

4014 NORTH WEST 13th STREET GAINESVILLE, FL 32609-1923 <u>www.kooglerassociates.com</u>

352.377.5822

Sent via Email: Michell.M.Smith@dep.state.fl.us

Michell Smith

Florida Department of Environmental Protection
Division of Waste Management - Solid Waste Section
2600 Blair Stone Road MS 4565
Tallahassee, Florida 32399 – 2400

RE: Annual Cost Estimate for Titan America – Pennsuco Tire Processing Facility

FDEP File No. WT13-0134354-001/WACS No. 100946

Dear Mr. Smith:

On behalf of Titan America, Koogler and Associates, Inc., is submitting the enclosed annual cost estimate update for the Titan America Pennsuco Tire Processing Facility as required by permit WT13-0134354-001, Section 2. B. G. 2 – Annual Cost Estimates and Chapter 62-711.500 F.A.C., Waste Tire Site Notification and Requirements. Enclosed with this submittal are the following documents:

- Closing cost estimate signed and sealed by a Florida licensed Professional Engineer;
- Third party cost estimate for the removal and disposal of tires; and
- Completed and executed Closing Cost Estimating Form for Solid Waste Facilities, FDEP Form 62-701.900(28).

This updated estimate documents that the current Guarantee Bond secured by a Trust Fund Agreement of \$29,513.76 exceeds the estimated closing costs and is therefore in compliance with Chapter 62-711.500 F.A.C. Please also note that Koogler is in the process of preparing the permit renewal application which is due by 11/25/2017. If you have any questions regarding this submittal, please contact me at (352) 377-5822 or treed@kooglerssociates.com.

Best regards,

Tammy L. Reed

Environmental Scientist II

Vaning Reed

/tlr

Enclosures

cc: Tor Bejnar – FDEP Financial Assurance Subsection (Email)

Maxwell R. Lee – Koogler and Associates, Inc. (Email)

Monica Cardona and William Kissel - Titan America (Email)



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Titan America - Pennsuco Tire Processing Facility FDEP File No. WT13-0134354-001/WACS No. 100946

Closing Cost Estimate September 2017

The purpose of this submittal is to fulfill the requirements of Rule 62-711.500(3) F.A.C., to provide a re-estimate of the annual closing costs for tires at the Titan American Pennsuco tire Processing Facility. Koogler and Associates, Inc. is providing this closing cost estimate for the cost to remove, process, and dispose of the maximum amount of waste tires that is permitted to be stored at the facility at any time.

ESTIMATED CLOSING COSTS:

Waste Tire Disposal

The estimated cost to remove, process, and dispose of the maximum permitted amount of waste tires stored at the facility at any time (30,000 tires/300 tons) is as follows:

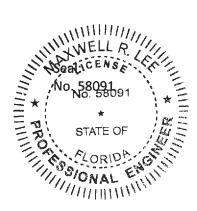
Hauling is \$250.00 per haul @ 13 hauls = \$3,250 Disposal is \$85.00 per ton @ 300 tons = \$25,500 Delivery = $\frac{$200}{$28,950}$

This cost estimate is backed by a third party cost estimate from Republic Services (attached).

Professional Engineer Certification:

Signature

Maxwell R. Lee, Ph.D., P.E. Koogler and Associates, Inc. 4014 NW 13th Street Gainesville, FL 32609 352-377-5822 Date



7/15/17

18500 North Allied Way Phoenix, AZ 85054 0 713-548-3814 f 832-202-2019 republicservices.com prusso-reidler@republicservices.com

September 14, 2017

Monica Cardona Environmental Manager Titan-Pennsuco

Dear Ms. Cardona;

Per your request, Republic Services is pleased to provide the following for waste tire removal and disposal at the kiln in Medley, Florida.

30 yard open top container:

Terms and conditions of our national account master service agreement apply. Please let me know if you need additional information or if you have any questions.

Thank you for choosing Republic Services Sincerely,

Paula Russo-Reidler Senior National Accounts Manager Manufacturing and Environmental Services



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 INF	ORMATION:						
Facility Name:	acility Name: Tarmac America - Pennsuco Tire Processing Facility WACS ID: 100					WACS ID: 10094	6
Permit Application	Permit Application or Consent Order No.: Expiration Date:						
Facility Address:	11000 NW	121 Way					
Permittee or Own	er/Operator:	Titan An	nerica, LLC				
Mailing Address:	11000 NW	121 Way, I	Medley, FL 33	178			
							-
Latitude:	25°	52'	26 "	Longitude:	80°	221	20 "
Coordinate Metho	d: Degrees	/Minutes/S	Sec D	atum: <u>NAD83 (ass</u>	umed)		
Collected by: <u>U</u>	nknown			ompany/Affiliation	N/A		
						-	
Solid Waste Dispo	osal Units Incl	uded in Es	timate:				
			Date Unit	Active Life of		If closed:	If closed:
			Began	Unit From Date	If active:	Date last	Official
Phase /	Call	Aprop	Accepting	of Initial Receipt	Remaining	waste	date of
-	Cell	Acres	Waste	of Waste	life of unit	received	closing
N/A		N/A	N/A	N/A	N/A	N/A	N/A
Total disposal unit	acreage inclu	ided in this	estimate:	Closure: N/A	Lon	g-Term Care:	N/A
Facility ty	rpe: □	Class I	□ C	lass III 🗆	C&D Debris	Disposal	
(Check all tha	at apply) 🛚 🗖	Other: N/	A				
		_					
I. TYPE OF FINA	ANCIAL ASSU	JRANCE D	OCUMENT (C	heck type)			
□ Letter	of Credit*		□ Insuran	ce Certificate	□ Esc	row Account	
□ Perfo	rmance Bond*	•	□ Financia	al Test	□ For	m 29 (FA Defe	rral)
Mara Guara	antee Bond*		☐ Trust Fu	ınd Agreement			·
* - India	ates mechanisms	that require th	ne use of a Standb	y Trust Fund Agreement			
Northwest District 160 Government Center Pensacola, FL 32502-5794 850-595-8360	Northeast 7825 Baymeadows Jacksonville, FL 904-807	Way, Ste. B200 32256-7590	Central District 3319 Maguire Blvd., Ste. Orlando, FL 32803-37 407-894-7555		South Distric 2295 Victoria Ave., \$ 7 Fort Myers, FL 3390 239-332-697	Ste. 364 400 N. Cong 01-3881 West Palm	neast District gress Ave., Ste. 200 Beach, FL 33401 -681-6600

III. ESTIMATE ADJUSTMENT

☐ (a) Inflation Factor 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.

(b) Recalculated or New Cost Estimates

Inflation adjustment using an inflation factor in have occurred in the facility operation which vivide recent Implicit Price Deflator for Gross Nation. The inflation factor is the result of dividing the also be obtained from the Solid Waste website.	vould necessitate modification to al Product published by the U.S. latest published annual Deflator	the closure plan Department of y by the Deflato	n. The inflation Commerce in r for the previ	in factor is derived from the most its survey of Current Business. ous year. The inflation factor may
This adjustment is based on the Departm	ent approved closing cost es	timate dated:		
Closing Cost Estimate:	urrent Year Inflation Factor, e.g. 1.02			Inflation Adjusted Closing Cost Estimate:
×			=	
This adjustment is based on the Departm	ent approved long-term care	cost estimate o	dated:	
	urrent Year Inflation Factor, e <i>.g. 1.02</i>			Inflation Adjusted Annual Long-Term Care Cost Estimate:
x			=	
Number of Years of Long Terr	n Care Remaining:		×	
Inflation Adjusted Long-Teri	m Care Cost Estimate:		=	
Signature by: Owner	/Operator	neer 4014 NW 13	check what a	pplies)
Signature				Address
Mawell R. Lee, Ph.D., P.E.		Gainesville,		
Name & Title			City, S	tate, Zip Code
<u> </u>		mlee@koog		s.com ail Address
352-377-5822				

Telephone Number

IV. ESTIMATED CLOSING COST (check what applies) □ 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 of Units Description **Total Cost** Unit Cost / Unit 1. Proposed Monitoring Wells (Do not include wells already in existence.) Subtotal Proposed Monitoring Wells: 2. Slope and Fill (bedding layer between waste and barrier layer): Excavation CY Placement and Spreading CY CY Compaction Off-Site Material CY CY Delivery Subtotal Slope and Fill: 3. Cover Material (Barrier Layer): Off-Site Clay CY Synthetics - 40 mil SY SY Synthetics - GCL Synthetics - Geonet SY Synthetics - Other (explain) Subtotal Cover Material: 4. Top Soil Cover: Off-Site Material CY CY Delivery Spread CY Subtotal Top Soil Cover: 5. Vegetative Layer SY Sodding AC Hydroseeding Fertilizer AC Mulch AC Other (explain) ___ Subtotal Vegetative Layer: 6. Stormwater Control System: CY Earthwork Grading SY LF **Piping Ditches** LF Berms LF Control Structures EΑ

Other (explain)

Subtotal Stormwater Control System:

7. Passive Gas Control: Wells	Description	Unit	Number of Units	Cost / Unit	Total Cos
Pipe and Fittings					
Monitoring Probes EA	Wells	EA			
Monitoring Probes EA	Pipe and Fittings	LF		*	
NSPS/Title V requirements		EA	-		
Subtotal Passive Gas Control:	-		1	\$0.00	
Active Gas Extraction Control: Traps			s		ntrol:
Traps	3. Active Gas Extraction Control	:	_		
Sumps					
Flare Assembly		EA	-		
Flame Arrestor	•	EA			
Mist Eliminator	•	EA			
Flow Meter	Mist Eliminator	EA			
Collection System	Flow Meter	EA			
Collection System					
Subtotal Active Gas Extraction Control:	Collection System				
Security System: Fencing	•			***************************************	
Security System: Fencing	, , ,		Subtotal A	ctive Gas Extraction Co	ntrol:
Fencing). Security System:	-			
Gate(s) EA	• •	LF			
Sign(s)	-				
O. Engineering: Closure Plan Report	• •				0
Closure Plan Report	-13 ((-)			Subtotal Security Sys	stem:
Closure Plan Report	10. Engineering:				
Certified Engineering Drawings LS 1 \$0.00 NSPS/Title V Air Permit LS 1 \$0.00 Final Survey LS 1 \$0.00 Certification of Closure LS 1 \$0.00 Other (explain) Subtotal Engineering: Cost / Hour Hours Cost / Hour Total Cost / Professional Services Contract Management Quality Assurance P.E. Supervisor On-Site Engineer Office Engineer On-Site Technician Other (explain) Number		LS	1	\$0.00	
Certification of Closure Other (explain) Subtotal Engineering: Subtotal Engineering: Cost / Hour Hours Cost / Hour Total Cost 1. Professional Services Contract Management P.E. Supervisor On-Site Engineer Office Engineer On-Site Technician Other (explain) Number	•	LS			
Certification of Closure Other (explain) Subtotal Engineering: Subtotal Engineering: Cost / Hour Hours Cost / Hour Total Cost 1. Professional Services Contract Management P.E. Supervisor On-Site Engineer Office Engineer On-Site Technician Other (explain) Number		LS	1		
Certification of Closure Other (explain) Subtotal Engineering: Subtotal Engineering: Cost / Hour Hours Cost / Hour Total Cost 1. Professional Services Contract Management P.E. Supervisor On-Site Engineer Office Engineer On-Site Technician Other (explain) Number	Final Survey		1		
Other (explain) Subtotal Engineering: Description Hours Cost / Hour Hours Cost / Hour Total Cost 1. Professional Services Contract Management Quality Assurance P.E. Supervisor	•		1		
Subtotal Engineering: Cost / Hour					
1. Professional Services Contract Management Quality Assurance	·			Subtotal Enginee	ring:
Contract Management Quality Assurance	Description Hours	Cost	/ Hour H	lours Cost / Hou	ır Total Cos
P.E. Supervisor On-Site Engineer Office Engineer On-Site Technician Other (explain) Number		~ ~ # *			
P.E. Supervisor On-Site Engineer Office Engineer On-Site Technician Other (explain) Number	Contrac	t Managemen	<u>t</u>	Quality Assurance	
On-Site Engineer Office Engineer On-Site Technician Other (explain) Number					
Office Engineer On-Site Technician Other (explain) Number					·
On-Site Technician Other (explain) Number					
Other (explain) Number	-		_		
Number					
		_			
			Number		
	Description	Unit	of Units	Cost / Unit	Total Cost

		Subtotal of 1-11 Above: _	
12.	Contingency0 % o	of Subtotal of 1-11 Above	
		Subtotal Contingency:	
		Estimated Closing Cost Subtotal:	
-	Description		Total Cost
13.	Site Specific Costs		
	Mobilization		
	Waste Tire Facility	·	\$28,950.00
	Materials Recovery Facility	_	
	Special Wastes	_	
	Leachate Management System	Modification	
	Other (explain)	_	
		Subtotal Site Specific Costs:	\$28,950.00
		TOTAL ESTIMATED CLOSING COSTS (\$):	\$28,950.00

V. ANNUAL COST FOR	LONG-TERM CARE			
	01.620(1), 62-701.630(3)a. ar			
	ent accepted, enter the remai		•	e years remaining.
• •	ears 20 Years 30	· -		
	estimates must be certified by			
	estimates based on third party			
3. In son	ne cases, a price quote in sup	port of individual item	estimates may be required	
All items must be addres	ssed. Attach a detailed ex	planation for all entri	es left blank.	
	Sampling			
	Frequency	Number of	(Cost / Well) /	
Description	(Events / Year)	Wells	Event	Annual Cost
1 Groundwater Monitori	ing [62-701.510(6), and (8	(/e//		
Monthly	12	//(a/]		
Quarterly	4			-
Semi-Annually	2		·····	
Annually	1			
Allitually	10	——————————————————————————————————————	Groundwater Monitoring	·
2 Surface Water Monito	oring [62-701.510(4), and (Groundwater wormoning	y
Monthly	12	0)(0)]		
Quarterly	4	-		
•	•	-		
Semi-Annually	2			
Annually	1	Cubtotal C	fooo \Aleton Barritorina	
2 Can Manitoring [62 70	4 400/40\1	Subtotal S	urface Water Monitoring]:
3. Gas Monitoring [62-70				
Monthly	12			
Quarterly	4			
Semi-Annually	2			
Annually	1			
			Subtotal Gas Monitoring	j:
	[62-701.510(5), (6)(b) and	62-701.510(8)c]		
Monthly	12			
Quarterly	4			
Semi-Annually	2	O		
Annually	1			
Other (explain)				
		Subto	otal Leachate Monitoring	j:
		Number of		
Description	Unit	Units / Year	Cost / Unit	Annual Cost
	reatment Systems Mainte	enance		
<u>Maintenance</u>				
Collection Pipes	LF			
Sumps, Traps	EA			
Lift Stations	EA			
Cleaning	LS		8	8
Tanks	EA			

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. (continued)		011110711041	COSt / Offic	7 miliaar Goot
Impoundments				
Liner Repair	SY			
Sludge Removal	CY			
Aeration Systems	01		<u> </u>	
Floating Aerators	EA			
Spray Aerators	EA		1	
Disposal				
Off-site (Includes	1000 gallon			
transportation and disposal)	1000 ganon	Subtotal Leache	te Collection / Treatment	
and disposar,		Subtotal Leacha	Systems Maintenance:	
6. Groundwater Monitoring We	ell Maintenance		-,	
Monitoring Wells	LF			
Replacement	EA		-	
Abandonment	EA			
		otal Groundwater Moni	toring Well Maintenance:	-
7. Gas System Maintenance				
Piping, Vents	LF			
Blowers	EA			
Flaring Units	EA			
Meters, Valves	EA			
Compressors	EA			
Flame Arrestors	EA			
Operation	LS	1		
•		Subtotal G	as System Maintenance:	
8. Landscape Maintenance				
Mowing	AC			
Fertilizer	AC			
		Subtotal I	andscape Maintenance:	
9. Erosion Control and Cover	Maintenance		·	
Sodding	SY			
Regrading	AC			
Liner Repair	SY			
Clay	CY	V		
•	Su	btotal Erosion Control	and Cover Maintenance:	(-
10. Storm Water Management				
Conveyance Maintenance	LS	_1_		
•		orm Water Manageme	nt System Maintenance:	·
11. Security System Maintena		Ū		
Fences	LS	_1_		
Gate(s)	EA			
Sign(s)	EA	9 		•
		Subtotal Secur	ity System Maintenance:	

		Number of		
Description	Unit	Units / Year	Cost / Unit	Annual Cost
12. Utilities	LS	1		
			Subtotal Utilities	:
13. Leachate Collection/Trea	ntment Systems O	peration		···
Operation				
P.E. Supervisor	HR			
On-Site Engineer	HR			
Office Engineer	HR			
OnSite Technician	HR			
Materials	LS	1		
	Subtotal Lea	achate Collection/Treatm	nent Systems Operation	:
14. Administrative				
P.E. Supervisor	HR			
On-Site Engineer	HR	2 		
Office Engineer	HR			
OnSite Technician	HR			
Other				
			Subtotal Administrative	:
		s	Subtotal of 1-14 Above	•
		_		
15. Contingency		% of Subtotal of 1-14 Al	bove	
			Subtotal Contingency	•
Description	Unit	Number of	0 444 5	A
Description 15 0 1	Unit	Units / Year	Cost / Unit	Annual Cost
16. Site Specific Costs				
	. —			
	. —			
		Subt	total Site Specific Costs	:
	Al	NNUAL LONG-TERM C	ARE COST (\$ / YEAR)	
		Number of Ye	ears of Long-Term Care:	<u></u>
		TOTAL LONG-1	TERM CARE COST (\$):	

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.

Maxwell R. Lee, Ph.D., P.E.

Name and Title (please type)

Melonida Registic provides all seal)

Signature By Owner/Operator

VII. SIGNATURE BY OWNER/OPERATOR

Mailing Address

4014 NW 13th Street

Mailing Address

Gainesville, FL 32609

City, State, Zip Code

mlee@kooglerassociates.com

E-Mail address (if available)

352-374-5822

Telephone Number

455 Fairway Drive Suite 200

Mailing Address

Deerfield Beach, FI 33441

954-425-4210

City, State, Zip Code

Telephone Number

William Kissel, Sr. Env. Manager

wkissel@titanamerica.com

Name and Title (please type)

E-Mail address (if available)