

Gaskin, Nancy

38414

leachate gtr

file

From: Teresa Carver [Teresa.Carver@hardeecounty.net]
Sent: Wednesday, April 16, 2008 9:56 AM
To: Gaskin, Nancy
Subject: Leachwaterbalance04_15_08.xls
Attachments: Leachwaterbalance04_15_08.xls

Here is the quarterly leachate haul reports.

Have a great day!

Teresa Carver
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Animal Services
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Senate Bill 80 - effective July 1, 2006

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**Hardoe County Landfill
Monthly Leachate Water Balance**

Month: Jan-2008

Day	A	B	C	D	E	F	G	H	I	J	K	L
	Phase II Section I Collection (gal)	Phase II Section I Detection (gal)	Total Phase II Section I Leachate (gal)	Leachate Pumped From MH-8 (Phase I Leachate) (gal)	Total Leachate Added to Tanks (gal)	Total Daily Rainfall (inches)	Water Added to Tanks Due to Rainfall (gal)	Total Liquid Added to Tanks Daily (gal)	Previous Days Liquid Remaining in Tanks (gal)	Previous Days Liquid and Total Liquid Added to Tanks Daily (gal)	Liquid Hauled From Tanks Per Day (gal)	End of Day Balance in Tanks (gal)
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79,000.0	79,000.0	0.0	79,000.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79,000.0	79,000.0	0.0	79,000.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79,000.0	79,000.0	0.0	79,000.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79,000.0	79,000.0	12,000.0	67,000.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67,000.0	67,000.0	0.0	67,000.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67,000.0	67,000.0	0.0	67,000.0
7	0.0	0.0	0.0	25,667.0	25,667.0	0.0	0.0	25,667.0	67,000.0	92,667.0	24,000.0	68,667.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68,667.0	68,667.0	12,000.0	56,667.0
9	0.0	0.0	0.0	26,233.0	26,233.0	0.0	0.0	26,233.0	56,667.0	82,900.0	12,000.0	70,900.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70,900.0	70,900.0	0.0	70,900.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70,900.0	70,900.0	0.0	70,900.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70,900.0	70,900.0	0.0	70,900.0
13	0.0	0.0	0.0	0.0	0.0	0.1	49.4	49.4	70,949.4	70,949.4	0.0	70,949.4
14	0.0	0.0	0.0	23,655.0	23,655.0	0.0	0.0	23,655.0	70,949.4	94,604.4	24,000.0	70,604.4
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70,604.4	70,604.4	18,000.0	52,604.4
16	0.0	0.0	0.0	38,542.0	38,542.0	0.0	0.0	38,542.0	52,604.4	91,146.4	18,000.0	73,146.4
17	0.0	0.0	0.0	0.0	0.0	0.5	411.7	411.7	73,146.4	73,558.1	12,000.0	61,558.1
18	0.0	0.0	0.0	0.0	0.0	0.1	49.4	49.4	61,558.1	61,607.6	0.0	61,607.6
19	0.0	0.0	0.0	0.0	0.0	0.8	634.1	634.1	61,607.6	62,241.8	0.0	62,241.8
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62,241.8	62,241.8	0.0	62,241.8
21	0.0	0.0	0.0	0.0	0.0	1.0	823.5	823.5	62,241.8	63,065.1	30,000.0	33,065.1
22	0.0	0.0	0.0	0.0	0.0	0.1	57.6	57.6	33,065.1	33,122.8	6,000.0	27,122.8
23	0.0	0.0	0.0	27,168.0	27,168.0	0.2	140.0	27,308.0	27,122.8	54,430.7	18,000.0	36,430.7
24	0.0	0.0	0.0	83,356.0	83,356.0	0.0	16.5	83,372.5	36,430.7	119,803.2	24,000.0	95,803.2
25	0.0	0.0	0.0	28,766.0	28,766.0	0.0	0.0	28,766.0	95,803.2	124,569.2	24,000.0	100,569.2
26	0.0	0.0	0.0	0.0	0.0	0.2	131.8	131.8	100,569.2	100,701.0	0.0	100,701.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100,701.0	100,701.0	0.0	100,701.0
28	0.0	0.0	0.0	50,384.0	50,384.0	0.0	0.0	50,384.0	100,701.0	151,085.0	24,000.0	127,085.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	127,085.0	127,085.0	18,000.0	109,085.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	109,085.0	109,085.0	0.0	109,085.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	109,085.0	109,085.0	30,000.0	79,085.0
Totals	0.0	0.0	0.0	303,771.0	303,771.0	2.8	2,314.0	306,085.0	109,085.0	306,085.0	79,085.0	79,085.0

Next Month's Beginning Storage = 79,085.0

Check
385,085.0 Total Added + Previous Months s
79,085.0 ((Total Added + Previous Months

Notes:

- 1) Column A is daily total from Phase II Section I collection flow meter.
- 2) Column B is daily total from Phase II Section I detection flow meter.
- 3) Column C is daily total from Phase II Section I collection and detection flow meters (Col A + Col B).
- 4) Column D is daily total from MH-8 pump station flow meter (Phase I leachate).
- 5) Column E is the leachate pumped from MH-8 plus Phase II Section I collection and detection leachate pumped to the tanks (Col C + Col D) or (Col A + Col B + Col D).
- 6) Column F is the total daily amount of rainfall.
- 7) Column G is total daily rainfall times one-inch of depth of tank (Col F * gallon per inch rainfall).
- 8) Column H is total liquid added to tank, leachate plus rainfall, (Col E + Col G) or (Col A + Col B + Col D + Col G).
- 9) Column I is previous days liquid remaining in tank after hauling (Col L).
- 10) Column J previous days liquid remaining in tank after hauling and total liquid added to tanks daily (Col H + Col I).
- 11) Column K is liquid hauled out of tanks per day.
- 12) Column L is the end of day balance in the tanks (Col J - Col K).

Input Values	10,000.0
Automatically Calculated Values	12,823.5

		Average Generation Rates		Leachate Tanks									
Phase I		Days in Month		31									
Intermediate Cover	12.0 ac	Phase I Leachate	303,771.0 gal	Tank No.	Diameter (ft)	Water in tank per inch depth (gal/in)							
Closed	0.0 ac												
Total	12.0 ac			Area	12.0 ac	1	29	411.7					
									816.6 gal/ac/day	9,799.1 gal/day	2	29	411.7
		Phase II Section I		Total									
Collection System		0.0 gal		823.5 gal per inch of rainfall									
Intermediate Cover	0.0 ac	2.0 ac											
Open	2.0 ac	0.0 gal/ac/day		Maximum Total Tank Storage									
Total	2.0 ac	0.0 gal/day		1 79,000 gal									
		Phase II Section I											
Detection System		0.0 gal		2 79,000 gal									
		2.0 ac		Total 158,000 gal									
		0.0 gal/ac/day		Source: PBSJ Response to RAI dated 7/25/97									
		0 gal/day											

Source: PBSJ Response to RAI dated 7/25/97

Hardee County Landfill
Monthly Leachate Water Balance

Month: Feb-2008

	A	B	C	D	E	F	G	H	I	J	K	L
Day	Phase II Section I Collection (gal)	Phase II Section I Detection (gal)	Total Phase II Section I Leachate (gal)	Leachate Pumped From MH-8 (Phase I Leachate) (gal)	Total Leachate Added to Tanks (gal)	Total Daily Rainfall (inches)	Water Added to Tanks Due to Rainfall (gal)	Total Liquid Added to Tanks Daily (gal)	Previous Days Liquid Remaining in Tanks (gal)	Previous Days Liquid and Total Liquid Added to Tanks Daily (gal)	Liquid Hauled From Tanks Per Day (gal)	End of Day Balance in Tanks (gal)
1			0.0	0.0	0.0	0.0	0.0	0.0	79,085.0	79,085.0		79,085.0
2			0.0	0.0	0.0	0.0	0.0	0.0	79,085.0	79,085.0		79,085.0
3			0.0	0.0	0.0	0.0	0.0	0.0	79,085.0	79,085.0		79,085.0
4			0.0	36,518.0	36,518.0	0.0	0.0	36,518.0	79,085.0	115,603.0	24,000.0	91,603.0
5			0.0	0.0	0.0	0.0	0.0	0.0	91,603.0	91,603.0	24,000.0	67,603.0
6			0.0	36,516.0	36,516.0	0.0	0.0	36,516.0	67,603.0	104,119.0	24,000.0	80,119.0
7			0.0	30,665.0	30,665.0	0.1	107.1	30,772.1	80,119.0	110,891.0	24,000.0	86,891.0
8			0.0	24,503.0	24,503.0	0.4	329.4	24,832.4	86,891.0	111,723.4	24,000.0	87,723.4
9			0.0	0.0	0.0	0.1	41.2	41.2	87,723.4	87,764.6		87,764.6
10			0.0	0.0	0.0	0.0	0.0	0.0	87,764.6	87,764.6		87,764.6
11			0.0	34,543.0	34,543.0	0.0	0.0	34,543.0	87,764.6	122,307.6	24,000.0	98,307.6
12			0.0	22,495.0	22,495.0	0.4	312.9	22,807.9	98,307.6	121,115.5	24,000.0	97,115.5
13			0.0	0.0	0.0	0.5	411.7	411.7	97,115.5	97,527.3	24,000.0	73,527.3
14			0.0	24,850.0	24,850.0	0.0	0.0	24,850.0	73,527.3	98,377.3	30,000.0	68,377.3
15			0.0	16,896.0	16,896.0	0.0	0.0	16,896.0	68,377.3	85,273.3	12,000.0	73,273.3
16			0.0	0.0	0.0	0.0	0.0	0.0	73,273.3	73,273.3		73,273.3
17			0.0	0.0	0.0	0.0	0.0	0.0	73,273.3	73,273.3		73,273.3
18			0.0	48,162.0	48,162.0	1.0	790.5	48,952.5	73,273.3	122,225.8	24,000.0	98,225.8
19			0.0	20,490.0	20,490.0	0.5	411.7	20,901.7	98,225.8	119,127.5	24,000.0	95,127.5
20			0.0	0.0	0.0	0.0	0.0	0.0	95,127.5	95,127.5	30,000.0	65,127.5
21			0.0	26,967.0	26,967.0	0.2	164.7	27,131.7	65,127.5	92,259.2	24,000.0	68,259.2
22			0.0	27,680.0	27,680.0	0.3	205.9	27,885.9	68,259.2	96,145.1	24,000.0	72,145.1
23			0.0	0.0	0.0	0.5	378.8	378.8	72,145.1	72,523.9		72,523.9
24			0.0	0.0	0.0	0.0	24.7	24.7	72,523.9	72,548.6		72,548.6
25			0.0	0.0	0.0	0.1	82.3	82.3	72,548.6	72,631.0	12,000.0	60,631.0
26			0.0	49,181.0	49,181.0	0.0	0.0	49,181.0	60,631.0	109,812.0	12,000.0	97,812.0
27			0.0	0.0	0.0	0.0	0.0	0.0	97,812.0	97,812.0	18,000.0	79,812.0
28			0.0	0.0	0.0	0.0	0.0	0.0	79,812.0	79,812.0		79,812.0
29			0.0	0.0	0.0	0.0	0.0	0.0	79,812.0	79,812.0	30,000.0	49,812.0
30			0.0	0.0	0.0		0.0	0.0	49,812.0	49,812.0	6,000.0	43,812.0
31			0.0	0.0	0.0		0.0	0.0	43,812.0	43,812.0		43,812.0
Totals	0.0	0.0		399,466.0		4.0	3,261.0	402,727.0			438,000.0	43,812.0
Next Months Beginning Storage =												43,812.0

Notes:

- 1) Column A is daily total from Phase II Section I collection flow meter.
- 2) Column B is daily total from Phase II Section I detection flow meter.
- 3) Column C is daily total from Phase II Section I collection and detection flow meters (Col A + Col B).
- 4) Column D is daily total from MH-8 pump station flow meter (Phase I leachate).
- 5) Column E is the leachate pumped from MH-8 plus Phase II Section I collection and detection leachate pumped to the tanks (Col C + Col D) or (Col A + Col B + Col D).
- 6) Column F is the total daily amount of rainfall.
- 7) Column G is total daily rainfall times one-inch of depth of tank (Col F * gallon per inch rainfall).
- 8) Column H is total liquid added to tank, leachate plus rainfall, (Col E + Col G) or (Col A + Col B + Col D + Col G).
- 9) Column I is previous days liquid remaining in tank after hauling (Col L).
- 10) Column J previous days liquid remaining in tank after hauling and total liquid added to tanks daily (Col H + Col I).
- 11) Column K is liquid hauled out of tanks per day.
- 12) Column L is the end of day balance in the tanks (Col J - Col K).

Input Values	10,000.0
Automatically	12,823.5
Calculated	
Values	

Hardee County Landfill
Monthly Leachate Water Balance

Month: Mar-2008

	A	B	C	D	E	F	G	H	I	J	K	L
Day	Phase II Section I Collection (gal)	Phase II Section I Detection (gal)	Total Phase II Section I Leachate (gal)	Leachate Pumped From MH-8 (Phase I Leachate) (gal)	Total Leachate Added to Tanks (gal)	Total Daily Rainfall (inches)	Water Added to Tanks Due to Rainfall (gal)	Total Liquid Added to Tanks Daily (gal)	Previous Days Liquid Remaining in Tanks (gal)	Previous Days Liquid and Total Liquid Added to Tanks Daily (gal)	Liquid Hauled From Tanks Per Day (gal)	End of Day Balance in Tanks (gal)
1			0.0	0.0	0.0		0.0	0.0	43,812.0	43,812.0		43,812.0
2			0.0	0.0	0.0		0.0	0.0	43,812.0	43,812.0		43,812.0
3			0.0	0.0	0.0		0.0	0.0	43,812.0	43,812.0		43,812.0
4			0.0	0.0	0.0		0.0	0.0	43,812.0	43,812.0		43,812.0
5			0.0	0.0	0.0	0.2	181.2	181.2	43,812.0	43,993.1		43,993.1
6			0.0	0.0	0.0	0.7	592.9	592.9	43,993.1	44,586.0		44,586.0
7			0.0	0.0	0.0	0.4	288.2	288.2	44,586.0	44,874.2		44,874.2
8			0.0	0.0	0.0		0.0	0.0	44,874.2	44,874.2		44,874.2
9			0.0	0.0	0.0		0.0	0.0	44,874.2	44,874.2		44,874.2
10			0.0	0.0	0.0		0.0	0.0	44,874.2	44,874.2		44,874.2
11			0.0	0.0	0.0	0.4	296.5	296.5	44,874.2	45,170.7		45,170.7
12			0.0	30,000.0	30,000.0		0.0	30,000.0	45,170.7	75,170.7	30,000.0	45,170.7
13			0.0	0.0	0.0		0.0	0.0	45,170.7	45,170.7		45,170.7
14			0.0	0.0	0.0	0.1	65.9	65.9	45,170.7	45,236.6		45,236.6
15			0.0	0.0	0.0		0.0	0.0	45,236.6	45,236.6		45,236.6
16			0.0	0.0	0.0		0.0	0.0	45,236.6	45,236.6		45,236.6
17			0.0	0.0	0.0		0.0	0.0	45,236.6	45,236.6		45,236.6
18			0.0	0.0	0.0		0.0	0.0	45,236.6	45,236.6		45,236.6
19			0.0	0.0	0.0		0.0	0.0	45,236.6	45,236.6		45,236.6
20			0.0	0.0	0.0	0.6	494.1	494.1	45,236.6	45,730.7		45,730.7
21			0.0	0.0	0.0		0.0	0.0	45,730.7	45,730.7		45,730.7
22			0.0	0.0	0.0	0.4	296.5	296.5	45,730.7	46,027.1		46,027.1
23			0.0	0.0	0.0		0.0	0.0	46,027.1	46,027.1		46,027.1
24			0.0	0.0	0.0		0.0	0.0	46,027.1	46,027.1		46,027.1
25			0.0	0.0	0.0		0.0	0.0	46,027.1	46,027.1		46,027.1
26			0.0	33,400.0	33,400.0	0.0	0.0	33,400.0	46,027.1	79,427.1	30,000.0	49,427.1
27			0.0	0.0	0.0		0.0	0.0	49,427.1	49,427.1		49,427.1
28			0.0	0.0	0.0		0.0	0.0	49,427.1	49,427.1		49,427.1
29			0.0	0.0	0.0		0.0	0.0	49,427.1	49,427.1		49,427.1
30			0.0	0.0	0.0		0.0	0.0	49,427.1	49,427.1		49,427.1
31			0.0	0.0	0.0		0.0	0.0	49,427.1	49,427.1		49,427.1
Totals	0.0	0.0		63,400.0		2.7	2,215.2	65,615.2			60,000.0	49,427.1
Next Months Beginning Storage =												49,427.1

Notes:

- 1) Column A is daily total from Phase II Section I collection flow meter.
- 2) Column B is daily total from Phase II Section I detection flow meter.
- 3) Column C is daily total from Phase II Section I collection and detection flow meters (Col A + Col B).
- 4) Column D is daily total from MH-8 pump station flow meter (Phase I leachate).
- 5) Column E is the leachate pumped from MH-8 plus Phase II Section I collection and detection leachate pumped to the tanks (Col C + Col D) or (Col A + Col B + Col D).
- 6) Column F is the total daily amount of rainfall.
- 7) Column G is total daily rainfall times one-inch of depth of tank (Col F * gallon per inch rainfall).
- 8) Column H is total liquid added to tank, leachate plus rainfall, (Col E + Col G) or (Col A + Col B + Col D + Col G).
- 9) Column I is previous days liquid remaining in tank after hauling (Col L).
- 10) Column J previous days liquid remaining in tank after hauling and total liquid added to tanks daily (Col H + Col I).
- 11) Column K is liquid hauled out of tanks per day.
- 12) Column L is the end of day balance in the tanks (Col J - Col K).

Input Values	10,000.0
Automatically	12,823.5
Calculated	
Values	