tanks	\$19,000/LS	Quote from Florida Jet Clean
Disposal	\$8.60/KGAL	Current disposal contract with City of Wauchula WWTP.
	\$17.50/KGAL	Hauling Quote from JLC Farms

2.6 ITEM NO. 6 – MAINTENANCE OF GROUNDWATER MONITORING WELLS

The cost for this item is based on replacing one groundwater well every 5 years. This includes abandonment and drilling of new well.

Description	Cost/Unit	Source or Reference
Replacement	\$1,927/EA	Huss Quote
Abandonment	\$1,202/EA	Huss Quote

2.7 ITEM NO. 7 – GAS SYSTEM MAINTENANCE

The cost for this item is based on replacing one gas vent every two years. This includes abandonment and drilling of new vent.

Description	Cost/Unit	Source or Reference
Replacement	\$2,767/EA	Huss Quote
Abandonment	\$1,202/EA	Huss Quote

2.8 ITEM NO. 8 – LANDSCAPE

The cost for this item is based on mowing all closed landfills at an estimated frequency of four times a year.

Description	Cost/Unit	Source or Reference
Mowing	\$27.01/AC	RS Means Item 320190194190

2.9 ITEM NO. 9 – EROSION CONTROL & COVER MAINTENANCE

For erosion control and cover maintenance of the cover and/or swales, we assumed that a half acre area would be regraded and sodded every year. Approximately one half acre (2,420 SY) of the landfill area will require maintenance per year. It is assumed that 100 square yards of liner will be repaired per year.

Description	Cost/Unit	Source or Reference
Sodding	\$2.61/SY	FDOT Item 0570 1 2 Sod
Regrading	\$0.76/SY	FDOT Item 0162 1 11 Prepared soil layer, finish soil 6 inches
Liner Repair	\$11.70/SY	RS Means item 334713531200

2.10 ITEM NO. 10 – STORMWATER MANAGEMENT SYSTEM MAINTENANCE

We assumed that the perimeter ditch system (4,800 linear feet) must be cleaned every 5 years. The quantity of material removed is based on 6 inches off the bottom of a 5-foot-wide ditch.

Description	Cost/Unit	Source or Reference
Conveyance maintenance	\$7.39/CY	FDOT Item 0120 4 subsoil excavation

2.11 ITEM NO. 11 – SECURITY SYSTEM MAINTENANCE

Security system maintenance assumes 50 feet per year of fencing repairs annually and a new sign and gate replacement every 5 years.

Description	Cost/Unit	Source or Reference
Fence repairs	\$15.00/LF	FDOT Item 0550 10221
Gate repairs	\$1,092.50/EA	FDOT Item 0550 60224
Sign repairs	\$349.52/EA	FDOT Item 0700 1 11

2.12 ITEM NO. 12 – UTILITIES

We assumed the facility requires approximately \$500 annually for leachate pump utilities (electrical service).

2.13 ITEM NO. 13 – LEACHATE COLLECTION/TREATMENT SYSTEMS OPERATION

This item includes operation labor cost for managing the system and current Jones Edmunds billing rates for a field technician.

2.14 ITEM NO. 14 – ADMINISTRATIVE

This item includes administration labor costs for managing the permitting and reporting requirements. The cost estimate is consistent with current Jones Edmunds labor rates.

2.15 ITEM NO. 15 – CONTINGENCY

The contingency is calculated as 5% of the total costs of Item No. 1 through 14. This number is based on Jones Edmunds engineering judgment and consideration of estimation of expected annual costs.

2.16 ITEM NO. 16 – SITE-SPECIFIC COSTS

There are no additional site-specific costs for the facility.

EXHIBIT R-1

**FINANCIAL ASSURANCE COST ESTIMATE
FORM 62-701.900(28), FAC**



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: Hardee County Landfill WACS ID: 40612
Permit Application or Consent Order No.: 38414-011-SO/01 Expiration Date: 11/8/2033
Facility Address: 685 Airport Road, Wauchula, FL 33873
Permittee or Owner/Operator: Hardee County
Mailing Address: 685 Airport Road, Wauchula, FL 33873
Latitude: 27° 34' 17" Longitude: 81° 46' 58"
Coordinate Method: _____ Datum: NAD 83
Collected by: J. Toms Company/Affiliation: Jones Edmunds

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 I	12.31	NA	NA	NA	10/26/2010	1/3/2012
Phase II Section I	6.29	5/1/2008	2/1/2016	1.5 years	NA	NA
Phase II Section II	6.20	NA	5/1/2038	22 years	NA	NA

Total disposal unit acreage included in this estimate: Closure: NA Long-Term Care: 24.8

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

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check type)

☐ Letter of Credit* ☐ Insurance Certificate ☒ Escrow Account
☐ Performance Bond* ☐ Financial Test ☐ Form 29 (FA Deferral)
☐ Guarantee Bond* ☐ 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.
Tempe 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

II. 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

☒ (b) Recalculated or New Cost Estimates

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 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:

Latest Department Approved Closing Cost Estimate:	Current Year Inflation Factor, e.g. 1.02	Inflation Adjusted Closing Cost Estimate:
_____	_____	_____
	x	=

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:
_____	_____	_____
	x	=
Number of Years of Long Term Care Remaining:		x
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

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	8	\$ 1,506.25	\$ 24,100
Annual	1		\$ -	\$ -
Subtotal Groundwater Monitoring:				\$ 24,100
2. Surface Water Monitoring [62-701.510(4), and (8)(b)]				
Monthly	12		\$ -	\$ -
Quarterly	4		\$ -	\$ -
Semi-Annual	2	1	\$ 2,340.00	\$ 4,680
Annual	1		\$ -	\$ -
Subtotal Surface Water Monitoring:				\$ 4,680
3. Gas Monitoring [62-701.400(10)]				
Monthly	12		\$ -	\$ -
Quarterly	4	17	\$ 73.53	\$ 5,000
Semi-Annual	2		\$ -	\$ -
Annual	1		\$ -	\$ -
Subtotal Gas Monitoring:				\$ 5,000
4. Leachate Monitoring [62-701.510(5), (6)(b) and 62-701.510(8)c]				
Monthly	12		\$ -	\$ -
Quarterly	4		\$ -	\$ -
Semi-Annual	2		\$ -	\$ -
Annual	1	1	\$ 1,230.00	\$ 1,230
Other (explain) _____			\$ -	\$ -
Subtotal Leachate Monitoring:				\$ 1,230

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. Leachate Collection/Treatment Systems Maintenance				
<u>Maintenance</u>				
Collection Pipes	LS	0.2	\$ 37,096.00	\$ 7,419
Sumps, Traps	EA		\$ -	\$ -
Lift Stations	EA		\$ -	\$ -
Cleaning	LS		\$ -	\$ -
Tanks	LS	0.3	\$ 19,000.00	\$ 6,333

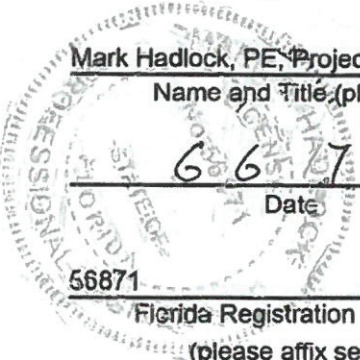
Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. (continued)				
<u>Impoundments</u>				
Liner Repair	SY		\$ -	\$ -
Sludge Removal	CY		\$ -	\$ -
<u>Aeration Systems</u>				
Floating Aerators	EA DAY			\$ -
Spray Aerators	EA		\$ -	\$ -
<u>Disposal</u>				
Off-site (Includes transportation and disposal)	1,000 gallon	4200	\$ 26.10	\$ 109,620
Subtotal Leachate Collection / Treatment				
Systems Maintenance:				\$ 123,372
6. Groundwater Monitoring Wells Maintenance				
Monitoring Wells	LF		\$ -	\$ -
Replacement	EA	0.2	\$ 1,927.00	\$ 385
Abandonment	EA	0.2	\$ 1,202.00	\$ 240
Subtotal Groundwater Monitoring Well Maintenance:				\$ 625
7. Gas System Maintenance				
Piping, Vents	EA	0.5	\$ 3,969.00	\$ 1,985
Blowers	EA		\$ -	\$ -
Flaring Units	EA		\$ -	\$ -
Meters, Valves	EA		\$ -	\$ -
Compressors	EA		\$ -	\$ -
Flame Arrestors	EA		\$ -	\$ -
Operation	LS		\$ -	\$ -
Subtotal Gas System:				\$ 1,985
8. Landscape Maintenance				
Mowing 4 /yr	AC	24.8	\$ 27.01	\$ 2,679
Fertilizer /yr	AC		\$ -	\$ -
Subtotal Landscape Maintenance:				\$ 2,679
9. Erosion Control and Cover Maintenance				
Sodding	SY	2,420	\$ 2.61	\$ 6,316
Regrading	SY	2,420	\$ 0.76	\$ 1,839
Liner Repair	SY	100	\$ 11.70	\$ 1,170
Clay	CY		\$ -	\$ -
Subtotal Erosion Control and Cover Maintenance:				\$ 9,325
10. Storm Water Management System Maintenance				
Conveyance Maintenance	CY	89	\$ 7.39	\$ 657
Subtotal Storm Water System Maintenance:				\$ 657
11. Security System Maintenance				
Fences	LS LF	50	\$ 15.00	\$ 750
Gate(s)	EA	0.2	\$ 1,092.50	\$ 219
Sign(s)	EA	0.2	\$ 349.52	\$ 70
Subtotal Security System:				\$ 1,039

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.



Signature


Mark Hadlock, PE, Project Director

Name and Title (please type)

6/6/17

Date

56871

Florida Registration Number
(please affix seal)

730 NE Waldo Road

Mailing Address

Gainesville, Florida 32641

City, State, Zip Code

mhadlock@jonesedmunds.com

E-Mail address (if available)

(352) 377-5821

Telephone Number

VII. SIGNATURE BY OWNER/OPERATOR



Signature of Applicant

Ken Wheeler, PE, Project Manager

Name and Title (please type)

ken.wheeler@hardeecounty.net

E-Mail address (if available)

685 Airport Road

Mailing Address

Wauchula, FL 33873

City, State, Zip Code

863-773-5089

Telephone Number

EXHIBIT R-2

BACKUP OF LONG-TERM CARE UNIT COSTS

**Hardee County Class I Landfill
Cost Estimate for Monitoring Services
2017 Financial Assurance Cost Estimate**



1. Groundwater Monitoring (62-701.510(6), and (8)(a))

	Sampling Frequency (events/yr.)	Number of Wells	\$/Well/Event		\$/Year	
Semi-Annually	2	8	\$	1,506.25	\$	24,100.00
Subtotal Groundwater Monitoring:					\$	24,100.00

<u>Estimates for above calculations:</u>			\$/Year	
Total Sampling Cost for Groundwater Monitoring Wells			\$	7,520.00
Total Reporting Cost for Groundwater Monitoring Wells			\$	10,400.00
Total Laboratory Analytical Costs for Groundwater Monitoring Wells			\$	6,180.00
Total Costs Related to Groundwater Monitoring (Per Year)			* \$	24,100.00

Notes: All costs are for a third party providing all materials and labor.

Number of wells based on:

Semi-Annually: 2 Background Wells
6 Detection Wells

* Slight Differences in Totals Due to Multiplication and Rounding of Unit Costs

**Hardee County Class I Landfill
Cost Estimate for Monitoring Services
2017 Financial Assurance Cost Estimate**



2. Surface Water Monitoring (62-701.510(4), and (8)(b))

	Sampling Frequency (events/yr.)	Number of Stations	\$/Station/Event	\$/Year
Semi-Annually	2	1	\$ 2,340.00	\$ 4,680.00
Subtotal Surface Water Monitoring:				\$ 4,680.00

<u>Estimates for above calculations:</u>			\$/Year
Total Sampling Cost for Surface Water Stations	\$		940.00
Total Reporting Cost for Surface Water Stations	\$		1,300.00
Total Laboratory Analytical Costs for Surface Water Stations	\$		2,440.00
Total Costs Related to Surface Water Monitoring (Per Year)	\$	*	4,680.00

Notes: All costs are for a third party providing all materials and labor.

Number of stations based on:

Semi-Annually: 1 Surface Water Station

* Slight Differences in Totals Due to Multiplication and Rounding of Unit Costs

**Hardee County Class I Landfill
Cost Estimate for Monitoring Services
2017 Financial Assurance Cost Estimate**



3. Gas Monitoring (62-701.400(10))

	Sampling Frequency (events/yr.)	Number of Stations	\$ / Station / Event		\$ / Year	
Quarterly	4	17	\$	73.53	\$	5,000.04

Subtotal Gas Monitoring: \$ 5,000.04

<u>Estimates for above calculations:</u>			\$ / Year	
Total Sampling Cost for Landfill Gas Monitoring			\$	3,475.00
Total Reporting Cost for Landfill Gas Monitoring			\$	1,525.00
Total Costs Related to Landfill Gas Monitoring (Per Year)			* \$	5,000.00

Notes: All costs are for a third party providing all materials and labor.

Number of stations based on:

Monthly: 13 Landfill Gas Monitoring Wells
4 Ambient Points (Buildings / Structures)

* Slight Differences in Totals Due to Multiplication and Rounding of Unit Costs

**Hardee County Class I Landfill
Cost Estimate for Monitoring Services
2017 Financial Assurance Cost Estimate**



4. Leachate Monitoring (62-701.510(5), (6)(b) and 62-701.510(8)c)

	Sampling Frequency (events/yr.)	Number of Stations	\$/Station/Event	\$/Year
Annually	1	1	\$ 1,230.00	\$ 1,230.00
Subtotal Leachate Monitoring:				\$ 1,230.00

Estimates for above calculations:			\$/Year
Total Sampling Cost for Leachate Monitoring	\$		470.00
Total Reporting Cost for Leachate Monitoring	\$		650.00
Total Laboratory Analytical Costs for Leachate Monitoring	\$		110.00
Total Costs Related to Leachate Monitoring (Per Year)	\$	*	1,230.00

Notes: All costs are for a third party providing all materials and labor.

Number of stations based on:

Annually: 1 Leachate Station

* Slight Differences in Totals Due to Multiplication and Rounding of Unit Costs

FLORIDA JETCLEAN

**HIGH PRESSURE WATER JETTING – VACUUM EXTRACTION
EXPLOSION PROOF INSPECTION - PIPE LOCATING – NO DIG REPAIRS**

7538 Dunbridge Drive
Odessa, FL 33556
www.floridajetclean.com

TEL : 800-226-8013
FAX : 813-926-4616

PROPOSAL

DATE : 5/5/2017
TO : Jeremy Toms – Jones Edmunds
FROM : Ralph Calistri (floridajetclean@yahoo.com)
SUBJECT : Leachate Collection System Maintenance at Hardee County Landfill

Thank you for your inquiry. We confirm our capability and interest in carrying out this work at the Hardee County Landfill.

FLORIDA JETCLEAN specializes in leachate collection system maintenance and inspection, and has developed a considerable amount of specific expertise in this field over the last 29+ years. Our company has worked at an extensive number of landfills in Florida, Georgia, the Carolinas, Delaware, and westward to Arkansas. We have worked with most engineering companies active in this field, and have also fostered excellent working relationships with the regulatory authorities. We use modified jetting equipment designed to achieve extended pipe distances found in landfill environments and our explosion proof camera equipment complies with OSHA and regulatory mandates for methane environments. Substantial references are available on request.

- 1) **Florida Jetclean, Inc. is consistently successful in Leachate pipe cleaning because of our ability to address extended distances from a single point of entry.** Typical lower-end equipment is designed for much shorter pipes in sewer environments and is just not capable of distances required in Leachate collection systems. We will provide very capable, high-end equipment, and seasoned operators to help ensure success. Our current distance record from a single point of entry is 1,650'.
- 2) Florida Jetclean, Inc. uses only **explosion proof** (certified Class 1, Division 1, Gas Groups C & D) tractor-driven or push-rod video inspection equipment. **THIS CERTIFICATION IS MANDATED BY OSHA IN METHANE PIPING.** Our equipment and procedures fully meet OSHA and DEP requirements, and **we will put it in writing.**

Proposal to provide high-pressure water-jetting and explosion-proof video-inspection services on the Phase I leachate collection system and the Phase II Section I & II

leachate collection and groundwater collection systems at the Hardee County Landfill, as follows:

Approximately

3,000' of Phase I Leachate Collection Pipe

6,340' of Phase II Section I Groundwater Collection Pipe

2,350' of Phase II Section I Leachate Collection Pipe

1,300' of Phase II Section I Toe Drains

Two days of vacuum extraction of dislodged sediments from pump stations and sumps.

Total Cost For Above = \$ 29,227.50

Plus Additional Pipe

3,150' of Phase II Section II Leachate Collection Pipe

1,000' of Phase II Section II Groundwater Underdrain

Total Cost For Additional Pipe = \$ 7,868.50

17,140 LF Piping Total Cost = \$37,096 Piping unit cost = \$2.16 / LF

Plus Cleaning 2 x 79,000 Gallon (30' x 16') Open Top Leachate Tanks

- Confined Space Entry
- Vacuum Truck / Crew for Cleanout of Sludge
- On Site, No charge Disposal of Sludge

Total Cost For Tank Cleanout = \$ 9,500.00 / Tank

The proposal is subject to the following :

- The above pipe cleaning covers biomass and light silt removal. Scale removal and blockage penetration may require the use of 10,000PSI/20GPM pipeline water-blasting equipment billable at \$1,950/day. Pipes affected by heavy silting may require additional hourly billing.
- An adequate, no charge, on site water supply for jetcleaning.
- Debris vacuum extracted from landfill vaults and/or tanks to be dumped back on site at no charge.
- 2 wheel drive vehicle access within 10'-15' of each cleanout or manhole
- Continuity of access allowing work to be carried out on a single mobilization
- Exposed and opened cleanouts/manholes at ground level
- Standby time chargeable at \$200.00 per hour should delays not of our making delay progress e.g. bad weather, access problems, high leachate flow levels etc.
- Pricing is unrelated to actual or achieved footages but on the number of setups required and the time we anticipate being on site.
- Current technology limitations may preclude the use of tractor video systems (range 1250') in 8" lines restricted to cleanout access. If a push video system has to be used, we will be limited to a maximum 500' from each point of entry.
- Our equipment and procedures fully meet OSHA and DEP requirements. In particular our video inspection equipment is certified Class I, Division I, Groups C & D (i.e. explosion proof). This is mandated in methane piping by OSHA.

- Tanks to be pumped down thereby exposing sludge to be removed via vacuum truck.
- Video log and report together with DVD's will be provided after completion.

Regards,

A handwritten signature in black ink that reads "Ralph Calistri". The signature is written in a cursive, slightly slanted style.

Ralph Calistri – Florida Jetclean

LTC Item 5 - Leachate disposal

**#11040 – CITY OF WAUCHULA
P O BOX 818 WAUCHULA, FL 33873**

Solid Waste – Utilities
685 AIRPORT RD

SEND COPY TO KEN WHEELER & OFELIA

13 10660 Landfill

Acct# 403-534-043-0 2612.90



CITY OF WAUCHULA

126 South 7th Ave.
WAUCHULA, FL 33873-2802
863-773-3131
www.cityofwauchula.com

MAKE CHECKS PAYABLE TO:
CITY OF WAUCHULA
OFFICE HOURS:
Monday - Friday
8:00 a.m. - 5:00 p.m.

Please Put Account
Number on Check

ACCOUNT NUMBER
13-10660-00

SERVICE FROM
03/14/2017

SERVICE TO
04/13/2017

ACCOUNT NUMBER
13-10660-00

SERVICE ADDRESS

INDUSTRIAL PK
CUSTOMER

DUE DATE	AMOUNT DUE
05/19/17	\$2,612.90

RECEIVED APR 26 2017

**SERVICE MAY BE DISCONTINUED WITHOUT FURTHER NOTICE
IF NOT PAID BY THE DUE DATE. ANY PAST DUE BALANCE
(AR) MUST BE PAID IMMEDIATELY.**

HARDEE COUNTY COMMIS



AFTER HOURS, PLEASE CALL 863-773-3132

**Bills are due and payable when rendered.
THIS IS THE ONLY NOTICE YOU WILL RECEIVE.
Failure to receive bill does not relieve obligation
to pay or entitle extended time for payment.**

SERVICE CODES:	EL - Electric	DC - Demand Charge	U - User Fee	AR - Arrears
	GA - Garbage	SL - Security Light	W - Water	CT - City Utility Tax or Surcharge
	SE - Sewer	ST - State Sales Tax	H - Hanger Rent	K - Florida Gross Receipt Tax

AMOUNT DUE
\$2,612.90

PLEASE
RETURN THIS
STUB WITH
YOUR PAYMENT

SUMMARY AREA - BILL TOTALS

METER READING		CONSUMPTION	CODE	AMOUNT DUE
PREVIOUS	PRESENT			
0	304,000	304,000	SW SEWER METE	2,612.90
			AMOUNT DUE	\$2,612.90

\$2,612.90/304,000 gal x 1,000 gal = \$8.60 /1,000 gal

COST ADJ. RATE 0.00000

--



LTC Item 5 - Leachate Hauling

JLC FARMS, INC.
Citrus Harvesting & Hauling
Licensed Citrus Fruit Dealer

Hardee County

Attn: Ken Wheeler

Dear Mr. Wheeler,

Thank you for allowing JLC Farms, INC. the opportunity to propose a bid for the hauling job as described. We are prepared to provide our truck and driver transporting the tanker with the specified trailer load from the Hardee County Landfill. We will do this at a cost of \$70.00 per hour. We would appreciate the county's consideration for this job.

Again, thank you for your time and we look forward to working with you.

Sincerely,

Jake Carlton, Vice President
JLC Farms, INC.

Assume:

6,000 gal/load

10 hours/7 loads (based on current disposal) = 1.5 hours/load

Calculate:

$\$70/\text{hour} \times (1.5 \text{ hours/load}) \times (1 \text{ load}/6,000 \text{ gal}) = \$0.0175/\text{gal} = \$17.50/\text{Kgal}$



Client: Jones Edmunds & Associates, Inc.

Attn: FACE Backup Information - Groundwater Monitoring Well Replacement

Date: 5/10/2017

Quote Page 1 of 1

Cost Estimate Drilling: Hardee County Class I Landfill

HDI #

	EST /UNIT	PRICE	TOTAL
MOBILIZATION/DEMOBILIZATION			\$ 650.00
MONITORING WELLS (Includes: Screen, Riser, Seal & Grout)			
Diameter 2" (1x20') 0 - 50'	20.0 /ft	28.00 /ft	\$ 560.00
ADDITIONAL ITEMS			
Well Completion (Development, Concrete Pad)	1.0 /ea	207.00 /ea	\$ 207.00
Above-Ground Protective Casing	1.0 /ea	75.00 /ea	\$ 75.00
Per Diem	1.0 /dy	385.00 /dy	\$ 385.00
Permits	1.0 /ea	50.00 /ea	\$ 50.00
Total Estimate			\$ 1,927.00

35920 STATE ROAD 52 • DADE CITY, FL 33525 • (352) 567-9500 • (352) 567-6646

LTC Item 6 - Groundwater Monitoring Well Replacement

LTC Item 7 - Gas vent replacement



Client: Jones Edmunds & Associates, Inc.

Attn: FACE Backup Information - Groundwater Monitoring Well Replacement

Date: 5/10/2017

Quote Page 1 of 1

Cost Estimate Drilling: Hardee County Class I Landfill

HDI #

	EST /UNIT	PRICE	TOTAL
MOBILIZATION/DEMOBILIZATION			\$ 650.00
MONITORING WELLS (Includes: Screen, Riser, Seal & Grout)			
Diameter 2" (1x20') 0 - 50'	20.0 /ft	28.00 /ft	\$ 560.00
ADDITIONAL ITEMS			
Well Completion (Development, Well Cover, Concrete Pad)	1.0 /ea	207.00 /ea	\$ 207.00
Per Diem	1.0 /dy	385.00 /dy	\$ 385.00
Permits	1.0 /ea	50.00 /ea	\$ 50.00
Total Estimate			\$ 1,852.00

35920 STATE ROAD 52 • DADE CITY, FL 33525 • (352) 567-9500 • (352) 567-6646

Assume abandonment done concurrently with drilling:
Total = \$1,852 - \$650 = \$1,202



Client: Jones Edmunds & Associates, Inc.

Attn: FACE Backup Information - Groundwater Monitoring Well Replacement

Date: 5/10/2017

Quote Page 1 of 1

Cost Estimate Drilling: Hardee County Class I Landfill

HDI #

	EST /UNIT	PRICE	TOTAL
MOBILIZATION/DEMOBILIZATION			\$ 650.00
MONITORING WELLS (Includes: Screen, Riser, Seal & Grout)			
Diameter 2" (1x20') 0 - 50'	20.0 /ft	28.00 /ft	\$ 560.00
ADDITIONAL ITEMS			
Well Completion (Development, Concrete Pad)	1.0 /ea	207.00 /ea	\$ 207.00
Above-Ground Protective Casing	1.0 /ea	75.00 /ea	\$ 75.00
Per Diem	1.0 /dy	385.00 /dy	\$ 385.00
Permits	1.0 /ea	50.00 /ea	\$ 50.00
Total Estimate			\$ 1,927.00

35920 STATE ROAD 52 • DADE CITY, FL 33525 • (352) 567-9500 • (352) 567-6646

Change to 50 ft gas vent:

50 ft x \$28/ft = \$1400

\$1400 + \$650 + \$207 + \$75 + \$385 + \$50 = \$2,767

Cost Estimate Report

Date: 05/08/2017

LTC Item 8 - mowing
LTC Item 9 - Liner repair

Hardee County Landfill FACE

Year 2016

Unit Detail Report

Prepared By: C. Sawyer

Jones Edmunds & Associates, Inc.

LineNumber	Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P
Division 32 Exterior Improvements					
320190194190	Mowing, lawn mowing, 5 gang reel, 12', with tractor & attachments	0.00	M.S.F.	\$0.62	\$0.00
Division 32 Exterior Improvements Subtotal					
Division 33 Utilities					
334713531200	Pond and reservoir liners, membrane lining systems HDPE, 100,000 S.F. or more, 60 mil thick, per S.F.	0.00	S.F.	\$1.30	\$0.00
Division 33 Utilities Subtotal					
Subtotal					
General Contractor's Markup on Subs				0.00%	\$0.00
Subtotal					
General Conditions				0.00%	\$0.00
Subtotal					
General Contractor's Overhead and Profit				0.00%	\$0.00
Grand Total					

Mowing
\$0.62/MSF x 1 MSF/1000 SF x 43560 SF/acre = \$27.01/acre

Liner Repair
\$1.30/SF x 9 SF/SY = \$11.70/SY

Contract Type: CC STATEWIDE
Displaying: VALID ITEMS WITH HITS
From: 0102 1 To: 9999999

LTC Item 9 - Regrading

Item	No. of Conts	Weighted Average	Total Amount	Total Quantity	Unit Meas	Obs?	Description
0110 7 1	51	\$147.36	\$129,386.23	878.000	EA	N	MAILBOX, F&I SINGLE
0110 8 1	1	\$4,000.00	\$8,000.00	2.000	DA	N	UNDERWATER DEBRIS REMOVAL
0110 12 1	2	\$1,802.90	\$124,400.00	69.000	SY	N	HYDRODEMOLITION, REM OF DECK SURFACE
0110 20 2	1	\$405.67	\$199,995.31	493.000	SF	N	REMOVAL OF EXISTING WALL, RETAINING WALL
0110 71 1	3	\$453.19	\$434,614.00	959.000	LF	N	BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL
0110 73 4	4	\$107.45	\$143,125.00	1,332.000	LF	N	REMOVE EXISTING BULKHEAD
0110 82 1	1	\$5,000.00	\$10,000.00	2.000	MB	N	REMOVE & DISPOSE OF STRUCTURAL TIMBER
0110 84 1	1	\$1,855,000.00	\$1,855,000.00	1.000	LS	N	TRANSPORT EXIST MATL FOR REEF EST
0110 86 21	21	\$2,629.59	\$73,628.42	28.000	LS	N	DELIVERY OF SALVAGEABLE MATERIAL TO FDOT
0120 1 122	122	\$5.72	\$73,628.42	28.000	LS	N	REGULAR EXCAVATION
0120 2 2	2	\$12.81	\$25,304,522.95	4,423,742.480	CY	N	BORROW EXCAVATION, TRUCK MEASURE
0120 3 3	3	\$10.73	\$1,326,809.55	103,605.740	CY	N	LATERAL DITCH EXCAVATION
0120 4 33	33	\$7.39	\$23,932.39	2,230.700	CY	N	SUBSOIL EXCAVATION
0120 5 13	13	\$31.88	\$5,946,065.26	804,342.400	CY	N	CHANNEL EXCAVATION
0120 6 99	99	\$7.75	\$375,028.03	11,764.600	CY	N	EMBANKMENT
0120 71 37	37	\$30,516.96	\$72,629,367.81	9,369,169.100	CY	N	REGULAR EXCAVATION (3-R PROJECTS ONLY)
0120 74 1	1	\$3.00	\$1,220,678.36	40.000	LS	N	SURCHARGE EMBANKMENT
0121 70 14	14	\$179.62	\$657,815.61	22,168.000	CY	N	FLOWABLE FILL
0125 1 5	5	\$11.31	\$14,498.20	3,662.300	CY	N	EXCAVATION FOR STRUCTURES
0125 3 1	1	\$130.00	\$14,040.00	1,282.300	CY	N	SELECT BEDDING MATERIAL
0141 70 6	6	\$986.25	\$78,900.00	108.000	CY	N	SETTLEMENT PLATE ASSEMBLY
0145 1 2	2	\$3.59	\$184,709.00	51,496.000	SF	N	GEOSYNTHETIC REINFORCED SOIL SLOPE
0145 2 9	9	\$3.56	\$307,938.79	86,418.000	SY	N	GEOSYNTHETIC REINF FND OVER SOFT SOIL
0145 72 1	1	\$30.00	\$1,530.00	51.000	SY	N	CELLULAR CONFINEMENT FOR SOIL STABILIZAT
0160 4 117	117	\$4.23	\$20,652,184.08	4,880,580.000	SY	N	TYPE B STABILIZATION
0162 1 11	77	\$7.76	\$3,148,246.83	4,142,023.000	SY	N	PREPARED SOIL LAYER, FINISH SOIL, 6"
0162 1 12	6	\$2.65	\$100,591.93	37,898.000	SY	N	PREPARED SOIL LAYER, FINISH SOIL, 12"
0162 1 21	1	\$2.70	\$103,239.90	38,237.000	SY	N	PREPARED SOIL LAYER, ORGANIC SOIL, 6"
0173 76 1	1	\$17.00	\$17,000.00	1,000.000	LF	N	GROUT PIPE INSTALLATION
0173 77 1	2	\$196.38	\$143,360.00	730.000	CY	N	SUBSURF PRESSURE GROUTING, SAND CEM
0210 1 1	2	\$5.91	\$44,112.00	7,458.000	SY	N	REWORKING LIMEROCK BASE, 6"
0210 1 9	1	\$50.00	\$10,000.00	200.000	SY	N	REWORKING LIMEROCK BASE, 3"
0210 2 1	1	\$30.00	\$10,455.00	348.500	CY	N	LIMEROCK-NEW MATERIAL FOR REWORKING BASE
0285701 83	83	\$16.34	\$18,055,971.64	1,105,159.000	SY	N	OPTIONAL BASE, BASE GROUP 01
0285702 13	13	\$9.67	\$628,106.59	64,933.000	SY	N	OPTIONAL BASE, BASE GROUP 02
0285703 9	9	\$8.60	\$991,432.70	115,258.000	SY	N	OPTIONAL BASE, BASE GROUP 03
0285704 12	12	\$11.52	\$1,113,645.15	96,680.000	SY	N	OPTIONAL BASE, BASE GROUP 04
0285705 8	8	\$12.74	\$2,966,663.75	232,945.000	SY	N	OPTIONAL BASE, BASE GROUP 05
0285706 42	42	\$17.89	\$3,573,401.31	199,774.000	SY	N	OPTIONAL BASE, BASE GROUP 06
0285707 3	3	\$28.29	\$214,756.90	7,591.000	SY	N	OPTIONAL BASE, BASE GROUP 07

Florida Department of Transportation

Item Average Unit Cost

From 2016/04/01 to 2017/03/31

LTC Item 9 - Sodding

Contract Type: CC STATEWIDE

Displaying: VALID ITEMS WITH HITS

From: 0102 1 To: 9999999

Item	No. of Conts	Weighted Average	Total Amount	Total Quantity	Unit Meas	Obs?	Description
0561 1	14	\$1,025.28	\$17,236,033.42	16,811.100	TN	N	COATING EXISTING STRUCTURAL STEEL
0561 2	2	\$34.74	\$144,189.50	4,150.000	SF	N	COATING EXISTING STRUCTURAL STEEL
0563 4	3	\$1.55	\$59,729.95	38,439.000	SF	N	ANTI-GRAFFITI COATING, NON-SACRIFICIAL
0570 1 1	37	\$1.93	\$6,446,022.03	3,332,194.000	SY	N	PERFORMANCE TURF
0570 1 2	178	\$2.61	\$16,383,491.91	6,268,046.000	SY	N	PERFORMANCE TURF, SOD
0571 1 11	7	\$3.57	\$154,350.22	43,260.000	SY	N	PLASTIC EROSION MAT, TRM, TYPE 1
0571 1 12	4	\$9.51	\$192,974.82	20,301.000	SY	N	PLASTIC EROSION MAT, TRM, TYPE 2
0571 1 13	1	\$32.00	\$704.00	22.000	SY	N	PLASTIC EROSION MAT, TRM, TYPE 3
0580 1 1	8	\$97,357.28	\$778,858.20	8.000	LS	N	LANDSCAPE COMPLETE- SMALL PLANTS
0580 1 2	11	\$37,907.32	\$492,795.13	13.000	LS	N	LANDSCAPE COMPLETE- LARGE PLANTS
0580 2 2	1	\$1,400.00	\$85,400.00	61.000	EA	N	LANDSCAPE- RELOCATE TREE, PALMS >14'
0580 7103	1	\$10.50	\$7,371.00	702.000	EA	N	LANDSCAPE- SM SHRUB/GR, MUHLY GRASS
0590 3	1	\$27,400.00	\$27,400.00	1.000	EA	N	IRRIGATION SYSTEM CONTROLLER
0590 70	4	\$60,785.00	\$243,140.00	4.000	LS	N	IRRIGATION SYSTEM
0590 70 1	8	\$39,113.22	\$312,905.75	8.000	LS	N	IRRIGATION SYSTEM REPAIRS
0630 2 11	111	\$7.25	\$10,856,822.73	1,497,112.000	LF	N	CONDUIT, F& I, OPEN TRENCH
0630 2 12	119	\$16.69	\$9,059,246.65	542,719.000	LF	N	CONDUIT, F& I, DIRECTIONAL BORE
0630 2 14	25	\$19.45	\$163,021.46	8,381.000	LF	N	CONDUIT, F& I, ABOVEGROUND
0630 2 15	25	\$18.44	\$827,936.08	44,910.000	LF	N	CONDUIT, F& I, BRIDGE MOUNT
0630 2 65	4	\$7.58	\$37,961.00	5,011.000	LF	N	CONDUIT, REMOVE, BRIDGE MOUNT
0632 7 1	75	\$5,129.21	\$1,128,425.73	220.000	PI	N	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL
0632 7 2	23	\$4.95	\$98,857.73	19,969.000	LF	N	SIGNAL CABLE, REPAIR/REPL-FUR & INSTALL
0632 7 6	36	\$620.06	\$45,264.08	73.000	PI	N	SIGNAL CABLE, REMOVE- INTERSECTION
0632 7 7	2	\$2.89	\$1,435.00	496.000	LF	N	SIGNAL CABLE, REMOVE- OUTSIDE OF INTERSE
0633 1111	3	\$5.20	\$7,880.00	1,516.000	LF	N	FIBER OPTIC CABLE, F&I, OVH, 2-12
0633 1112	1	\$2.68	\$696.80	260.000	LF	N	FIBER OPTIC CABLE, F&I, OVH, 13-48
0633 1113	1	\$3.00	\$17,976.00	5,992.000	LF	N	FIBER OPTIC CABLE, F&I, OVH, 49-96
0633 1121	35	\$2.58	\$1,266,097.12	490,785.000	LF	N	FIBER OPTIC CABLE, F&I, UG, 2-12
0633 1122	22	\$2.94	\$452,050.70	153,537.000	LF	N	FIBER OPTIC CABLE, F&I, UG, 13-48
0633 1123	16	\$2.72	\$2,772,762.46	1,018,780.000	LF	N	FIBER OPTIC CABLE, F&I, UG, 49-96
0633 1124	3	\$3.67	\$503,361.00	137,118.000	LF	N	FIBER OPTIC CABLE, F&I, UG, 97-144
0633 1410	1	\$2.07	\$581.67	281.000	LF	N	FIBER OPTIC CABLE, REL, OV
0633 1420	7	\$12.19	\$65,179.58	5,345.000	LF	N	FIBER OPTIC CABLE, REL, UG
0633 1610	3	\$1.77	\$5,767.48	3,266.000	LF	N	FIBER OPTIC CABLE, REM, OV
0633 1620	19	\$8.1	\$172,882.85	213,371.000	LF	N	FIBER OPTIC CABLE, REM, UG
0633 2 31	38	\$41.53	\$345,342.94	8,316.000	EA	N	FIBER OPTIC CONNECTION, INSTALL, SPLICE
0633 2 32	20	\$86.60	\$233,723.96	2,699.000	EA	N	FIBER OPTIC CONNECTION, INSTALL, TERM
0633 3 11	35	\$860.87	\$303,027.83	352.000	EA	N	FIBER OPTIC CONN HDWR, SPLICE ENCLOSURE
0633 3 12	30	\$68.88	\$40,430.86	587.000	EA	N	FIBER OPTIC CONN HDWR, SPLICE TRAY
0633 3 13	14	\$94.35	\$229,180.07	2,429.000	EA	N	FIBER OPTIC CONN HDWR, PRETERM CONNECT A

Florida Department of Transportation

Item Average Unit Cost

From 2016/04/01 to 2017/03/31

Contract Type: CC STATEWIDE

Displaying: VALID ITEMS WITH HITS

From: 0102 1 To: 9999999

LTC Item 10 - Stormwater Ditch

Item	No. of Conts	Weighted Average	Total Amount	Total Quantity	Unit Meas	Obs?	Description
0110 7 1	51	\$147.36	\$129,386.23	878.000	EA	N	MAILBOX, F&I SINGLE
0110 8	1	\$4,000.00	\$8,000.00	2.000	DA	N	UNDERWATER DEBRIS REMOVAL
0110 12 1	2	\$1,802.90	\$124,400.00	69.000	SY	N	HYDRODEMOLITION, REM OF DECK SURFACE
0110 20 2	1	\$405.67	\$199,995.31	493.000	SF	N	REMOVAL OF EXISTING WALL, RETAINING WALL
0110 71 1	3	\$453.19	\$434,614.00	959.000	LF	N	BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL
0110 73	4	\$107.45	\$143,125.00	1,332.000	LF	N	REMOVE EXISTING BULKHEAD
0110 82	1	\$5,000.00	\$10,000.00	2.000	MB	N	REMOVE & DISPOSE OF STRUCTURAL TIMBER
0110 84	1	\$1,855,000.00	\$1,855,000.00	1.000	LS	N	TRANSPORT EXIST MATL FOR REEF EST
0110 86	21	\$2,629.59	\$73,628.42	28.000	LS	N	DELIVERY OF SALVAGEABLE MATERIAL TO FDOT
0120 1	122	\$5.72	\$25,304,522.95	4,423,742.480	CY	N	REGULAR EXCAVATION
0120 2 2	55	\$12.81	\$1,326,809.55	103,605.740	CY	N	BORROW EXCAVATION, TRUCK MEASURE
0120 3	3	\$10.73	\$23,932.39	2,230.700	CY	N	LATERAL DITCH EXCAVATION
0120 4	33	\$7.39	\$5,946,065.26	804,342.400	CY	N	SUBSOIL EXCAVATION
0120 5	13	\$31.88	\$375,028.03	11,764.600	CY	N	CHANNEL EXCAVATION
0120 6	99	\$7.75	\$72,629,367.81	9,369,169.100	CY	N	EMBANKMENT
0120 71	37	\$30,516.96	\$1,220,678.36	40.000	LS	N	REGULAR EXCAVATION (3-R PROJECTS ONLY)
0120 74	1	\$3.00	\$66,504.00	22,168.000	CY	N	SURCHARGE EMBANKMENT
0121 70	14	\$179.62	\$657,815.61	3,662.300	CY	N	FLOWABLE FILL
0125 1	5	\$11.31	\$14,498.20	1,282.300	CY	N	EXCAVATION FOR STRUCTURES
0125 3	1	\$130.00	\$14,040.00	108.000	CY	N	SELECT BEDDING MATERIAL
0141 70	6	\$986.25	\$78,900.00	80.000	AS	N	SETTLEMENT PLATE ASSEMBLY
0145 1	2	\$3.59	\$184,709.00	51,496.000	SF	N	GEOSYNTHETIC REINFORCED SOIL SLOPE
0145 2	9	\$3.56	\$307,938.79	86,418.000	SY	N	GEOSYNTHETIC REINF FND OVER SOFT SOIL
0145 72	1	\$30.00	\$1,530.00	51.000	SY	N	CELLULAR CONFINEMENT FOR SOIL STABILIZAT
0160 4	117	\$4.23	\$20,652,184.08	4,880,580.000	SY	N	TYPE B STABILIZATION
0162 1 11	77	\$7.76	\$3,148,246.83	4,142,023.000	SY	N	PREPARED SOIL LAYER, FINISH SOIL, 6"
0162 1 12	6	\$2.65	\$100,591.93	37,898.000	SY	N	PREPARED SOIL LAYER, FINISH SOIL, 12"
0162 1 21	1	\$2.70	\$103,239.90	38,237.000	SY	N	PREPARED SOIL LAYER, ORGANIC SOIL, 6"
0173 76	1	\$17.00	\$17,000.00	1,000.000	LF	N	GROUT PIPE INSTALLATION
0173 77 1	2	\$196.38	\$143,360.00	730.000	CY	N	SUBSURF PRESSURE GROUTING, SAND CEM
0210 1 1	2	\$5.91	\$44,112.00	7,458.000	CY	N	REWORKING LIMEROCK BASE, 6"
0210 1 9	1	\$50.00	\$10,000.00	200.000	SY	N	REWORKING LIMEROCK BASE, 3"
0210 2	1	\$30.00	\$10,455.00	348.500	CY	N	LIMEROCK-NEW MATERIAL FOR REWORKING BASE
0285701	83	\$16.34	\$18,055,971.64	1,105,159.000	SY	N	OPTIONAL BASE, BASE GROUP 01
0285702	13	\$9.67	\$628,106.59	64,933.000	SY	N	OPTIONAL BASE, BASE GROUP 02
0285703	9	\$8.60	\$991,432.70	115,258.000	SY	N	OPTIONAL BASE, BASE GROUP 03
0285704	12	\$11.52	\$1,113,645.15	96,680.000	SY	N	OPTIONAL BASE, BASE GROUP 04
0285705	8	\$12.74	\$2,966,663.75	232,945.000	SY	N	OPTIONAL BASE, BASE GROUP 05
0285706	42	\$17.89	\$3,573,401.31	199,774.000	SY	N	OPTIONAL BASE, BASE GROUP 06
0285707	3	\$28.29	\$214,756.90	7,591.000	SY	N	OPTIONAL BASE, BASE GROUP 07

Florida Department of Transportation
Item Average Unit Cost
From 2016/04/01 to 2017/03/31

Contract Type: CC STATEWIDE
Displaying: VALID ITEMS WITH HITS
From: 0102 1 To: 9999999

LTC Item 11 - Fencing

Item	No. of Conts	Weighted Average	Total Amount	Total Quantity	Unit Meas	Obs?	Description
0536 6	12	\$13.55	\$140,289.18	10,350.000	LF	N	PIPE RAIL FOR GUARDRAIL
0536 7	14	\$188.95	\$107,323.60	568.000	EA	N	SPECIAL GUARDRAIL POST
0536 7 1	3	\$90.49	\$247,674.50	2,737.000	EA	N	SPECIAL GUARDRAIL POST- DEEP POST FOR SL
0536 7 2	5	\$137.07	\$19,327.48	141.000	EA	N	SPECIAL GUARDRAIL POST- SP STEEL POST CM
0536 7 3	5	\$93.44	\$8,970.50	96.000	EA	N	SPECIAL GUARDRAIL POST- ENCASED POST SM
0536 7 4	1	\$175.00	\$3,150.00	18.000	EA	N	SPECIAL GUARDRAIL POST- FRANG LEAVE OUT
0536 8	43	\$2,585.78	\$669,717.06	259.000	EA	N	GUARDRAIL- BRIDGE ANCHORAGE ASSEM, F&I
0536 8 6	19	\$192.24	\$14,994.70	78.000	EA	N	GUARDRAIL, BRIDGE ANCHORAGE ASSEM, REMOVE
0536 8 11	3	\$1,888.44	\$16,996.00	9.000	EA	N	APPR TRANS- BRIDGE ANCH ASSY, F&I
0536 8 12	2	\$1,532.14	\$10,725.00	7.000	EA	N	APPROACH TRANS CONN TO RIGID BA, F&I, 2
0536 8 13	5	\$1,647.71	\$59,317.44	36.000	EA	N	APPROACH TRANS CONN TO RIGID BA, F&I, 3
0536 73	82	\$2.01	\$458,026.16	227,916.000	LF	N	GUARDRAIL REMOVAL
0536 82	14	\$2,430.26	\$272,189.40	112.000	EA	N	GUARDRAIL ANCHORAGE- CONC BARRIER
0536 83 1	1	\$150.00	\$1,200.00	8.000	EA	N	GUARDRAIL POST REPLACEMENT, REGULAR
0536 85 22	59	\$2,522.14	\$802,039.58	318.000	EA	N	GUARDRAIL END ANCH ASSY/END TREA- FLARED
0536 85 24	35	\$2,474.45	\$316,730.16	128.000	EA	N	GUARDRAIL END ANCH ASSY/END TRE, PARALLEL
0536 85 25	49	\$883.34	\$225,252.08	255.000	EA	N	GUARDRAIL END ANCH ASSY/END TRE- TYPE II
0536 85 26	10	\$1,995.03	\$53,865.72	27.000	EA	N	GUARDRAIL END ANCH ASSY/END TRE- TYP CRT
0536 85 27	6	\$5,023.07	\$45,207.66	9.000	EA	N	GUARDRAIL END ANCH ASSY/END TR- DBL FACE
0538 1	15	\$8.83	\$513,979.78	58,225.000	LF	N	GUARDRAIL RESET
0542 70	5	\$47.36	\$8,288.66	175.000	EA	N	BUMPER GUARDS, CONCRETE
0544 75 1	19	\$17,697.45	\$796,385.10	45.000	EA	N	CRASH CUSHION
0546 71	4	\$708.40	\$11,334.40	16.000	PS	N	RUMBLE STRIPS
0546 72 52	14	\$1,480.28	\$86,734.95	58.607	GM	N	RUMBLE STRIPS, GROUND-IN, 16" CENTERLINE
0546 72 53	29	\$1,095.45	\$365,161.36	333.345	GM	N	RUMBLE STRIPS, GROUND-IN, 8" EDGE LINE
0546 72 55	20	\$1,328.08	\$333,851.18	251.378	GM	N	RUMBLE STRIPS, GROUND-IN, 16" SHOULDER
0548 12	13	\$31.65	\$20,211,532.68	638,607.000	SF	N	RET WALL SYSTEM, PERM, EX BARRIER
0548 13	8	\$14.61	\$2,648,570.34	181,286.000	SF	N	RETAINING WALL SYSTEM, TEMP, EXC BAR.
0550 10110	5	\$12.70	\$29,623.20	2,332.000	LF	N	FENCING, TYPE A, 0.0-5.0', STANDARD
0550 10120	4	\$11.79	\$40,826.44	3,462.000	LF	N	FENCING, TYPE A, 5.1-6.0', STANDARD
0550 10149	1	\$11.87	\$653,051.79	55,017.000	LF	N	FENCING, TYPE A, 7.1-8.0', SPECIAL FEATU
0550 10150	2	\$10.66	\$766,519.00	71,932.000	LF	N	FENCING, TYPE A, 8.1-10.0', STANDARD
0550 10210	2	\$25.93	\$12,135.00	468.000	LF	N	FENCING, TYPE B, 0.0-5.0', STANDARD FEAT
0550 10212	2	\$13.66	\$15,664.00	1,147.000	LF	N	FENCING, TYPE B, 0.0-5.0', W/ VINYL COAT
0550 10218	1	\$40.00	\$6,400.00	160.000	LF	N	FENCING, TYPE B, 0.0-5.0', RESET EXIST
0550 10220	10	\$12.72	\$1,008,272.54	79,273.000	LF	N	FENCING, TYPE B, 5.1-6.0', STANDARD
0550 10221	1	\$15.00	\$1,890.00	126.000	LF	N	FENCING, TYPE B, 5.1-6.0', W/ BARB ATTMT
0550 10222	9	\$17.14	\$160,232.02	9,348.000	LF	N	FENCING, TYPE B, 5.1-6.0', W/ VINYL COAT
0550 10228	7	\$11.69	\$38,478.00	3,291.000	LF	N	FENCING, TYPE B, 5.1-6.0, RESET EXISTING
0550 10231	1	\$59.50	\$8,330.00	140.000	LF	N	FENCING, TYPE B, 6.1-7.0, W/ BARB ATTMT

Florida Department of Transportation
Item Average Unit Cost
From 2016/04/01 to 2017/03/31

Contract Type: CC STATEWIDE
Displaying: VALID ITEMS WITH HTS
From: 0102 1 To: 9999999

LTC item 11 - Gate

Item	No. of Conts	Weighted Average	Total Amount	Total Quantity	Unit Meas	Obs?	Description
0550 10238	1	\$20.00	\$980.00	49.000	LF	N	FENCING, TYPE B, 6.1-7.0, RESET EXISTING
0550 10248	2	\$43.91	\$6,938.15	158.000	LF	N	FENCING, TYPE B, 7.1-8.0, RESET EXISTING
0550 10251	4	\$18.29	\$2,000.988.85	109,432.000	LF	N	FENCING, TYPE B, 8.1-10.0', W/ BRD NR ATT
0550 10315	1	\$45.00	\$62,460.00	1,388.000	LF	N	FENCING, TYPE R, 0-5.0', VERTICAL
0550 10325	1	\$107.00	\$3,317.00	31.000	LF	N	FENCING, TYPE R, 5.1-6.0', VERTICAL
0550 10343	1	\$220.00	\$94,160.00	428.000	LF	N	FENCING, TYPE R, 7.1-8.0, W/FULL ENCLOS
0550 10344	2	\$30.35	\$91,313.80	3,009.000	LF	N	FENCING, TYPE R, 7.1-8.0, W/PART ENCLOS
0550 10353	3	\$79.27	\$216,162.35	2,727.000	LF	N	FENCING, TYPE R, 8.1-10', W/FULL ENCLOS
0550 10410	1	\$80.00	\$18,080.00	226.000	LF	N	FENCING, WOOD FENCE, 0.0-5.0'
0550 10420	2	\$5.24	\$4,946.25	944.000	LF	N	FENCING, WOOD, 5.1-6.0'
0550 10918	1	\$50.00	\$4,250.00	85.000	LF	N	FENCING, SPECIAL TYP, 0.0-5.0', RESET EXI
0550 10938	1	\$18.00	\$4,014.00	223.000	LF	N	FENCING, SPECIAL TYP, 6.1-7.0', RESET
0550 10948	1	\$20.00	\$60.00	3.000	LF	N	FENCING, SPECIAL TYP, 7.1-8.0', RESET
0550 11 11	1	\$5.46	\$89,653.20	16,420.000	LF	N	FENCING ENHANCEMENTS- GALV STEEL MESH
0550 11 12	1	\$5.80	\$79,895.00	13,775.000	LF	N	FENCING EN- PVC COAT STEEL MESH, 0-5'
0550 60112	2	\$3,661.00	\$14,644.00	4.000	EA	N	FENCE GATE, TYP A, SGL, 6.1-12' OPENING
0550 60124	1	\$2,053.02	\$2,053.02	1.000	EA	N	FENCE GATE, TYP A, DBL, 18.1-20.' OPENING
0550 60133	2	\$1,725.00	\$3,450.00	2.000	EA	N	FENCE GATE, TYP A, SLIDE/CAN, 12.1-18.'
0550 60134	1	\$2,200.00	\$15,400.00	7.000	EA	N	FENCE GATE, TYP A, SLIDE/CAN, 18.1-20.'
0550 60135	1	\$1,850.00	\$5,550.00	3.000	EA	N	FENCE GATE, TYP A, SLIDE/CAN, 20.1-24.0'
0550 60211	4	\$798.34	\$4,790.04	6.000	EA	N	FENCE GATE, TYP B, SGL, 0- 6.0' OPENING
0550 60212	1	\$977.57	\$2,932.71	3.000	EA	N	FENCE GATE, TYP B, SGL, 6.1-12.0' OPENING
0550 60213	2	\$1,275.00	\$5,100.00	4.000	EA	N	FENCE GATE, TYP B, SGL, 12.1-18.0' OPENING
0550 60214	1	\$1,400.00	\$2,800.00	2.000	EA	N	FENCE GATE, TYP B, SGL, 18.1-20.0' OPENING
0550 60222	3	\$1,900.00	\$9,500.00	5.000	EA	N	FENCE GATE, TYP B, DBL, 6.1-12.0' OPENING
0550 60223	1	\$1,515.00	\$3,030.00	2.000	EA	N	FENCE GATE, TYP B, DBL, 12.1-18.0' OPENING
0550 60224	2	\$1,092.50	\$7,647.51	7.000	EA	N	FENCE GATE, TYP B, DBL, 18.1-20.0' OPENING
0550 60225	3	\$1,146.78	\$3,440.33	3.000	EA	N	FENCE GATE, TYP B, DBL, 20.1-24' OPENING
0550 60226	1	\$2,000.00	\$12,000.00	6.000	EA	N	FENCE GATE, TYP B, DBL, 24-30' OPENING
0550 60227	1	\$3,500.00	\$49,000.00	14.000	EA	N	FENCE GATE, TYP B, DBL, > THAN 30' OPENING
0550 60232	1	\$3,500.00	\$3,500.00	1.000	EA	N	FENCE GATE, TYP B, SLIDE/CANT, 6.1-12' OPEN
0550 60234	3	\$4,300.06	\$17,200.24	4.000	EA	N	FENCE GATE, TYP B, SLIDE/CANT, 18.1-20' OPEN
0550 60235	4	\$3,152.72	\$31,527.16	10.000	EA	N	FENCE GATE, TYP B, SLIDE/CANT, 20.1-24' OPEN
0550 60236	1	\$3,200.00	\$12,800.00	4.000	EA	N	FENCE GATE, TYP B, SLIDE/CANT, 24.1-30' OPEN
0550 60237	2	\$3,922.15	\$74,520.94	19.000	EA	N	FENCE GATE, TYP B, SLI CANT, > THAN 30'
0550 60400	1	\$1,200.00	\$1,200.00	1.000	EA	N	FENCE GATE, RESET EXISTING
0550 60412	1	\$650.00	\$1,300.00	2.000	EA	N	FENCE GATE, WOOD, SINGLE, 6.1-12.0' OP
0550 60424	1	\$1,100.00	\$1,100.00	1.000	EA	N	FENCE GATE, WOOD, DOUBLE, 18-20 OPEN
0550 60912	1	\$1,950.00	\$1,950.00	1.000	EA	N	FENCE GATE, SPEC A, SGL, 6.1-12' OPENING
0550 60927	1	\$2,500.00	\$2,500.00	1.000	EA	N	FENCE GATE, SPE, DOUBLE, >30' OPENING

Florida Department of Transportation
Item Average Unit Cost
From 2016/04/01 to 2017/03/31

Contract Type: CC STATEWIDE
Displaying: VALID ITEMS WITH HITS
From: 0102 1 To: 999999

LTC item 11 - Sign

Item	No. of Conts	Weighted Average	Total Amount	Total Quantity	Unit Meas	Obs?	Description
0684 7	2	\$31,421.96	\$157,109.82	5.000	EA	N	MANAGED ETHERNET HUB SWITCH
0685 1 11	14	\$6,241.27	\$486,818.96	78.000	EA	N	UPS POWER SUPPLY, F&I, LINE INTERACTIVE
0685 1 13	2	\$6,066.56	\$24,266.25	4.000	EA	N	UPS, F&I, ONLINE DOUBLE CONVERSION
0687 1 12	1	\$25,000.00	\$50,000.00	2.000	EA	N	HIGHWAY ADVISORY RADIO, F&I, AC POWERED
0687 1 50	1	\$7,520.00	\$7,520.00	1.000	EA	N	HIGHWAY ADVISORY RADIO, MODI, AC POWERED
0687 1 60	1	\$1,200.00	\$2,400.00	2.000	EA	N	HIGHWAY ADVISORY RADIO, REMOVE
0695 1 1	38	\$1,470.78	\$442,705.09	301.000	EA	N	TMS VEH SNR-NON-WEIGHT, F&I,
0695 3 11	3	\$5,515.00	\$33,090.00	6.000	AS	N	TMS VEH SPEED/CLASS UNIT, F&I,
0695 5 1	1	\$3,100.00	\$3,100.00	1.000	EA	N	TMS VEH SOLAR POWER UNIT, F&I,
0695 6 12	39	\$1,280.31	\$426,344.45	333.000	EA	N	TMS IND LOOP ASSEMBLY
0695 7131	3	\$4,391.64	\$30,741.50	7.000	EA	N	TMS CABINET, F&I, TYP 3 BASE MOUNT
0695 7132	17	\$4,181.59	\$137,992.32	33.000	EA	N	TMS CABINET, F&I, TYP 3 PEDESTAL
0695 7141	7	\$5,279.36	\$8,072.99	11.000	EA	N	TMS CABINET, F&I, TYP 4 BASE
0695 7600	12	\$401.31	\$8,828.84	22.000	EA	N	TMS CABINET, REMOVE
0700 1 11	146	\$349.52	\$1,832,527.43	5,243.000	AS	N	SINGLE POST SIGN, F&I GM, <12 SF
0700 1 12	101	\$1,043.36	\$1,530,610.68	1,467.000	AS	N	SINGLE POST SIGN, F&I GM, 12-20 SF
0700 1 13	50	\$1,391.25	\$475,808.37	342.000	AS	N	SINGLE POST SIGN, F&I GM, 21-30 SF
0700 1 14	6	\$2,282.00	\$93,562.11	41.000	AS	N	SINGLE POST SIGN, F&I GM, 31+ SF
0700 1 21	4	\$658.33	\$3,950.00	6.000	AS	N	SINGLE POST SIGN, F&I BARR MT, LT 12 SF
0700 1 22	5	\$3,194.30	\$201,240.83	63.000	AS	N	SINGLE POST SIGN, F&I BARR MT, 12-20 SF
0700 1 31	5	\$2,326.39	\$55,833.31	24.000	AS	N	SINGLE POST SIGN, F&I BRG MNT, <12 SF
0700 1 32	2	\$3,733.18	\$41,065.00	11.000	AS	N	SINGLE POST SIGN, F&I BRG MNT, 12-20 SF
0700 1 33	1	\$1,877.82	\$1,877.82	1.000	AS	N	SINGLE POST SIGN, F&I BRG MNT, 21-30 SF
0700 1 50	107	\$174.69	\$138,177.92	791.000	AS	N	SINGLE POST SIGN, RELOCATE
0700 1 60	142	\$30.72	\$143,511.29	4,672.000	AS	N	SINGLE POST SIGN, REMOVE
0700 2 11	4	\$3,454.00	\$34,540.00	10.000	AS	N	MULTI- POST SIGN, F&I GM, <12 SF
0700 2 12	24	\$3,157.24	\$173,648.19	55.000	AS	N	MULTI- POST SIGN, F&I GM, 12-20 SF
0700 2 13	27	\$3,561.07	\$284,885.31	80.000	AS	N	MULTI- POST SIGN, F&I GM, 21-30 SF
0700 2 14	37	\$4,446.05	\$551,310.45	124.000	AS	N	MULTI- POST SIGN, F&I GM, 31-50 SF
0700 2 15	28	\$6,133.56	\$588,821.81	96.000	AS	N	MULTI- POST SIGN, F&I GM, 51-100 SF
0700 2 16	11	\$11,571.08	\$705,835.94	61.000	AS	N	MULTI- POST SIGN, F&I GM, 101-200 SF
0700 2 17	8	\$14,139.51	\$325,208.62	23.000	AS	N	MULTI- POST SIGN, F&I GM, 201-300 SF
0700 2 18	3	\$13,343.75	\$106,750.00	8.000	AS	N	MULTI- POST SIGN, F&I GM, 301-400 SF
0700 2 50	23	\$3,405.20	\$153,234.12	45.000	AS	N	MULTI- POST SIGN, RELOCATE
0700 2 60	57	\$817.16	\$279,468.22	342.000	AS	N	SIGN PANEL, F&I GM, UP TO 12 SF
0700 3101	27	\$215.37	\$50,396.58	234.000	EA	N	SIGN PANEL, F&I GM, 12-20 SF
0700 3102	3	\$283.75	\$1,135.00	4.000	EA	N	SIGN PANEL, F&I GM, 21-30 SF
0700 3103	1	\$600.00	\$600.00	1.000	EA	N	SIGN PANEL, F&I OM, UP TO 12 SF
0700 3201	48	\$520.62	\$148,378.11	285.000	EA	N	SIGN PANEL, F&I OM, 12-20 SF
0700 3202	15	\$734.67	\$39,672.33	54.000	EA	N	SIGN PANEL, F&I OM, 12-20 SF

