

WEST PASCO CLASS III LANDFILL FINANCIAL ASSURANCE CLOSURE AND LONG-TERM CARE ESTIMATES

Facility I.D. Number 45799 Permit No. 26254-003-SO/T3

Prepared for:

Pasco County Utilities 14230 Hays Road Spring Hill, FL 34610

Prepared by:

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August 2018

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JMG Engineering, Inc. has prepared this Financial Assurance Closure and Long-Term Care Cost Estimate document for the Class III Construction and Demolition Debris landfill cells located at the West Pasco Solid Waste Facility (WACS No. 45799) in accordance with Rule 62-701.630, F.A.C. The cost estimates were completed using FDEP Form 62-701.900 (28) and signed by the authorized representative of the Owner of the facility and signed and sealed by the Engineer of Record. These forms are provided in Part 2 of this report.

Accompanying the cost estimate forms is a Cost Estimate Report provided in Part 3. The Report includes general information regarding the cost estimates, the assumptions and calculations used in preparing the cost estimates, and the unit cost references associated with each line item. The source information for the cost references and contractors' quotes used in Part 3 is provided in Part 4. JMG either requested unit costs from third party vendors/contractors, or used unit costs from RS Means construction cost estimating manuals and adjusted the unit cost for the Tampa, Florida area.

Unit cost estimates for closure and long-term care of the facility are being calculated in accordance with the February 2015 revisions to FDEP 62-701.630(3)(d).



PART 2

FINANCIAL ASSURANCE COST ESTIMATE FORMS



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NONNENTAL PROTECTION
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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: WACS ID: 45799 Facility Name: West Pasco Class III Landfill Expiration Date: 11/22/2033 Permit Application or Consent Order No.: 26254-003-SO/T3 Facility Address: 14230 Hays Road, Spring Hill, FL 34610 Permittee or Owner/Operator: Pasco County Utilities Mailing Address: same 28° 22' 30 " Longitude: 82° 34' Latitude: Coordinate Method: Datum: Collected by: Company/Affiliation: Solid Waste Disposal Units Included in Estimate: If closed: Date Unit Active Life of If closed: Began Unit From Date If active: Date last Official Accepting of Initial Receipt Remaining waste date c/f Phase / Cell Acres Waste of Waste life of unit received closing 5 Cell 1 Jun 1990 11.92 0 N/A N/A 5 Cell 2 May 2002 15.52 0 N/A N/A Cell 3 5 not in use N/A N/A Cell 4 5 Jul 1990 0.4 N/A N/A 38 Total Total disposal unit acreage included in this estimate: Closure: 20 Long-Term Care: 20 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 M 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 Northeast District Central District Southwest District South District Southeast District 160 Government Center 7825 Baymeadows Way, Ste. B200 3319 Maguire Blvd., Ste. 232 13051 N. Telecom Pky. 2295 Victoria Ave., Ste. 364 400 N. Congress Ave., Ste. 200 Fort Myers, FL 33901-3881 Pensacola, FL 32502-5794 Jacksonville, FL 32256-7590 Orlando, FL 32803-3767 Temple Terrace, FL 33637 West Falm Beach, FL 33401 850-595-8360 904-807-3300 407-894-7555 561-681-6600 813-632-7600 239-332-6975

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 ajustment below.

(a) Inflation Factor Adjustment

X (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 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 D				
Latest Department Approved Closing Cost Estimate:	Current Year Infla Factor, e.g. 1.0			Inflation Adjusted Closing Cost Estimate:
	×		=	
his adjustment is based on the D	Department approved log	ng-term care cost estim	ate dated:	
atest Department Approved Annual Long-Term Care Cost Estimate:	Current Year Infla Factor, e.g. 1.0			Inflation Adjusted Annua Long-Term Care Cost Estimate:
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	ong-Term Care Cost Es		=	
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Inflation Adjusted Lo Signature by: Signature	Owner/Operator	stimate:	= (check what i st Davis Blvd., S , FL 33606 City, S gjmg-eng.com	Address State, Zip Code

IV. ESTIMATED CLOSING COST (check what applies)

Ճ 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 ext

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 item estimates may be required.

			Number		
Description	1	Unit	of Units	Cost / Unit	Total Cost
1. Propos	ed Monitoring Wells	(Do not inclu	ude wells already	y in existence.)	
		EA	0	\$0.00	
			Subtotal F	Proposed Monitoring Wells:	
2. Slope an	nd Fill (bedding layer	between wast	e and barrier lay	ver):	
Excav	ration	CY			
Placer	ment and Spreading	CY	33,880	\$4.50	\$152,460.00
Comp	action	CY	33,880	\$0.89	\$30,153.20
Off-Sit	te Material	CY	33,880	\$12.90	\$437,052.00
Delive	ery	CY			
				Subtotal Slope and Fill:	\$619,665.20
3. Cover M	laterial (Barrier Layer):			
Off-Sit	te Clay	CY			
Synthe	etics - 40 mil	SY	101,640	\$5.50	\$559,020.00
Synthe	etics - GCL	SY			
Synthe	etics - Geonet	SY			
Synthe	etics - Other (explain)				
				Subtotal Cover Material:	\$559,020.00
4. Top Soi	Cover:	-		a temperature de la construction de	
Off-Si	te Material	CY			
Delive	ery	CY	50,820	\$12.90	\$655,578.00
Sprea	d	CY	50,820	\$5.00	\$254,100.00
				Subtotal Top Soil Cover:	\$909,678.00
5. Vegetati	ive Layer				
Soddi	ng	SY	101,640	\$2.75	\$279,510.00
Hydro	seeding	AC			
Fertiliz	zer	AC			_
Mulch		AC			
Other	(explain)				
				Subtotal Vegetative Layer:	\$279,510.00
6. Stormw	ater Control System:	-			
Earth		CY			
Gradi		SY			
Piping	•	LF			
Ditche		LF			
Berms		LF			
Contro	ol Structures	EA			
	(explain)				
			Subtotal	Stormwater Control System:	

through the second s		Number			4
Description	Unit	of Units	Co	ost / Unit	Total Cost
7. Passive Gas Control:					
Wells	EA				
Pipe and Fittings	LF		_		
Monitoring Probes	EA				
NSPS/Title V requirements	LS	_1			
			Subtotal I	Passive Gas Control:	
8. Active Gas Extraction Control:					
Traps	EA		-		
Sumps	EA				
Flare Assembly	EA				
Flame Arrestor	EA		_		
Mist Eliminator	EA				
Flow Meter	EA		110		
Blowers	EA				
Collection System	LF				
Other (explain)					
		Subtotal	Active Ga	as Extraction Control:	
9. Security System:					
Fencing	LF				
Gate(s)	EA	-			
Sign(s)	EA	1		\$2,000.00	\$2,000.00
			Subt	otal Security System:	\$2,000.00
10. Engineering:					
Closure Plan Report	LS		5	\$60,000.00	\$60,000.00
Certified Engineering Drawings	LS	1		\$60,000.00	\$60,000.00
NSPS/Title V Air Permit	LS	1 1 1			
Final Survey	LS	1		\$30,000.00	\$30,000.00
Certification of Closure	LS	1		\$40,000.00	\$40,000.00
Other (explain) bidding svcs	LS	1		\$30,000.00	\$30,000.00
				Subtotal Engineering:	\$220,000.00
Description Hours	Co	st / Hour	Hours	Cost / Hour	Total Cos
11. Professional Services					
	Manageme	ent	Qualit	y Assurance	
P.E. Supervisor					

Contract Management Number Description Unit of Units Cost / Unit Total Co		0		10000	Subtotal Professional	Services: \$250,000.00
On-Site Technician	Quality Assurance	Testing	LS	1	\$50.000.00	\$50,000.00
On-Site Technician	Description		Unit			Total Cost
On-Site Technician			-			
	Other (explain)	1	5	\$200,00		\$200,000.00
	On-Site Technician					
	Office Engineer					

	Subtotal of 1-11 Above	\$2,839,873.20
12.	Contingency % of Subtotal of 1-11 Above	\$141,993.66
	Subtotal Contingency	\$141,993.66
	Estimated Closing Cost Subtotal	\$2,981,866.86
	Description	Total Cost
13.	Site Specific Costs	
	Mobilization	
	Waste Tire Facility	
	Materials Recovery Facility	
	Special Wastes	
	Leachate Management System Modification	
	Other (explain)	
	Subtotal Site Specific Costs	5:

TOTAL ESTIMATED CLOSING COSTS (\$): \$2,981,866.86

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 X 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 entries left blank.

Description	Sampling Frequency (Events / Year)	Number of Wells	(Cost / Well) / Event	Annual Cost
1. Groundwater Monitor	ing [62-701.510(6), and (8)(a)]		
Monthly	12			
Quarterly	4			
Semi-Annually	2	13	\$278.61	\$7,243.86
Annually	1			
2. Surface Water Monito	oring [62-701.510(4), and		Groundwater Monitoring:	\$7,243.86
Monthly	12			
Quarterly	4			
Semi-Annually	2			
Annually	1			
,,		Subtotal S	Surface Water Monitoring:	
3. Gas Monitoring [62-70	01.400(10)]			
Monthly	12			
Quarterly	4			
Semi-Annually	2			
Annually	1			
			Subtotal Gas Monitoring:	
4. Leachate Monitoring	[62-701.510(5), (6)(b) and	62-701.510(8)c]		
Monthly	12			
Quarterly	4			-
Semi-Annually	2			
Annually	1			
Other (explain)	1	1	\$350.00	\$350.00
Annual TCLP analysis		Subt	otal Leachate Monitoring:	
		Number of		
Description	Unit	Units / Year	Cost / Unit	Annual Cost
5. Leachate Collection/ Maintenance	Treatment Systems Main	tenance		
Collection Pipes	LF			
Sumps, Traps	EA			-
Lift Stations	EA			
Cleaning	LS	1	\$9,000.00	\$9,000.00
			\$3,000.00	\$5,000.00
Tanks	EA			

A State State of Stat	1000	Number of		
Description	Unit	Units / Year	Cost / Unit	Annual Cost
5. (continued)				
mpoundments				
Liner Repair	SY			
Sludge Removal	CY			
Aeration Systems				
Floating Aerators	EA			
Spray Aerators	EA			
Disposal				
Off-site (Includes	1000 gallon	450	\$4.04	\$1,818.00
ransportation and disposal)		Subtotal Leacha	te Collection / Treatment Systems Maintenance:	\$10,818.00
6. Groundwater Monitoring W	ell Maintenance			
Monitoring Wells	LF	1 1 1 <u></u>		
Replacement	EA	0.5	\$4,500.00	\$2,250.00
Abandonment	EA	0.5	\$600.00	\$300.00
	Subto	tal Groundwater Moni	toring Well Maintenance:	\$2,550.00
7. Gas System Maintenance				
Piping, Vents	LF	Acres 1		
Blowers	EA			
Flaring Units	EA			
Meters, Valves	EA			
Compressors	EA			
Flame Arrestors	EA			
Operation	LS	_1	1	
		Subtotal G	as System Maintenance:	
8. Landscape Maintenance				
Mowing	AC	180	\$20.00	\$3,600.00
Fertilizer	AC			
		Subtotal	Landscape Maintenance:	\$3,600.00
9. Erosion Control and Cove	r Maintenance			
Sodding	SY	9.000	\$2.75	\$24,750.00
Regrading	AC	0.125	\$9.600.00	\$1,200.00
Liner Repair	SY			
Clay	CY			
	Su	btotal Erosion Control	and Cover Maintenance:	\$25,950.00
10. Storm Water Managemen	nt System Maintena	ance		
Conveyance Maintenance	LS	_1	\$1,800.00	\$1,800.00
	Subtotal St	torm Water Manageme	ent System Maintenance:	\$1,800.00
11. Security System Mainter	nance			
Fences	LR	1	\$1,290.00	\$1,290.00
Gate(s)	EA			
Sign(s)	EA			
		Subtotal Secu	rity System Maintenance	\$1,290,00

		Number of		
Description	Unit	Units / Year	Cost / Unit	Annual Cost
12. Utilities	LS	_1	\$6,000.00	\$6,000.00
			Subtotal Utilities:	\$6,000.00
13. Leachate Collection/Trea	tment Systems O	peration		
Operation				
P.E. Supervisor	HR	- C <u></u> C		
On-Site Engineer	HR			
Office Engineer	HR	24	\$105.00	\$2,520.00
OnSite Technician	HR	200	\$60.00	\$12,000.00
Materials	LS	1		
	Subtotal Le	achate Collection/Trea	tment Systems Operation:	\$14,520.00
14. Administrative				
P.E. Supervisor	HR	24	\$160.00	\$3,840.00
On-Site Engineer	HR	40	\$120.00	\$4,800.00
Office Engineer	HR	40	\$105.00	\$4,200.00
OnSite Technician	HR	80	\$60.00	\$4,800.00
Other surveyor	HR	40	\$95.00	\$3,800.00
			Subtotal Administrative:	\$21,440.00
			Subtotal of 1-14 Above:	\$95,561.86
15. Contingency	10	% of Subtotal of 1-14	Above	\$9,556.19
			Subtotal Contingency:	\$9,556.19
		Number of		1.4.1.7.1.1
Description	Unit	Units / Year	Cost / Unit	Annual Cost
16. Site Specific Costs				
				_
		S	ubtotal Site Specific Costs:	
	А	NNUAL LONG-TERM	CARE COST (\$ / YEAR):	\$105,118.05
		Number of	Years of Long-Term Care:	30

TOTAL LONG-TERM CARE COST (\$): \$3.153.541.38

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 Jason Gorrie Name and Title (please type) NILLINGON M. CI 8/27/2018 55341 THUNK (please affix seal) ATE OF VII. SIGNATURE BY OWNER OPE OR

Signature of Applicant

Signature of Applicant

Robert Sigmond Name and Title (please type)

rsigmond@pascocountyfl.net E-Mail address (if available) 238 East Davis Blvd., Suite 206 Mailing Address

Tampa, FL 33606 City, State, Zip Code

jason@jmg-eng.com E-Mail address (if available)

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Telephone Number

19420 Central Blvd., Suite 219 Mailing Address

Land O' Lakes, FL 34637 City, State, Zip Code

(813) 235-6196

Telephone Number

PART 3

COST ESTIMATE REPORT



CLOSURE COST ESTIMATES REPORT

August 2018

Pursuant to Rule 62-701.630(4)(b) F.A.C., unit cost estimates for closure and long-term care of the facility are being calculated in accordance with the February 2015 revisions to FDEP 62-701.630(3)(d), F.A.C. Note that some of the quantities have been obtained from previously calculated and approved Financial Assurance Cost Estimates (FACE).

GENERAL INFORMATION AND ASSUMPTIONS

Surface area of Class III Cells = ~ 20 acres

For Closure Items 2 through 4, assume an overall loss factor of 5% to count for soil losses & testing, geosynthetics losses & testing, and miscellaneous materials uses (such as installation of anchor trenches) during construction.

Geosynthetics:

Area (incorporating 5% loss factor) = 21 acres = 914,760 ft² = 101,640 yd²

Soils:

914,760 ft² x 0.5 ft (6") cover = 457,380 ft³ / 27 = 16,940 yd³ 914,760 ft² x 1.0 ft (12") cover = 914,760 ft³ /27 = 33,880 yd³ 914,760 ft² x 1.5 ft (18") cover = 1,372,140 ft³ /27 = 50,820 yd³

Unit Cost Estimations and Calculations:

All unit costs are explained in the following parts for each item. The RS Means 2017 Heavy Construction Cost Data 31st Annual Edition was used to estimate some unit costs. The cost references third party contractors' quotes, recent construction costs at nearby landfills, and RS Means pages have been provided in Part 4.

CLOSURE COSTS

Item No. 1 Proposed Monitoring Wells

There are 13 existing monitoring wells at the site. No additional monitoring wells are proposed for closure.

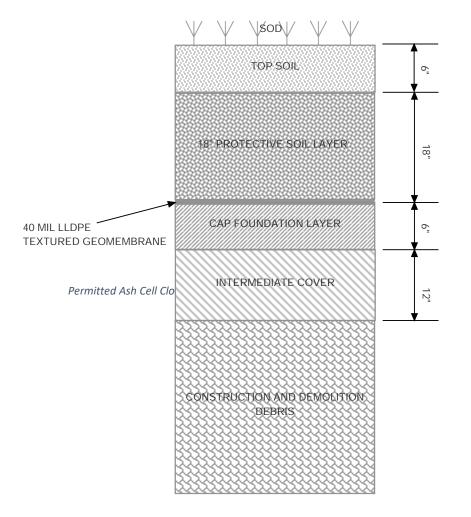
Item No. 2 Slope and Fill

The slope and intermediate cover will be maintained during the operation of the landfill. During closure, there will be a need to shape and compact the intermediate cover existing at the time of closure. The currently approved closure design for the landfill is depicted in **Figure 1**. These design concepts were used to generate grading/compaction costs associated with the intermediate cover and cap foundation layer. Soil quantities were increased by an additional 5% to account for shrinkage & bulking losses.



Quantity of 18" soil fill (intermediate cover + cap foundation layer) = 50,820 CY

Off-site soils will be purchased and delivered for closure purposes. Unit cost estimates are based on a third party quotations and on RS Means 2017 Heavy Construction Cost Data 31st Annual Edition.





Item No. 3 Barrier Layer

The landfill barrier layers will consist of a layer of 40-mil textured LLDPE (linear low-density polyethylene) geomembrane as depicted in Figure 1.

Quantity of geosynthetics = 101,640 SY



Geosynthetics costs are based on bid pricing by a third party contractor. To verify this cost, third party contractors' quotations for landfill closure projects at similar landfill facilities in Florida were obtained and compared. The estimates used to determine unit cost for the installed geosynthetics are provided in Part 4 of this document.

Item No. 4 Final Cover Material

The quantity for this item was based on 18 inches of soil above the barrier layer. Also, soil quantities were increased by additional 5% to count for shrinkage & bulking losses.

Quantity of 18" protective soil layer = 50,820 CY

Final cover cost is based on bid pricing by a third party contractor and is compared to recent construction activities (March 2015) at the Hillsborough County SCLF. The 2015 bid price included the costs of excavation, transportation, placement, grading and compaction. To verify this cost, third party contractors' quotations for landfill closure projects at similar landfill facilities in Florida were obtained.

Item No. 5 Vegetative Cover

When closed, the landfill will be covered with 6" of top soil capable of supporting vegetative growth. The upper layer will be sodded.

Quantity of top soil (6") placed on top of final cover layer = 16,940 CY

Quantity of soil placed over top soil = 101,640 SY

Sodding cost is based on an April 2015 third party contractors quotations received on landfill closure projects for similar landfill facilities in the Tampa Bay area and from a Pasco County-specific quote provided by Comanco.

• Sodding unit cost from 2015 and 2017 contractor quotes = \$2.75 per SY

Item No. 6 Stormwater Control Systems

The currently approved closure design anticipates that the final contours of the landfill at closure will shed all stormwater to the existing perimeter swale system. An existing stormwater pond located just to the north of the landfill will receive stormwater from the existing swale system. No additional control systems will need to be constructed following closure.

Item No. 7 Passive Gas Control

Because no putrescible waste will be placed in the Class III cells, there is no potential for the generation of landfill gas and no gas control systems are envisioned.

Item No. 8 Active Gas Extraction Control

Because no putrescible waste will be placed in the Class III cells, there is no potential for the generation of landfill gas and no gas control systems are envisioned.



Item No. 9 Security System

Perimeter fencing, gates and signs already exist at the facility. A \$2,000 lump sum is allocated in the cost estimates for additional signs or fence modifications required at the time of closure.

Item No. 10 Engineering

The engineering costs associated with closing the ash cells and the solid waste cells is estimated to be approximately 5% of the closure costs, or approximately \$220,000.

Item No. 11 Professional Services

The cost for professional services related to contract management and quality assurance for closure is estimated to be approximately 6% of the closure costs, or approximately \$250,000.

Item No. 12 Contingency

A contingency of 5% is added to the subtotal of items 1 through 11.

Item No. 13 Site Specific Costs

There are no Site Specific Costs identified at this time



LONG TERM CARE COST ESTIMATE

August 2018

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

The West Pasco Class III Landfill has 13 groundwater monitoring wells that are sampled semiannually. Sampling and analysis is conducted by Pasco County Environmental Services. Included in Part 4 are the unit costs estimates provided by Pasco County Environmental Laboratory to obtain the required groundwater samples and to analyze them for the required constituents. Annual groundwater sampling and analysis is estimated to be **\$7,243.86**.

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

It is not anticipated that the existing stormwater system will discharge from the site. Accordingly, there is no cost associated with surface water monitoring.

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

Because the landfill only accepts non-putrescible waste, it is not anticipated to generate significant amounts of landfill gas. Accordingly, there is no cost associated with gas monitoring.

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

Currently, leachate is collected and pumped to the adjacent Shady Hills Wastewater Treatment Plant for disposal. The disposal site requires an annual demonstration that the leachate does not exhibit the toxicity characteristic defined at 40 CFR 261.24. The annual cost to conduct a TCLP analysis is approximately \$350.

Annual leachate monitoring is estimated to be \$350.

5. Leachate Collection/Treatment Systems Maintenance

Routine maintenance of the leachate collection system is a high-pressure cleaning of all laterals and collection mains every five years. A third-party contractor recently conducted this maintenance at a cost of \$3,200 (see **Part 4**). Though not deemed necessary following the last routine pressure cleaning, it is possible that additional video-inspection *could* become necessary in the future. Therefore, for purposes of estimating long-term care costs, Pasco County will apply a safety factor to this estimate and assume an annual cost of **\$9,000** per year.

Leachate from the landfill is currently collected in 2 lift stations and directly to the adjacent Shady Hills Wastewater Treatment Facility. The current charge-back price that Pasco County Utilities accepts the leachate for is \$4.04/thousand gallons (see **Part 4**).



Once the landfill is in long term care, the amount of leachate generated will be minimal because of the landfill cover. To approximate the amount of leachate that will be generated following installation of the final cover systems, leachate generation rates for the closed East Pasco Class I landfill were reviewed. The East Pasco Landfill was used for this analysis because the closure design is similar to that anticipated for the West Pasco Class III landfill. The portion of the East Pasco Landfill that incorporates a leachate collection system is approximately 80 acres in size. Monthly leachate generation rates for East Pasco show that the average monthly volume of leachate collected in the capped and closed landfill is approximately 150,000 gallons per month. Extrapolating this value out over a 12-month period results in an estimated annual leachate generation rate of 1.8 million gallons for the 80 acre closed landfill, or 22,500 gallons per year per acre. At \$4.04/thousand gallon disposal, this equates to approximately **\$1,818** per year in leachate disposal costs.

6. Groundwater Monitoring Well Maintenance

It is estimated that the construction of a new well, installed to a depth of approximately 30 feet (the average depth of a surficial aquifer monitoring well at the site) is approximately \$4,500. Assuming that all of the existing monitoring wells will at some point during the 30-year long term care period be replaced, total replacement cost will be \$58,500 (\$4,500 x 13 wells). For simplicity, it will be assumed that a new well will be conservatively assumed that a new well will be installed every other year over the 30 year long term care period, resulting in an estimated annual cost of **\$2,250**.

7. Gas System Maintenance

Because the landfill only accepts non-putrescible waste, it is not anticipated to generate significant amounts of landfill gas. Accordingly, there is no cost associated with gas system maintenance.

8. Landscape Maintenance

Pasco County Utilities will contract out the mowing and landscape services necessary at the landfill. **Part 4** provides the latest Bid Tabulation for the Request for Bid associated with the landscape maintenance activities. The prevailing bidder provided a cost of \$20/acre and the estimated acreage will be approximately 20 acres. Assuming a mowing frequency of 9 times per year, the annual cost associated with landscape maintenance is **\$3,600** (\$20/acre x 20 acres x 9 events/year).

9. Erosion Control and Cover Maintenance

It is estimated that approximately 1,000 square yards of the landfill surface area requires resodding every year. Assuming a conservative cost for sod of \$2.75 per square foot, the total estimated annual cost for re-sodding is approximately **\$24,750**.

To estimate the amount the amount of cover soil, it is assumed that 6 inches of soil will need to be placed and graded for every 0.125 acres of sod placed each year. This results in a required



volume of 0.125 acres x 0.5 ft x 43,560 ft²/acre = 2,723 ft³ = 100 cubic yds. Assuming a conservative unit rate of $12/yd^3$, the total annual cost for soil is estimated to be **\$1,200**. Assuming proper maintenance of the cover system, liner repairs are not anticipated.

The estimated total annual cost for cover soil and sod is approximately \$25,950

10. Stormwater Management System Maintenance

In order to maintain the stormwater system in its current capacity of precluding off-site discharges, it will be necessary to maintain the drainage swale system by removing vegetation from the swales. To accomplish this, it is assumed that a portion of the annual landscape maintenance costs can be applied to the stormwater system. For purposes of this estimate, it is assumed that annual swale maintenance can be achieved at approximately 50% of the annual landscape maintenance cost, or approximately **\$1,800**.

11. Security System Maintenance

The site security system consists of a 6' chain link fence and multiple rolling chain-link gates. It is estimated that there will be approximately 50 feet of fence that must be replaced each year for the 30 years of long term care, at a cost of approximately \$25 per linear foot. In addition, it is anticipated that 2 gates will need to be replaced at least once in the next 30 years. This results in an annual estimated cost of **\$1,290** (50 feet x $\frac{$25}{ft} + \frac{$1,200}{30}$ years).

12. Utility Costs

It is assumed that electricity from the Waste-to-Energy Facility will not be available during the long term care period of the landfill and that electrical power to operate the leachate pumps and other electrical equipment must be purchased from the local electric utility. A review of annual purchases from Withlacoochee Electrical Cooperative (included in Part 4) shows that the site currently purchases approximately \$1,000 worth of electricity monthly. Approximately half of that electricity is consumed by the scalehouse, which will not be in service during closure. Therefore it is assumed that the annual utility costs during closure will be **\$6,000** (\$500/month x 12 months)

13. Leachate Collection/Treatment System Operation

It is assumed that a part-time Operator will be assigned to the landfill throughout the closure period to maintain the leachate collection system and perform daily site security functions. At a fully loaded labor rate of \$60/hr and an anticipated 200 hrs per year of labor, this results in an annual cost of approximately \$12,000 per year. The part time Operator will be assisted by a part time Office Engineer. At a fully loaded labor rate of \$105/hr and an anticipated 24 hrs per year of labor, this results in an annual cost of approximately \$2,520.00 per year. The overall estimated annual operating labor costs are expected to be approximately **\$14,520** per year

14. Administrative

To administer the regulatory obligations of the closed landfill during the long term care period (such as maintaining compliance with the Long Term Care Permit, assessing the condition of the



closed landfill, preparing an annual survey, etc.), a number of Administrative functions are necessary. The total annual estimate for these functions (as broken out on Form 62-701.900(28)) is **\$21,440**.



PART 4

UNIT COST REFERENCES



5/23/16 2:30 PM LANDFILL COVER MATERIAL - AA BID NO. IFB-EC-16-130

	* The above price is for purchase & delivery of	
10	ω	Delivery: <u>Calendar</u> Days after Receipt of Purchase Order.
\$ 14.50	\$ 12.90	Sand Cover Materials Delivered to: West Pasco County Class I Sanitary Landfill 14230 Hays Road Spring Hill, Florida Per the specifications, on an as- needed basis.
Cost per Cubic Yard	Cost per Cubic Yard	Description
BROOKSVILLE, FL	COLEMAN, FL	
RON MORSE TRACTOR SERVICE LLC	CENTRAL FLORIDA TRANSPORT, LLC	

clean fill material.

Closure 2. Slope and Fill Off-Site Maturial 4. Top Soil Cover Dlivery

23 Excavation and Fill

- Fill	Daily Labor-	2017 Bare Costs	nent Tot	al Incl O	&P
Hauling	CIEW OUIPOI HOUSE	the state in the local data in the local data and the second data and t	3.78	5.47	6.70
25 MPH ave cycle 4 miles	Doll 210				7.30
				6.55	8.05
				7.30	8.95
				5.47	6.70
					7.30
	198 .040				8.05
	180 .044				8.95
	162 .049				6.20
					6.70
35 MPH ave, cycle 4 miles					7.30
					8.05
		2.02			
cycle 10 miles		2.89			11.45
cycle 20 miles		3.37			13.40
cycle 30 miles		4.05	9.05		16.05
cycle 40 miles		1.69	3.78	5.47	6.70
			4.12	5.96	7.30
				6.55	8.05
				8.18	10.05
					13.40
					16.05
					20
					6.70
	216 .037				7.30
	198 .040				10.05
	144 .056				11.45
					13.40
		3.37			
cycle 40 miles		4.05			16.05
cycle 50 miles		1.84	4.12		7.30
50 MPH ave, cycle 10 miles		2.25	5.05		8.95
cycle 20 miles		2.89	6.45	9.34	11.45
			7.55	10.92	13.40
			9.05	13.10	16.05
cycle 50 miles	90 .009 F:11 - CO	mactio	n		
J.10 44111	ope and int			40	.52
OMPACTION	B-10Y 3000 .004 E.C.Y.				.68
Riding, vibrating roller, 6" litts, 2 passes					
3 passes		.31			.82
4 passes		.14			.38
8" lifts, 2 passes		.11	.12		.30
		.17	.17	.34	.4
		.23	.23	.46	
				.78	.9
Shaensfoot or wabbly wheel roller, 6" lifts, 2 posses					1.3
					1.7
	2600 .005				
4 passes Towed sheepsfoot or wobbly wheel roller, 6" lifts, 2 passes	B-10D 10000 .001	.0	-		
T I have the to the working wheel roller of ITTS (UUSSES		.2	.9 .9	-	
	2000 .006		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
3 passes 4 passes	2000 .008	.3	1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	2 1.6 1 .4	
	Hauling 25 MPH ove, cycle 4 miles cycle 6 miles cycle 10 miles 30 MPH ove, cycle 4 miles cycle 6 miles cycle 10 miles 35 MPH ove, cycle 4 miles cycle 10 miles 35 MPH ove, cycle 4 miles cycle 10 miles cycle 10 miles cycle 20 miles cycle 30 miles cycle 40 miles cycle 20 miles cycle 20 miles cycle 30 miles cycle 20 miles cycle 30 miles cycle 30 miles cycle 20 miles cycle 30 miles cycle 30 miles cycle 20 miles cycle 30 miles cycle 30 miles cycle 30 miles cycle 20 miles cycle 30 miles cycle 30 miles cycle 30 miles cycle 40 miles cycle 30 miles	Hauling Crew Dupp Nume Material 25 Mare, role 4 miles 9341 216 037 LCV. 26 Mare, role 4 miles 198 040 role 3 198 040 cycle 8 miles 162 049 216 037 100	Hauling Cere Output Notes Unit Material User Equipation 25 MPH ne, cycle 4 miles 198 0.00 1.84 2.02 1.84 cycle 8 miles 180 0.44 2.022 2.03 2.04 2.022 cycle 10 miles 216 0.37 1.45 3.0 2.04 2.022 cycle 6 miles 102 0.44 2.022 2.04 2.025 cycle 6 miles 108 0.44 2.025 2.04 2.03 1.45 35 MPH ne, cycle 4 miles 124 0.04 2.025 2.04 2.025 2.04 2.025 2.04 2.03 2.04 2.025 2.04 2.025 2.04 2.025 2.04 2.025 2.04 2.025 2.04 2.04 2.025 2.04 2.025 2.04 2.04 2.025 2.04 2.025 2.04 2.03 2.04 2.025 2.04 2.04 2.025 2.04 2.04 2.04 2.025 <t< td=""><td>Hauling Cire Daily Like Unit Material Idea Equipment Interior 25 MPT one, opte 4 miles 98.44 216 93.74 1.69 3.74 25 MPT one, opte 4 miles 180 0.44 2.22 4.53 opte 10 miles 162 0.49 2.25 5.05 opte 10 miles 162 0.49 2.25 5.05 opte 10 miles 163 0.44 2.02 4.33 opte 6 miles 124 0.49 2.25 5.05 opte 6 miles 126 0.49 2.25 5.05 opte 6 miles 126 0.44 2.02 4.33 opte 6 miles 126 0.44 2.02 4.33 opte 6 miles 126 0.44 2.02 4.33 opte 6 miles 126 0.03 2.89 6.45 opte 6 miles 126 0.03 2.89 6.45 opte 6 miles 126 0.37 1.69 3.78 opte</td><td>Unity Unity Unity Material Unity State State</td></t<>	Hauling Cire Daily Like Unit Material Idea Equipment Interior 25 MPT one, opte 4 miles 98.44 216 93.74 1.69 3.74 25 MPT one, opte 4 miles 180 0.44 2.22 4.53 opte 10 miles 162 0.49 2.25 5.05 opte 10 miles 162 0.49 2.25 5.05 opte 10 miles 163 0.44 2.02 4.33 opte 6 miles 124 0.49 2.25 5.05 opte 6 miles 126 0.49 2.25 5.05 opte 6 miles 126 0.44 2.02 4.33 opte 6 miles 126 0.44 2.02 4.33 opte 6 miles 126 0.44 2.02 4.33 opte 6 miles 126 0.03 2.89 6.45 opte 6 miles 126 0.03 2.89 6.45 opte 6 miles 126 0.37 1.69 3.78 opte	Unity Unity Unity Material Unity State State

For customer support on your Heavy Construction Costs with RSMeans Data, call 800.448.8182.

Jason Gorrie

From: Sent: To: Subject: Attachments: David Scherbaty <dscherbaty@comanco.com> Wednesday, December 27, 2017 11:33 AM Jason Gorrie Pasco Co. LF Closure Budget Numbers Pasco Co. LF - Closure Budget.pdf

Jason,

It was great talking with you earlier. Per our conversation attached please find some closure budgetary numbers. These numbers assume that the site has an on-site borrow source for the fill below the geomembrane layer and cover material will need to be imported. Geosynthetics will be per the standard Subtitle D closure with a 40-Mil Textured LLDPE and a Geocomposite. Hopefully these numbers help, but please let me know if you need anything else.

Also, if you're around in early January I'd love to get together to discuss any upcoming opportunities that you all might be working on. Please just let me know what your availability is.

Thanks, David



David Scherbaty | Director of Sales COMANCO Environmental Corporation 4301 Sterling Commerce Drive | Plant City, FL 33566 Office: 813-988-8829 | Cell: 813-323-3584 E-mail: <u>dscherbaty@comanco.com</u> | web: <u>www.comanco.com</u>

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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 ext

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 item estimates may be required.

		Number		
Description	Unit	of Units	Cost / Unit	Total Cost
1. Proposed Monitoring Wells		ide wells already	in existence.)	
	EA			
		Subtotal F	Proposed Monitoring W	ells:
2. Slope and Fill (bedding layer		e and barrier lay	er):	
Excavation	CY SY		1.00	-
Placement and Spreading	CY		4.50	-
Compaction	CY			
Off-Site Material	CY			
Delivery	CY			-
			Subtotal Slope and	d Fill:
3. Cover Material (Barrier Layer	·):			
Off-Site Clay	CY			-
Synthetics - 40 mil	SY		5.50	
Synthetics - GCL	SY			
Synthetics - Geonet	SY			
Synthetics - Other (explain)	SY		7.50	
Geocomposite			Subtotal Cover Mat	erial:
4. Top Soil Cover:				
Off-Site Material	CY		10.00	
Delivery	CY		4.00	
Spread	CY	· · · · · · · · · · · · · · · · · · ·	5.00	
			Subtotal Top Soil C	over:
5. Vegetative Layer				5 mar
Sodding	SY		2.75	
Hydroseeding	AC			
Fertilizer	AC			
Mulch	AC			
Other (explain)				
			Subtotal Vegetative L	ayer:
6. Stormwater Control System:				
Earthwork	CY			
Grading	SY			
Piping	LF			
Ditches	LF			
Berms	LF			
Control Structures	EA			
Other (explain)	_			

Prepared By: Candia E. Mulhern, Laboratory Manager Pasco County Environmental Laboratory Date: 2018 July 20

ANNUAL COST OF ANALYSIS FOR GWM AT West Pasco

SEMI-ANNUAL COSTS

Total Ammonia - N	\$13.00	26	\$338.00
Chlorides	\$6.00	26	\$156.00
Nitrate	\$7.00	26	\$182.00
TDS	\$7.00	26	\$182.00
Iron	\$10.00	26	\$260.00
Mercury	\$20.00	26	\$520.00
Sodium	\$10.00	26	\$260.00
40 CFR Pt. 258, APP I	\$110.00	26	\$2,860.00
*Mileage	\$0.575	492 miles	\$565.80
*Time	\$20.00	48 hours	\$1,920.00
Total Annual Cost			\$7,243.80

*Mileage and Sampling Time vary depending on environmental conditions. The hours and mileage are estimates.

Long Term Care 1. Groundwater Monitoring

Florida Jetclean - Jetclean America

Invoice

7538 Dunbridge Drive Odessa, FL 33556 800-226-8013

Svc Date	Due Date	Invoice #
6/4/2018	7/4/2018	12989

Dill	To	
Bill	10	

JMG Engineering, Inc. 238 E. Davis Blvd. Unit 206 Tampa FL 33606

S	h	i	p	Т	0

West Pasco Landfill Class II - Cells 1-4

P.O. No.	Terms	Project Information
Jason Gorrie	Net 30	LCS Pipe Jetclean

Date(s)	Description	Amount
5/4/18	High-pressure water-jetting of 4,540 LF of existing leachate collection pipe across 4 Class III Cells (12 Total Pipes), as instructed, and per approved proposal. *** Report Provided Separately To Jason Gorrie *** Long Term Care J. Long Term Care J. Leschete Collection / Trestm Cleaning	3,200.00
All work is comple	te! Total	\$3,200.0

- All major credit cards accepted with 4.5% processing fee.

- Please pay against invoice, no statement will be sent.

Closed East Pasco Landfill

		leachate
	month	generated
		(gallons)
	January-15	161,41
	February-15	124,94
	March-15	186,42
	April-15	147,19
	May-15	205,96
2015	June-15	192,44
20	July-15	356,50
	August-15	198,29
	September-15	126,22
	October-15	193,96
	November-15	148,29
_	December-15	141,52
	January-16	176,25
	February-16	152,87
	March-16	123,77
	April-16	111,970
	May-16	112,156
2016	June-16	294,595
20	July-16	173,185
	August-16	251,315
1	September-16	167,558
	October-16	108,194
	November-16	128,057
	December-16	109,913
	January-17	181,247
	February-17	132,662
	March-17	125,753
	April-17	64,413
	May-17	120,773
2017	June-17	67,979
20	July-17	122,779
	August-17	183,196
	September-17	164,691
Γ	October-17	99,420
T	November-17	49,663
	December-17	66,996
	January-18	125,978
	February-18	78,849
	March-18	136,362
_	Monthly Average =	149,072
		170,012

Long Term Cure Lezchate Collection Treatment Off site disposed

Jason Gorrie

From: Sent: To: Subject: Justin G. Roessler <jroessler@pascocountyfl.net> Thursday, August 9, 2018 8:32 AM Jason Gorrie; John Power Leachate Costs for Class III

Our wastewater chargeback costs for leachate disposal at shady are \$4.04 per k gal.



Justin Roessler, Ph.D. Assistant Solid Waste Director Utilities-Solid Waste Resource Recovery Facility Pasco County P 727-857-2780 F 727-861-3099 14230 Hays Rd., Spring Hill, FL 34610 jroessler@pascocountyfl.net www.pascocountyfl.net

"Serving our community to create a better future."



Long Term Care 5. Leschate Collectin / Trastment Off-site disposal

"Bringing Opportunities Home"

The information transmitted, including attachments, is intended only for the person(s) or entity to which it is addressed and may contain material that is confidential, privileged and/or exempt from disclosure under applicable law. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon this information by persons or entities other than the intended recipient is prohibited. If you received this in error, please contact the sender and destroy any copies of this information. <u>Under Florida law, email</u> addresses are public records. If you do not want your email address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact this office by phone or in writing.

Long Tern Core B. Landscape Maintinance Mowing

A. 50	A SOLID WASTE FACILITIES:	REEVESTAND		RANJANS TROPICALLAWN	-	LUKE BROTHERS	R A BURN	SUMMER LAND	ADDENDUN 2
		the instances	-	AND LANDSCAFE	INVIATION CO	INC	STRVICT SING	MANANCH ME 121	LANDSCAPING LLC
Rem No.	Description	DADE CITY, FL	-	LEESBURG, FL	TAMPA, H	HOLIDAY H	BROOKSWILLE FI		
		Cost Per Acre	-	Cost Per Acre	Cost Par Arra	Carlora		11 10100	11 ODOMOTIM
	Cast Pasco Sanday Landhil		-		ADM IN LOOM	Cost Per Acre	Cost Por Acre	Cost Per Acre	Cost Per Acre
-	Dade City Floreta	s s	\$ 00.00	18 00	\$ 2000 \$	\$ 24.00 \$	20.00	3 98.00	
	Approximately 115 Acres							00.07	
	East Pasco Transfer Station		+						
N	Dade City Horda	oc \$	\$ 60.0¢	35.00	\$ 75.00	\$ 27.00	3 25.00	e 17.00	
	Approximately 11 Marea		-						
	West Pasco Landid 14230 Hays Road		+						
3	Spring Hill Honda	\$ 20	20.00 \$	18 00 5	20.00	\$ 24.00	5 20.00		
	Approximately 160 Acces							00.07	
	Ridge Road Closed Landki		+						
	(Southeast Corner of Sam Miquel Drive and		-						
*	Galen Wilson Foulewards Port Richey Florida	\$ 20.00	\$ 00	20.00	\$ 20.00	\$ 25.00 \$	5 2500 S		
	Approximately 40 Acres		-						
	61 H								

BID NO. IFB-EC 15-177 HOG/MOWING AND SCARIFYING ANNUAL AWARD 7/7/15 @ 2-15PM

ande	e Rui
rane Bill	in offer
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Withlaco	

<u>Locations</u>	2011	2012	2013	2014	2015	2016	2017	
EPSL-Office Scalehouse-Singletary	71.80	78.61	80.25	64.91	63.21	64.80		
Resource Recovery Lift Station	21.55	21.79	21.15	24.18	26.07	26.05		
Resource Recovery Scale House	225.30	208.38	165.49	177.29	176.17	207.23		
Class III Maintenance Bldg.	441.43	476.19	472.62	489.37	774.64	847.38		
Class III Scalehouse	216.55	199.92	232.22	275.26	251.27	225.73		
Handcart Road - EPTS	1,009.79	1,011.18	938.48	954.12	758.17	823.08		
Resource Recovery Well House	1,881.88	1,547.15	1,330.11	1,169.45	1,336.45	1.567.51	1.325.46	(
Leachate Tanks - SW1	123.93	133.92	123.65	147.22	170.51	180.62	111.43	L
Leachate Tanks - Ash Cell	104.94	94.93	116.28	137.17	75.69	81.01	63.35	sn
Galen Wilson Blvd.	34.81	52.87	44.10	57.25	52.46	41.85	42.68	5
Auton Road - 4" Well	18.46	18.46	21.83	23.68	23.52	25.64	25.64	T
Hays Road - Lift Station - Class III	60.94	44.07	31.97	38.25	49.87	60.86	32 30	er
Hays Road - Lift Station - Class III	55.03	43.60	33.84	38.74	52 73	63.56	53.69	m
Auton Road - Leachate - Cell #5	ı	-	4	14		000	000	(
MRF Building	-	45.49	413.68	336.06	271.04	00.0	000	Ca
MRF Trailer	00.00	45.49	64.78	93.93	42.55	25.64	27.52	150
A-2 Cell	19.11	19.16	19.18	24.52	26.28	26.37	26.37	
Resource Recovery Compactors	84.63	70.10	28.83	49.03	0.00	0.00	0.00	-
Stormwater Pump SW2 (End: Dec 2009)		,				000	000	(
Stormwater Pump A3	4		,			0000	00.0)
RR- Tires	• •			38.83	42 31	46.42	0.00	f.
RR- Brush				40.52	46.05	54 57	41.14 60.05	•1
A-4 Lift Station (Oct. 2010)	,	1		158.31	210.09	144 20	82.28	<i>,</i> , ,
arn	1	1	r	42.69	26.47	26.47	26.57	in
er CL I	,			23.85	25.64	25.64	25.64	5
Class 3 CDO (Dec. 2011)	•	ı	,	24.77	26.59	26.57	26.57	
ays Rd.)		•	ı	281.99	287.69	316.52	274.97	
Hays W Scale (April 2012)		•	i	133.06	151.28	162.78	166.93	
N				174.85	163.75	179.39	191.85	
pactor	•	•	ł	248.06	249.46	229.26	237.57	
DC Well - EPTS (July 2013)	1		1	75.37	75.04	74.88	76.44	
Recycling Station - 14230 Hays Rd (Start: Nov 2014)		•	•		377.45	413.45	411.05	
TOTAL	6,381.16	6,123.30	6,151.45	7,356.71	7,847.45	7,983.43		

C:\Users\jason\AppData\Loca\Microsoft\Windows\INetCache\Content.Outlook\G0PEI1B2V WREC Historical Monthly Summary Report/

8/9/2018 8:43 AM

Avgs