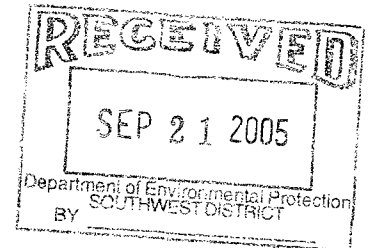


SCS ENGINEERSSeptember 21, 2005
File No. 09199033.11Ms. Susan Pelz, P.E.
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, FL 33619Subject: Estimate of Remaining Capacity and Life of Site
Hardee County Landfill – Permit No. 38414-007-SO
Hardee County, Florida

Dear Ms. Pelz:

SCS Engineers (SCS) is pleased to submit the estimates of remaining capacity and life of site for the Hardee County Landfill. The estimates of remaining capacity and site life are being submitted in fulfillment of Specific Condition No. 9E of Operation Permit No. 38414-007-SO for the landfill. As stated in Specific Condition No. 9E, the topographic survey must be attained for years 2006 and 2009 of the permit life; therefore, the 2003 topographic survey was used to determine the available landfill volume.

WASTE DISPOSAL PROJECTIONS

Hardee County (County) supplied SCS with historic waste disposal information through calendar year 2005. This information is provided in Attachment A and summarized in this section. As shown in the waste quantity report, contained in Attachment A, the amount of waste disposed in the Class I landfill area is the total amount of residential, commercial, and C&D waste material minus the quantity of waste recycled in the MRF.

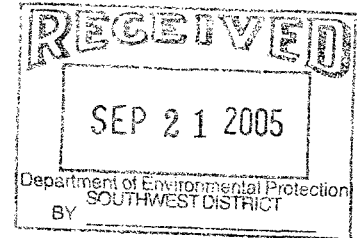
SCS used the projected population estimates for 2002 through 2005, prepared by the Florida Legislative Office of Economic and Demographic Research Office (FLOEDR) for Hardee County to estimate the waste quantity disposal rates per capita. This period was selected since mandatory collection was started in 2002 and is representative of current County collection policies. Using the FLOEDR population projections and the actual tonnages disposed in the Class I landfill, SCS estimated an annual waste disposal tonnage per capita of approximately 0.735 tons per person. This disposal rate was assumed to remain constant for future projections beyond 2005. Adjustments for total waste disposed at the landfill were accounted for by variations in population.

The anticipated rate of population growth for Hardee County (estimated by the FLOEDR office) waste was used to project the disposal quantities for years 2006 and beyond. Table 1 was prepared to show the estimated projected waste disposal rates in the landfill.



**TABLE 1. ANNUAL WASTE DISPOSAL IN CLASS I LANDFILL
 BASED ON POPULATION**

Year	Population ¹	Waste Disposed of in Class I Landfill (tons/yr)
2002 ²	27,152	20,051
2003 ²	27,607	18,813
2004 ³	28,178	21,469
2005 ⁴	28,756	21,641
2006 ⁴	29,270	21,507
2007 ⁴	29,712	21,832
2008 ⁴	30,111	22,125
2009 ⁴	30,484	22,399
2010 ⁴	30,866	22,680



- ¹ Source: Florida Legislative Office of Economic and Demographic Research
- ² Actual Waste Quantity disposed in landfill (loose and baled) provided by Hardee County
- ³ Disposed waste quantities based upon actual and projected rates
- ⁴ Waste disposed based upon project population estimated and average per capita waste rates

ESTIMATED REMAINING DISPOSAL CAPACITY AND SITE LIFE

For estimating the remaining disposal capacity and life of site, the final operating buildout plan for the landfill, specifically Drawing No. 8 of 12 of the operations permit, was compared to the March 2003 topographic map to determine the available airspace. Note the elevations shown are top of intermediate cover. The gross available airspace computed was 190,000 cubic yards (CY). SCS estimated that 10 percent of that airspace would be used for cover material, leaving approximately 171,000 CY of airspace available for waste disposal.

SCS used an estimated in-place density for the waste material of approximately 43 pounds per cubic foot (pcf) or approximately 1100 pounds per cubic yard. This density is consistent with either baled waste or loose waste fill using dozers for compaction. Table 2 represents the available and consumed airspace on a yearly basis. The consumed airspace was estimated by converting the annual waste disposal quantity into pounds per year and dividing by the estimated in-place waste density.

TABLE 2. AVAILABLE AND CONSUMED AIRSPACE

Year	Waste Disposed of in Class I Landfill (tons/yr)	Airspace Consumed (CY)	Available Airspace (CY)
2002	20,051	34,541	171,000
2003	18,813	19,445	151,555
2004	21,469	36,984	114,571
2005	21,641	37,279	77,292
2006	21,507	37,049	40,243
2007	21,832	37,609	2,634
2008	22,125	38,114	-35,480
2009	22,399	38,586	-74,066
2010	22,680	39,070	-113,136

As shown in Table 2, the landfill will use the available airspace by the beginning of 2007. The estimated remaining life is approximately 15 months. Attachment B contains a further breakdown of the site life calculations. This site life estimate remains consistent with previous estimates, even though the multiple hurricanes hit the Hardee County area. This is due to the fact that a large amount of debris and waste have been diverted from the landfill and disposed or recycled in facilities outside of Hardee County.

Please do not hesitate to contact us if you should have any questions regarding this letter.

Very truly yours,

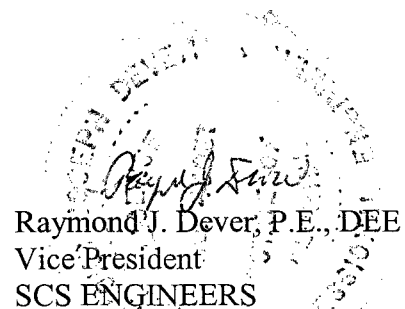


Lindsey E. Kennelly, E.I.
Project Engineer
SCS ENGINEERS

LEK/RJD:lek

Cc Teresa Carver, Hardee County

Attachments



Raymond J. Dever, P.E., DEE
Vice President
SCS ENGINEERS

ATTACHMENT A

**WASTE QUANTITY REPORT
HARDEE COUNTY LANDFILL**

**WASTE QUANTITY REPORT
REPORTED IN TONS
CALENDAR YEAR 2002**

MONTH	RESIDENTIAL	COMMERCIAL	CONSTRUCTION AND DEMOLITION DEBRIS	WOOD AND YARD WASTE	SCRAP METAL	TIRES	TOTAL
Jan-02	739.30	688.17	472.95	100.51		7.32	2008.25
Feb-02	685.10	629.85	316.25	166.50		7.66	1805.36
Mar-02	689.85	621.37	903.55	179.72	55.27	10.20	2459.96
Apr-02	744.58	663.16	454.65	150.87	44.13	9.80	2067.19
May-02	798.65	602.78	281.22	67.67	44.47	11.85	1806.64
Jun-02	816.20	537.28	279.13	124.63	11.64	12.90	1781.78
Jul-02	762.11	511.68	286.83	158.15	46.21	12.96	1777.94
Aug-02	662.28	545.70	259.59	103.65	51.87	7.90	1630.99
Sep-02	669.19	453.88	303.10	79.40	50.53	10.42	1566.52
Oct-02	734.35	537.39	232.32	98.15	39.36	15.97	1657.54
Nov-02	740.83	631.19	189.37	67.10	66.98	10.07	1705.54
Dec-02	869.09	723.66	88.63	67.93	48.58	7.67	1805.56
TOTAL	8911.53	7146.11	4067.59	1364.28	459.04	124.72	22073.27

**DISPOSITION REPORT
REPORTED IN TONS
CALENDAR YEAR 2002**

MONTH	PROCESSED THROUGH MRF	BALED WASTE DISPOSED OF IN CLASS I	LOOSE WASTE DISPOSED OF IN CLASS I	DISPOSED OF IN CLASS I	RECYCLED THROUGH MRF	SCRAP METAL RECYCLED	WOOD AND YARD TRASH PROCESSED	WASTE TIRES REMOVED FOR RECYCLING
Jan-02	1030.08	1021.93	870.34	1892.27	8.15	0.00	0.00	12.31
Feb-02	685.01	671.88	946.19	1618.07	13.13	0.00	757.22	7.52
Mar-02	1058.19	1035.24	1156.58	2191.82	22.95	291.08	0.00	6.10
Apr-02	495.03	483.85	1367.36	1851.21	11.18	0.00	0.00	6.29
May-02	5.08	5.08	1677.57	1682.65	0.00	0.00	0.00	14.85
Jun-02	0.00	-3.14	1632.61	1629.47	3.14	0.00	0.00	10.18
Jul-02	0.00	-1.34	1560.62	1559.28	1.34	0.00	0.00	11.24
Aug-02	0.00	0.00	1467.57	1467.57	0.00	0.00	819.55	2.87
Sep-02	732.11	732.11	694.06	1426.17	0.00	0.00	0.00	17.10
Oct-02	888.13	886.88	615.93	1502.81	1.25	276.74	0.00	7.88
Nov-02	1139.30	1139.30	422.09	1561.39	0.00	0.00	0.00	19.10
Dec-02	1256.11	1243.19	425.27	1668.46	12.92	0.00	0.00	7.31
TOTAL	7289.04	7214.98	12836.19	20051.17	74.06	567.82	1576.77	122.75

**WASTE QUANTITY REPORT
REPORTED IN TONS
CALENDAR YEAR 2003**

MONTH	RESIDENTIAL	COMMERCIAL	CONSTRUCTION AND DEMOLITION DEBRIS	WOOD AND YARD WASTE	SCRAP METAL	TIRES	TOTAL
Jan-03	813.68	683.45	97.07	79.68	41.67	9.26	1724.81
Feb-03	721.92	734.40	94.97	156.13	71.82	9.63	1788.87
Mar-03	789.77	658.52	185.83	272.16	54.78	5.58	1966.64
Apr-03	822.86	653.67	136.73	146.02	64.49	13.04	1836.81
May-03	872.68	691.53	127.13	118.92	63.28	10.07	1883.61
Jun-03	834.90	639.87	111.05	132.28	54.78	8.63	1781.51
Jul-03	740.79	627.75	133.37	111.89	87.57	5.14	1706.51
Aug-03	715.25	627.66	103.31	107.67	39.19	7.43	1600.51
Sep-03	728.01	608.89	155.63	121.94	44.18	4.04	1662.69
Oct-03	714.69	642.24	187.17	116.65	35.06	10.26	1706.07
Nov-03	806.38	639.42	246.85	93.66	44.34	11.19	1841.84
Dec-03	869.64	632.16	133.02	100.16	49.69	12.09	1796.76
TOTAL	9430.57	7839.56	1712.13	1557.16	650.85	106.36	21296.63

**DISPOSITION REPORT
REPORTED IN TONS
CALENDAR YEAR 2003**

MONTH	PROCESSED THROUGH MRF	BALED WASTE DISPOSED OF IN CLASS I	LOOSE WASTE DISPOSED OF IN CLASS I	TOTAL WASTE DISPOSED OF IN CLASS I	RECYCLED THROUGH MRF	SCRAP METAL RECYCLED	WOOD AND YARD TRASH PROCESSED	WASTE TIRES REMOVED FOR RECYCLING
Jan-03	1273.31	1261.04	320.89	1581.93	12.27	0.00	0.00	6.51
Feb-03	1214.31	1214.31	336.98	1551.29	0.00	0.00	0.00	0.00
Mar-03	1356.70	1338.42	277.42	1615.84	18.28	2.74	0.00	6.63
Apr-03	1354.61	1294.05	258.65	1552.70	60.56	331.85	0.00	5.17
May-03	1357.82	1357.82	333.52	1691.34	0.00	3.46	1105.80	6.43
Jun-03	1285.37	1271.80	300.45	1572.25	13.57	0.39	0.00	12.40
Jul-03	1190.81	1173.22	311.10	1484.32	17.59	2.31	0.00	4.37
Aug-03	1163.79	1148.04	282.43	1430.47	15.75	236.72	0.00	6.56
Sep-03	1157.38	1157.38	335.15	1492.53	0.00	0.00	0.00	7.33
Oct-03	1156.40	1154.96	387.70	1542.66	1.44	2.97	0.00	0.82
Nov-03	1253.19	1231.26	439.46	1670.72	21.93	0.72	0.00	5.22
Dec-03	1371.67	1364.07	263.15	1627.22	7.60	1.02	0.00	10.35
TOTAL	15135.36	14966.37	3846.90	18813.27	168.99	582.18	1105.80	71.79

**WASTE QUANTITY REPORT
REPORTED IN TONS
CALENDAR YEAR 2004**

MONTH	RESIDENTIAL	COMMERCIAL	CONSTRUCTION AND DEMOLITION DEBRIS	WOOD AND YARD WASTE	SCRAP METAL	TIRES	TOTAL	TEMP SITE
Jan-04	867.45	671.34	98.24	13.30	36.46	13.41	1700.20	
Feb-04	829.46	673.99	458.22	176.61	63.91	19.24	2221.43	
Mar-04	924.74	783.64	187.24	256.11	64.28	8.48	2224.49	
Apr-04	852.78	731.72	130.05	174.15	65.69	12.78	1967.17	
May-04	788.34	667.73	113.53	176.04	42.41	10.05	1798.10	
Jun-04	894.48	699.34	113.94	116.89	126.85	10.15	1961.65	
Jul-04	796.50	716.85	101.44	160.41	39.05	14.24	1828.49	
Aug-04	1198.82	1229.18	245.23	67.25	81.85	0.84	2823.17	774.64
Sep-04	813.23	681.63	55.43	11.20	216.28	5.78	1783.55	483.89
Oct-04	871.25	723.77	30.92	97.75	158.61	8.87	1891.17	1217.82
Nov-04	910.25	747.18	105.57	97.83	142.82	18.98	2022.63	847.42
Dec-04	912.79	894.98	58.77	77.70	91.91	11.56	2047.71	757.68
TOTAL	10660.09	9221.35	1698.58	1425.24	1130.12	134.38	24269.76	4081.45

**DISPOSITION REPORT
REPORTED IN TONS
CALENDAR YEAR 2004**

MONTH	PROCESSED THROUGH MRF	BALED WASTE DISPOSED OF IN CLASS I	LOOSE WASTE DISPOSED OF IN CLASS I	TOTAL WASTE DISPOSED OF IN CLASS I	RECYCLED THROUGH MRF	SCRAP METAL RECYCLED	WOOD AND YARD TRASH PROCESSED	WASTE TIRES REMOVED FOR RECYCLING
Jan-04	1374.97	1363.32	262.06	1625.38	11.65	0.37	0.00	18.03
Feb-04	1198.88	1176.15	762.79	1938.94	22.73	1.69	0.00	12.77
Mar-04	1116.68	1107.98	778.94	1886.92	8.70	339.89	0.00	7.49
Apr-04	1052.41	1024.72	662.14	1686.86	27.69	0.00	0.00	2.50
May-04	1249.87	1235.20	319.73	1554.93	14.67	0.00	0.00	20.80
Jun-04	1197.21	1193.51	510.55	1704.06	3.70	0.00	0.00	5.51
Jul-04	1187.99	1187.99	426.80	1614.79	0.00	0.00	0.00	10.84
Aug-04	923.81	921.80	1749.42	2671.22	2.01	112.77	1860.76	0.00
Sep-04	1471.80	1468.81	78.49	1547.30	2.99	303.35	0.00	0.00
Oct-04	1332.79	1329.57	293.15	1622.72	3.22	338.95	0.00	0.00
Nov-04	960.96	956.93	802.04	1758.97	4.03	0.00	0.00	19.40
Dec-04	1255.67	1246.21	610.87	1857.08	9.46	121.42	0.00	12.34
TOTAL	14323.04	14212.19	7256.98	21469.17	110.85	1218.44	1860.76	109.68

**WASTE QUANTITY REPORT
REPORTED IN TONS
CALENDAR YEAR 2005**

MONTH	RESIDENTIAL	COMMERCIAL	CONSTRUCTION AND DEMOLITION DEBRIS	WOOD AND YARD WASTE	SCRAP METAL	TIRES	TOTAL	TEMP SITE	ACCUMALATIVE TONNAGE
Jan-05	879.61	1022.36	293.49	154.81	98.47	8.30	2457.04	696.36	3153.40
Feb-05	767.72	846.27	9.17	51.88	69.51	12.02	1756.57	446.99	2203.56
Mar-05	986.48	781.92	37.43	148.20	111.74	32.26	2098.03	610.77	2708.80
Apr-05	918.58	791.89	196.76	167.10	58.45	16.49	2149.27	189.30	2338.57
May-05	1016.66	1027.26	224.00	126.56	32.09	19.60	2446.17	0.00	2446.17
Jun-05	975.74	759.80	151.87	387.73	57.94	20.68	2353.76	0.00	2353.76
Jul-05	870.44	648.53	82.07	205.07	75.12	7.74	1888.97	0.00	1888.97
Aug-05	897.59	985.30	122.32	784.29	77.87	17.45	2884.82	0.00	2884.82
Sep-05							0.00		0.00
Oct-05							0.00		0.00
Nov-05							0.00		0.00
Dec-05							0.00		0.00
TOTAL	7312.82	6863.33	1117.11	2025.64	581.19	134.54	18034.63		18034.63

**DISPOSITION REPORT
REPORTED IN TONS
CALENDAR YEAR 2005**

MONTH	PROCESSED THROUGH MRF	BALED WASTE DISPOSED OF IN CLASS I	LOOSE WASTE DISPOSED OF IN CLASS I	TOTAL WASTE DISPOSED OF IN CLASS I	RECYCLED THROUGH MRF	SCRAP METAL RECYCLED	WOOD AND YARD TRASH PROCESSED	WASTE TIRES REMOVED FOR RECYCLING
Jan-05	1358.67	1353.78	836.79	2190.57	4.89	416.95	0.00	0.00
Feb-05	953.93	937.14	669.23	1606.37	16.79	0.00	0.00	0.00
Mar-05	1428.86	1420.26	376.97	1797.23	8.60	0.50	0.00	92.67
Apr-05	969.08	969.08	938.15	1907.23	0.00	264.40	0.00	0.00
May-05	1462.33	1450.60	805.59	2256.19	11.73	0.00	846.64	0.00
Jun-05	1353.25	1331.15	534.16	1865.31	22.10	172.34	0.00	10.19
Jul-05	1041.68	1016.99	559.36	1576.35	24.69	0.00	0.00	0.00
Aug-05	1237.24	1237.24	767.97	2005.21	0.00	206.51	0.00	9.32
Sep-05		0.00	0.00	0.00				
Oct-05		0.00	0.00	0.00				
Nov-05		0.00	0.00	0.00				
Dec-05		0.00	0.00	0.00				
TOTAL	9805.04	9716.24	5488.22	15204.46	88.80	1060.70	846.64	112.18

ATTACHMENT B
SITE LIFE CALCULATIONS

SCS ENGINEERS

SHEET 1 of 2

CLIENT Hardee County	PROJECT Landfill Expansion	JOB NO. 09199033.11	
SUBJECT Site Life Estimates 2005 Waste Quantity Estimates		BY SVM	DATE 9/20/2005
		CHECKED LEK	DATE 9/21/05

Objective: Determine the estimated waste quantity for October, November, and December of 2005, based on actual data.

	Baled Waste Disposed of in Class I	Loose Waste Disposed of in Class I	Total Waste Disposed of in Class I	Estimated Waste Disposed of in Class I
Jan-05	1,363	262	1,625	1,625
Feb-05	1,176	763	1,939	1,939
Mar-05	1,108	779	1,887	1,887
Apr-05	1,025	662	1,687	1,687
May-05	1,235	320	1,555	1,555
Jun-05	1,194	511	1,704	1,704
July-05	1,188	427	1,615	1,615
Aug-05	922	1,749	2,671	2,671
Sep-05	1,469	78	1,547	1,547
Oct-05			0	1,803
Nov-05			0	1,803
Dec-05			0	1,803

Average (January - September) = 1,803
Annual Total = 21,641

Note: The average reflects the typical waste stream.

Estimated Waste Quantity for 2005 =	21,641
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SCS ENGINEERS

SHEET 2 of 2

CLIENT Hardee County	PROJECT Landfill Expansion	JOB NO. 09199033.11	
SUBJECT Site Life Estimates 2005 Waste Quantity Estimates		BY SVM	DATE 9/20/2005
		CHECKED LEK	DATE 9/21/05

YEAR	POPULATION ¹	WASTE DISPOSED OF IN CLASS I LANDFILL (tons/yr)	ANNUAL WASTE TONNAGE PER CAPITA
1996	24,958	14,281	0.572
1997	25,408	13,896	0.547
1998	26,134	14,699	0.562
1999	26,407	16,061	0.608
2000	26,938	16,165	0.600
2001	26,921	18,844	0.700
2002	27,152	20,051	0.738
2003	27,607	18,813	0.681
2004	28,178	21,469	0.762
2005	28,576	21,641	0.757

Mandatory collection started

TONS PER CAPITA PER YEAR²: 0.735 tons/capita-yr

Gross Airspace Available³ = 190,000 CY
 Estimated Percent Cover = 10%
 Airspace for Cover = 19,000 CY
 Net Airspace available = 171,000 CY
 Waste Density⁴ = 43 lb/CF

YEAR	POPULATION ¹	WASTE DISPOSED OF IN CLASS I LANDFILL (tons/yr) ⁵	AIRSPACE CONSUMED (CY/yr)	AVAILABLE AIRSPACE (CY)
2002	27,152	20,051	34,541	171,000
2003	27,607	18,813	19,445	151,555
2004	28,178	21,469	36,984	114,571
2005 ⁶	28,756	21,641	37,279	77,292
2006	29,270	21,507	37,049	40,243
2007	29,712	21,832	37,609	2,634
2008	30,111	22,125	38,114	-35,480
2009	30,484	22,399	38,586	-74,066
2010	30,866	22,680	39,070	-113,135

Since the topo was flown May 2003, only 7 months of airspace is to be consumed for 2003, therefore the "Airspace Consumed" column for 2003 is multiplied by 0.6, to represent 7 months.

January of 2007 - Phase I Complete

CONCLUSION

The landfill will use the available airspace by January of 2007

¹ Source : Florida Legislative Office of Economic and Demographic Research

² The annual tonnage per capita reflects years 2002 thru 2004, since mandatory collection has been instated.

³ Airspace computed using May 2003 topography versus the permitted final buildout.

⁴ Waste density based upon average bale weight (2150 lb)/(bale size 2.6' x 3.8' x 5.1')

⁵ Waste quantity disposed in landfill (loose and baled) provided by Hardee County.

⁶ Data through July of 2005 totals 9,716 tons of baled waste and 5,488 tons of loose waste. The total waste disposed as of August 2005 is 15,204 tons. The average waste disposed per month computes to 1,803 ton/month. Using the average quantities for October, November, and December yields an annual total of 21,641 tons.

Actual quantities disposed of in the Class I landfill.