

**Distribution Center Daily Total Production by Packaging Line**

(Tons)

Date	Daily production in tons									EU 45 & 46 & 20		EU 19		Daily production in Tons				EU 47	
	Line 1	Line 2	Line 3	Line 4	Line 5	Line 6	Line 7	Line 8	Line 9	Total L8a & L8b	Test Limit L8a & L8b	Total L1-7 & L9	Test Limit	Line 10	Line 12	Line 13	Line 14	Total Line 12-14	Test Limit Line 12-14
7/1/2012	269.6	66.1	46.6	0.0	0.0	5.4	0.0	0.0	0.0	0.0	127	387.7	1368	0.0	0.0	0.0	0.0	0.0	150
7/2/2012	155.9	215.6	143.5	14.5	9.9	16.2	23.4	36.1	10.3	36.1	127	589.3	1368	0.0	0.0	0.0	4.3	4.3	150
7/3/2012	298.3	188.2	164.0	11.1	26.4	16.3	28.7	73.1	13.6	73.1	127	746.5	1368	0.0	44.2	0.8	9.3	54.4	150
7/4/2012	319.5	212.0	162.2	6.2	15.2	13.7	0.0	0.0	15.7	0.0	127	744.4	1368	0.0	38.7	0.8	8.1	47.6	150
7/5/2012	320.4	215.2	175.0	18.1	34.6	16.2	32.2	90.1	17.5	90.1	127	829.1	1368	0.0	15.7	1.6	3.7	21.0	150
7/6/2012	341.8	225.5	93.7	11.3	6.3	14.8	28.4	69.6	17.8	69.6	127	739.6	1368	0.0	0.0	1.8	5.5	7.2	150
7/7/2012	317.1	211.7	207.7	0.0	0.0	16.2	0.0	0.0	16.0	0.0	127	768.6	1368	0.0	0.0	0.0	0.0	0.0	150
7/8/2012	113.8	218.7	180.4	7.4	10.3	16.3	0.0	0.0	16.3	0.0	127	563.1	1368	0.0	0.0	0.0	0.0	0.0	150
7/9/2012	296.3	125.7	165.2	18.7	30.4	15.7	32.4	30.3	11.1	30.3	127	695.4	1368	0.0	0.0	0.4	7.8	8.2	150
7/10/2012	249.7	144.5	21.1	18.6	28.3	20.0	44.6	81.5	17.2	81.5	127	544.0	1368	0.0	22.6	2.2	9.8	34.6	150
7/11/2012	324.9	121.6	57.7	17.2	8.0	20.5	37.0	37.8	20.4	37.8	127	607.3	1368	0.0	28.1	0.9	9.3	38.3	150
7/12/2012	359.8	156.9	87.6	18.4	24.8	21.4	47.8	67.5	20.4	67.5	127	737.3	1368	0.0	14.4	0.8	0.0	15.2	150
7/13/2012	346.7	166.3	86.8	15.6	0.7	14.2	52.8	64.9	24.0	64.9	127	707.1	1368	0.0	27.5	1.3	6.7	35.5	150
7/14/2012	181.9	182.4	88.4	0.0	0.0	16.4	23.9	0.0	15.0	0.0	127	508.0	1368	0.0	0.0	0.7	0.0	0.7	150
7/15/2012	199.0	226.4	63.9	0.0	0.0	22.4	36.5	0.0	12.8	0.0	127	560.9	1368	0.0	0.0	0.0	0.0	0.0	150
7/16/2012	349.7	185.8	61.6	12.8	6.5	9.2	17.9	28.1	5.3	28.1	127	648.6	1368	0.0	0.0	0.6	6.6	7.3	150
7/17/2012	330.2	158.8	83.5	16.2	0.0	15.9	16.8	89.2	16.5	89.2	127	637.9	1368	0.0	26.9	1.1	5.3	33.3	150
7/18/2012	291.7	190.1	81.9	17.6	12.4	15.9	18.8	62.3	16.1	62.3	127	644.4	1368	0.0	7.7	0.8	3.8	12.3	150
7/19/2012	181.5	196.0	233.8	16.4	18.6	15.9	12.0	78.5	15.2	78.5	127	689.3	1368	0.0	17.0	0.6	5.8	23.4	150
7/20/2012	155.5	208.5	250.6	9.4	17.0	10.7	18.8	64.1	11.4	64.1	127	681.8	1368	0.0	18.8	0.8	0.0	19.6	150
7/21/2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	127	0.0	1368	0.0	0.0	0.0	0.0	0.0	150
7/22/2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	127	0.0	1368	0.0	0.0	0.0	0.0	0.0	150
7/23/2012	296.8	191.5	215.8	17.8	26.5	14.1	21.1	44.2	16.5	44.2	127	800.1	1368	0.0	0.0	0.0	3.6	3.6	150
7/24/2012	322.6	179.7	98.5	15.9	10.5	16.2	29.6	85.7	23.3	85.7	127	696.2	1368	0.0	0.0	1.0	9.7	10.7	150
7/25/2012	267.3	201.7	162.8	11.1	27.9	14.2	55.7	75.4	24.7	75.4	127	765.3	1368	0.0	33.6	0.8	10.0	44.3	150
7/26/2012	330.3	180.1	137.2	14.1	11.3	15.9	56.1	75.1	26.0	75.1	127	771.0	1368	0.0	28.3	0.7	9.9	38.8	150
7/27/2012	240.6	212.6	181.6	18.4	6.6	20.8	47.3	62.4	22.9	62.4	127	750.7	1368	0.0	24.6	0.8	7.4	32.8	150
7/28/2012	190.6	213.6	167.4	0.0	0.0	23.9	0.0	0.0	24.5	0.0	127	620.0	1368	0.0	0.0	0.8	0.0	0.8	150
7/29/2012	301.2	208.0	172.1	0.0	5.1	24.1	0.0	0.0	21.3	0.0	127	731.9	1368	0.0	0.0	0.0	0.0	0.0	150
7/30/2012	520.7	165.6	47.9	11.8	11.1	24.5	23.2	50.9	24.8	50.9	127	829.4	1368	0.0	0.0	2.3	7.3	9.7	150
7/31/2012	480.5	187.4	81.1	12.3	10.3	13.5	31.5	77.2	23.2	77.2	127	839.7	1368	0.0	26.1	1.8	3.9	31.8	150

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Attachment E-5. 2011 Annual Particulate Matter and PM10 Emissions from Okeelanta Sugar Refinery  
Using the Rotary Drying and Fluidized Bed Drying Systems

Source Emission Point Description	2011 Refined Sugar Throughput (TPY)	PM Uncontrolled Emission Factor	Control Efficiency (%)	Annual Emissions (TPY)	Emission Unit ID Number
Rotary Cooler No. 1 /Wet Rotoclone No. 3	35,090	3.150 % (a)	99.9 (d)	1.105	23
Rotary Cooler No. 2/Wet Rotoclone No. 4.	35,090	0.350 % (a)	99.9 (d)	0.123	24
AAF Skimmer/Wet Rotoclone No.1 (from Rotary Dryer)	0	3.150 % (b)	99.9 (d)	0.000	21
Central Dust Collection Sys. No.2 / Wet Rotoclone No.2 (h) EFG system:	266,766	2.2994 lb/ton (h)	99.9 (d)	0.307	22
Central Dust Collection Sys. B/ Wet Rotoclone No.2 (h) EFG systems	88,148	1.7768 lb/ton (h)	99.9 (d)	0.078	22
Fluidized Bed Dryer/Cooler Baghouse	354,914	1.500 % (f)	99.8 (g)	10.65	25
Central Dust Collection Sys. A / Wet Rotoclone No.6 EFG systems	88,148	1.0452 lb/ton (i)	99.9 (d)	0.046	54
Central Dust Collection Sys. A / Wet Rotoclone No.6 Rotary systems	11,612	1.0452 lb/ton (i)	99.9 (d)	0.006	54
Central Dust Collection Sys. C / Wet Rotoclone No.7 EFG Systems	88,148	1.4633 lb/ton (j)	99.9 (d)	0.064	55
Central Dust Collection Sys. C / Wet Rotoclone No.7 Rotary Systems	11,612	0.1045 lb/ton (i)	99.9 (d)	0.001	55
			Total PM	12.377	
			PM10		
Rotary Cooler No. 1 /Wet Rotoclone No. 3	35,090	0.126 % (e)	99.0 (d)	0.4421	23
Rotary Cooler No. 2/Wet Rotoclone No. 4.	35,090	0.014 % (e)	99.0 (d)	0.0491	24
AAF Skimmer/Wet Rotoclone No.1 (from Rotary Dryer)	0	0.126 % (e)	99.0 (d)	0.0000	21
Central Dust Collection Sys. No.2 / Wet Rotoclone No.2 (h) EFG system:	266,766	0.09798 lb/ton (e)	99.0 (d)	0.1227	22
Central Dust Collection Sys. B/ Wet Rotoclone No.2 (h) EFG systems	88,148	0.07107 lb/ton (e)	99.0 (d)	0.0313	22
Fluidized Bed Dryer/Cooler Baghouse	354,914	0.060 % (e)	99.8 (g)	0.4259	25
Central Dust Collection Sys. A / Wet Rotoclone No.6 EFG systems	88,148	0.04181 lb/ton (e)	99.0 (d)	0.0184	54
Central Dust Collection Sys. A / Wet Rotoclone No.6 Rotary systems	11,612	0.04181 lb/ton (e)	99.0 (d)	0.0024	54
Central Dust Collection Sys. C / Wet Rotoclone No.7 EFG Systems	88,148	0.05853 lb/ton (e)	99.0 (d)	0.0258	55
Central Dust Collection Sys. C / Wet Rotoclone No.7 Rotary Systems	11,612	0.00418 lb/ton (e)	99.0 (d)	0.0002	55
			Total PM10	1.118	

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Footnotes:

- (a) Based on sugar industry data, uncontrolled sugar dust loading (PM and PM10) is a max of 3.5% of the total refined sugar throughput when rotary dryers/coolers are used. Factor assumes that 90% of the uncontrolled sugar dust is vented to Cooler No. 1/ Wet Rotoclone No. 3 and 10% vented to Cooler No. 2/Wet Rotoclone No. 4 (for two stage drying/cooling operation).
- (b) Wet Rotoclone No. 1 did not operate during CY2011
- (c) Guaranteed manufacturers control equipment efficiency for total PM = 99.9% and PM10 = 99.0%.
- (e) Based on sugar dust analysis, uncontrolled PM10 is less than 4% of total sugar dust loading to the control equipment.
- (f) Based on manufacturers maximum estimated PM inlet loading rate of 1.5% of throughput rate for fluidized bed dryer/cooler. Factor assumes that all of the fluidized bed dryer/cooler sugar dust is vented to this control device.
- (g) Baghouse manufacturer's efficiency.
  - Continuous/batch drop equation from AP-42 (USEPA, 1995) Section 13.2.4. Formula used with multiple for drop points,
 
$$E \text{ (lb/ton)} = k \times 0.0032 \times (U/5)^{1.3} / (M/2)^{1.4}$$
; where U is assumed to be a max of 1 mph due to the building enclosure.
 
$$M = \text{Moisture Content} = 0.03\% \text{ for refined sugar. } k = 0.74 \text{ for PM}$$
- (h) Wet Rotoclone No.2 controlled 22 transfer points/operations until 10/6/2011 then controls 17 transfer/operations points thereafter.
  - E = 0.1045 lb/ton per transfer point/operation, or 2.2994 lb/ton for 22 points on EFG systems
  - E = 0.1045 lb/ton per transfer point/operation, or 1.768 lb/ton for 17 points on EFG systems
- (i) Wet Rotoclone 6 controls 10 transfer points/operations on EFG and 10 transfer points/operations on specialty lines and started operation on 10/6/2011
  - E = 0.1045 lb/ton per transfer point/operation, or 1.0452 lb/ton for 10 points on each EFG and Rotary systems
- (j) Wet Rotoclone 7 controls 14 transfer points/operations on EFG and 1 transfer point/operation on specialty lines and started operation on 10/6/2011
  - E = 0.1045 lb/ton per transfer point/operation, or 1.4633 lb/ton for 14 points on EFG systems and 0.1045 for 1 point on specialty systems

Attachment E-2. 2011 Annual Particulate Matter Emissions from Okeelantia Sugar Refinery Bulk and Transfer Load-out Operations.

Source Emission Point Description	2011 Refined Sugar Throughput (TPY)	PM Uncontrolled Emission Factor	Control Efficiency (%)	Annual Emissions (Tons/yr)	Emission Unit ID Number
Particulate Matter (PM)					
Bulk load-out Operations	20,348.00	0.105 lb/ton (b) /	50 (d)	0.53	034
Transfer Bulk Load-out Operations	276,746.23	0.105 lb/ton (b) /	90 (d)	1.45	035
PM10					
Bulk load-out Operations	20,348.00	0.00418 lb/ton (c)	50 (d)	0.021	034
Transfer Bulk Load-out Operations	276,746.23	0.00418 lb/ton (c)	90 (d)	0.058	035

FOOTNOTES

- (b) Bulk load-out operations continuous drop emission factors are computed from AP-42 (USEPA, 1995) Section 13.2.4.  
 $E \text{ (lb/ton)} = k \times 0.0032 \times (U/5)^{1.3} / (M/2)^{1.4}$ ; where U is assumed to be a max of 1 mph due to the building enclosure.  
 M = Moisture Content = 0.03% for refined sugar.  
 k = 0.74 for PM
- (c) PM10, based on sugar dust analysis, is less than 4% of total sugar dust loading.
- (d) Represents assumed control efficiency achieved from the building load-out enclosure. Transfer bulk load-out control efficiency is higher than bulk load-out building due to improved design and operating procedures.

Plnt	Material	From Date	To Date	Opening Stock	Total Receipt Qtyies	Total Issue Quantities	Closing Stock	BUn
OKML	91015186	1/1/2011	12/31/2011	1,100	52,490	-48,550	5,040	LB
OKML	91185046	1/1/2011	12/31/2011	2	0	-1	1	DR

isopropanol emission 24.28 tons  
ethanol emission 0.19 tons  
total 24.46 tons

Refinery Shipments to DC and outside customers.

Rolling 52 week LIMIT	To DC truck, EU-035		To DC rail		To Customers, EU-034	
	Daily	Rolling 52 week 351,000		Rolling 52 week		Rolling 52 week 139,000
8/1/2012	926.43		0		97.51	
8/2/2012	670.13		0		146.02	
8/3/2012	745.72		0		0	
8/4/2012	556.38		0		0	
8/5/2012	376.28	<b>274,132</b>	0	0	0	<b>30,731</b>
8/6/2012	616.76		0		146.23	
8/7/2012	893.63		0		146.03	
8/8/2012	880.68		0		120.78	
8/9/2012	966.7		0		120.44	
8/10/2012	873.31		0		0	
8/11/2012	0		0		0	
8/12/2012	0	<b>272,556</b>	0	0	0	<b>30,924</b>
8/13/2012	766.77		0		120.9	
8/14/2012	863.36		0		120.53	
8/15/2012	833.4		0		24.59	
8/16/2012	975.42		0		0	
8/17/2012	984.02		0		24.72	
8/18/2012	884.61		0		192.89	
8/19/2012	595.14	<b>274,055</b>	0	0	0	<b>31,285</b>
8/20/2012	897.64		0		120.79	
8/21/2012	862.76		0		49.32	
8/22/2012	959.7		0		120.96	
8/23/2012	952.44		0		144.23	
8/24/2012	894.82		0		48.99	
8/25/2012	552.31		0		0	
8/26/2012	588.93	<b>274,398</b>	0	0	0	<b>31,163</b>
8/27/2012	483.97		0		120.48	
8/28/2012	731.47		0		74.09	
8/29/2012	915.56		0		24.49	
8/30/2012	940.21		0		120.24	
8/31/2012	832.96		0		169.6	

# FCR- REFINED SUGAR PRODUCTION

weekly avg Mon-Sun

DAILY PRODUCTION - TONS								Consecutive 52 wk Production Tons		
DATE	DAY #	EU 025 FB DRYER EFG	EU 23 & 24 & 21					EU 025 FB DRYER EFG	EU 023&024 Rot DRYER Specialty <130,000	Combined not to exceed 490,000
			ECJ	ORGANIC	GOLDEN		Total Rotary			
					GRANULATE	DEMERARA				
8/1/2012	214	1,091	0	0	0	0	0.00			
8/2/2012	215	1,122	0	0	0	0	0.00			
8/3/2012	216	1,009	0	0	0	0	0.00			
8/4/2012	217	1,113	0	0	0	0	0.00			
8/5/2012	218	1,126	0	0	0	0	0.00	363,824	44,723	408,547 ✓
8/6/2012	219	1,188	0	0	0	116.16	116.16			
8/7/2012	220	1,126	0	0	0	113.17	113.17			
8/8/2012	221	1,155	0	0	0	121.18	121.18			
8/9/2012	222	1,131	0	0	0	87.14	87.14			
8/10/2012	223	1,131	0	0	0	99.14	99.14			
8/11/2012	224	1,172	0	0	0	126.24	126.24			
8/12/2012	225	1,123	0	0	0	74.11	74.11	364,027	45,460	409,487 ✓
8/13/2012	226	1,139	0	0	0	101.16	101.16			
8/14/2012	227	1,121	0	0	0	94.17	94.17			
8/15/2012	228	1,144	0	0	0	114.17	114.17			
8/16/2012	229	1,159	0	0	0	116.17	116.17			
8/17/2012	230	1,149	0	0	0	113.20	113.20			
8/18/2012	231	1,129	0	0	0	104.15	104.15			
8/19/2012	232	1,104	0	0	0	105.17	105.17	364,037	46,208	410,245 ✓
8/20/2012	233	1,067	0	0	0	79.14	79.14			
8/21/2012	234	1,150	0	0	0	97.13	97.13			
8/22/2012	235	1,139	0	0	0	107.14	107.14			
8/23/2012	236	1,141	0	0	0	118.19	118.19			
8/24/2012	237	1,144	0	0	0	116.19	116.19			
8/25/2012	238	1,129	0	0	0	117.17	117.17			
8/26/2012	239	1,122	0	0	0	59.09	59.09	364,227	46,902	411,129 ✓
8/27/2012	240	1,117	0	0	0	117.18	117.18			
8/28/2012	241	1,086	0	0	0	197.29	197.29			
8/29/2012	242	1,106	0	0	0	44.05	44.05			
8/30/2012	243	1,138	0	0	0	146.20	146.20			
8/31/2012	244	1,133	0	0	0	117.18	117.18			

**Distribution Center Daily Total Production by Packaging Line**

Date	Daily production in tons									EU 45 & 46		EU 19		Daily production in Tons					EU 47		Daily total Tons
	Line 1	Line 2	Line 3	Line 4	Line 5	Line 6	Line 7	Line 8	Line 9	Total L8a & L8b	Test Limit L8a & L8b	Total L1-7 & L9	Test Limit L1-7 & L9	Line 10	Line 12	Line 13	Line 14	Line 14	Total Line 12-14	Test Limit Line 12-14	
6/1/2012	515.0	220.0	159.7	18.7	28.5	16.5	30.4	70.6	15.0	70.6	127	1013.9	1368	0.0	0.0	0.0	8.2	8.2	8.2	150	1092.7
6/2/2012	447.3	196.7	29.1	18.6	0.0	16.0	18.5	0.0	15.5	0.0	127	741.8	1368	116.9	0.0	0.0	9.3	9.3	9.3	150	751.0
6/3/2012	465.0	219.4	70.0	18.5	0.0	15.9	18.7	0.0	16.3	0.0	127	823.9	1368	88.1	0.0	0.0	0.0	0.0	0.0	150	823.9
6/4/2012	188.2	183.9	71.9	18.3	33.7	16.5	18.3	75.2	16.1	75.2	127	546.7	1368	120.4	0.0	0.0	11.5	11.5	11.5	150	633.4
6/5/2012	252.6	17.6	36.5	4.8	21.1	8.9	18.2	38.4	9.0	38.4	127	368.8	1368	360.3	11.7	0.0	10.6	10.6	22.3	150	429.5
6/6/2012	397.8	108.1	48.4	6.2	35.8	0.0	7.9	59.3	12.0	59.3	127	615.2	1368	397.2	11.8	0.0	3.6	3.6	15.4	150	690.9
6/7/2012	200.5	162.0	204.9	10.2	14.5	0.0	30.8	55.0	17.7	55.0	127	640.5	1368	147.2	22.6	0.0	4.7	4.7	27.3	150	722.8
6/8/2012	413.5	158.5	161.9	9.2	0.0	6.6	29.6	75.5	10.1	75.5	127	789.5	1368	197.0	12.5	0.4	9.5	9.5	22.5	150	887.4
6/9/2012	475.7	168.1	172.2	16.6	0.0	16.0	16.4	0.0	27.3	0.0	127	892.4	1368	93.8	0.0	0.7	6.4	6.4	7.0	150	899.4
6/10/2012	406.8	197.2	211.6	0.0	0.0	12.2	18.3	0.0	26.0	0.0	127	872.1	1368	174.7	0.0	0.9	0.0	0.0	0.9	150	873.0
6/11/2012	333.8	174.5	58.8	16.8	11.2	22.5	21.7	51.1	13.3	51.1	127	652.7	1368	87.3	29.8	0.3	0.0	0.0	30.1	150	733.9
6/12/2012	425.0	196.2	109.6	18.5	11.4	23.8	13.2	89.6	15.9	89.6	127	813.5	1368	84.3	36.3	3.7	6.1	6.1	46.1	150	949.3
6/13/2012	218.6	210.0	139.0	12.3	22.9	24.0	10.9	72.5	16.0	72.5	127	653.7	1368	96.2	26.7	4.5	5.9	5.9	37.1	150	763.3
6/14/2012	325.4	156.5	151.6	16.5	21.1	18.8	36.6	73.3	12.2	73.3	127	738.7	1368	95.9	0.0	4.5	0.0	4.5	4.5	150	816.4
6/15/2012	369.7	186.8	164.0	16.9	0.0	16.2	18.3	85.4	17.4	85.4	127	789.2	1368	7.7	0.0	2.4	5.5	5.5	7.9	150	882.6
6/16/2012	191.4	185.4	158.3	0.0	0.0	15.9	0.0	0.0	16.4	0.0	127	567.3	1368	0.0	9.2	2.5	0.0	0.0	11.7	150	579.0
6/17/2012	453.2	193.3	170.9	0.0	0.0	15.5	0.0	0.0	15.3	0.0	127	848.2	1368	0.0	7.8	1.5	0.0	0.0	9.3	150	857.4
6/18/2012	465.4	186.5	85.6	10.2	8.9	16.3	0.0	55.7	16.2	55.7	127	789.2	1368	156.9	15.2	1.7	3.3	3.3	20.2	150	865.1
6/19/2012	189.3	134.0	131.5	10.6	25.4	16.4	0.0	72.1	12.6	72.1	127	519.6	1368	33.9	0.0	1.3	9.8	9.8	11.1	150	602.8
6/20/2012	224.5	87.1	75.5	2.7	22.0	8.4	0.0	22.0	2.6	22.0	127	422.8	1368	253.3	13.5	1.4	9.4	9.4	24.3	150	469.1
6/21/2012	380.0	167.7	190.3	8.5	25.6	16.5	0.0	95.7	25.2	95.7	127	813.8	1368	178.6	37.2	1.5	5.8	5.8	44.5	150	954.0
6/22/2012	269.4	206.0	244.2	12.5	10.9	16.3	11.5	83.0	24.5	83.0	127	795.3	1368	0.0	16.4	1.6	9.5	9.5	27.4	150	905.7
6/23/2012	452.7	216.0	28.0	0.0	0.0	16.4	11.3	0.0	22.5	0.0	127	746.9	1368	0.0	0.0	0.0	0.0	0.0	0.0	150	746.9
6/24/2012	465.1	222.2	86.1	0.0	0.0	14.4	18.5	0.0	24.0	0.0	127	830.3	1368	31.1	0.0	0.0	0.0	0.0	0.0	150	830.3
6/25/2012	39.5	138.5	54.3	3.1	1.5	8.6	29.1	21.5	17.5	21.5	127	292.1	1368	83.8	2.3	0.6	4.9	4.9	7.8	150	321.4
6/26/2012	226.4	98.1	76.4	12.5	2.4	18.7	11.4	84.1	22.7	84.1	127	468.5	1368	78.2	25.1	1.3	6.0	6.0	32.4	150	585.0
6/27/2012	326.2	163.8	80.9	2.3	4.4	20.1	9.8	50.5	22.2	50.5	127	629.7	1368	84.1	16.5	0.3	0.0	0.0	16.8	150	697.0
6/28/2012	265.3	90.8	55.9	7.5	10.5	14.4	5.7	73.0	2.3	73.0	127	452.4	1368	125.7	11.5	1.7	0.0	0.0	13.2	150	538.5
6/29/2012	253.2	120.6	135.6	8.5	12.7	16.5	15.9	66.5	0.0	66.5	127	562.9	1368	102.7	24.3	0.5	6.1	6.1	30.9	150	660.3
6/30/2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	127	0.0	1368	44.2	0.0	0.0	0.0	0.0	0.0	150	0.0

## Attachment E-10. 2011 Particulate Matter Emissions for the Transshipment Facility, Florida Crystals Food Corp.

Emission Unit and Source Description	E.U. ID #	Baghouse Guaranteed Manufacturer's Emission Rate	Baghouse Gas Flow Rate	PM Hourly Emissions (lb/hr)	PM10 Hourly Emissions (lb/hr) (a)	Hours of Operation (hr)	PM Annual Emissions (TPY)	PM10 <sup>a</sup> Annual Emissions (TPY)
Vacuum System Baghouse <sup>b</sup>	18	0.01 (gr/scf)	280 (scfm)	0.024	0.00096	28	0.00034	0.00001
0 - 9 Packaging Lines Baghouse	19	0.01 (gr/acf)	9,869 (acfm)	0.846	0.034	8,296	3.509	0.1422
Grinder Baghouse	20	0.0005 (gr/scf)	2,960 (scfm)	0.013	0.00052	4,520	0.029	0.0012
Silo No. 1 Baghouse <sup>c</sup>	30 (b)	0.02 (gr/scf)	500 (scfm)	0.0857	0.0034	5,061	0.217	0.0087
Silo No. 2 Baghouse <sup>c</sup>	30 (b)	0.02 (gr/scf)	500 (scfm)	0.0857	0.0034	5,061	0.217	0.0087
Silo No. 3 Baghouse <sup>c</sup>	30 (b)	0.02 (gr/scf)	500 (scfm)	0.0857	0.0034	5,061	0.217	0.0087
Railcar Receiver Baghouse #1	31	0.02 (gr/scf)	615 (scfm)	0.105	0.004	0	0.000	0.0000
Railcar Receiver Baghouse #2	32	0.02 (gr/scf)	615 (scfm)	0.105	0.004	0	0.000	0.0000
Line 8A&B, Pwd Dryer/Clr Baghouse	45	0.01 (gr/scf)	8,640 (acfm)	0.741	0.030	4,520	1.675	0.0670
Grinder Baghouse (pwd. Hopper)	46	0.01 (gr/scf)	1,728 (acfm)	0.148	0.0059	4,520	0.334	0.0134
12,13&14 Packing Lines Baghouse	47	0.01 (gr/scf)	5,760 (acfm)	0.494	0.020	3,216	0.794	0.0318
Unassigned	49	0.02 (gr/scf)	2,212 (acfm)	0.379	0.015	0	0.000	0.0000
Total Particulate Emissions							6.99	0.282

## Footnotes:

(a) Based on sugar dust analysis, PM10 is 4% of total PM.

(b) Vacuum clean up system is used approximately 2 days per quarter 8 hours each day

(c) Air construction permit 0990005-019-AC issued 4/11/06 combined silo units 26,27&amp;28 into single emissions unit 030. This administrative change doesn't affect emission calculations.

(d) EU 49 was unassigned and idle for all of 2011