CDM Smith
1715 North Westshore Blvd, Suite 875
Tampa, Florida 33607
tel: 813 281-2900
fax: 813 288-8787

Dept. Of Environmental Protection
MAR 30 2012
Southwest District
Dept. of Environmental Protection
MAR 30 2012
Southwest District

March 30, 2012

Mr. John Power
Solid Waste Manager
Pasco County Solid Waste
14230 Hays Road
Spring Hill, FL 34610

Subject: West Pasco Class I Landfill – WACS ID No SWD/51/45799
Power Plant Siting Certification PA87-23
Annual Remaining Disposal Capacity and Site Life Calculations

Dear Mr. Power:

CDM Smith is submitting four (4) copies of the remaining disposal capacity and annual site life estimate for Class I cells SW-2, A-3, and A-4 for the subject landfill.

Please forward one signed and sealed original to the FDEP division listed below. If you have any questions or comments regarding this letter or the data presented herein, please call me at (813) 281-2900.

Sincerely,

Aamod Sonawane

Aamod Sonawane, P.E., BCEE
Senior Project Manager
CDM Smith Inc.

Enclosures

1) Ms. Susan Pelz, P.E.
Solid Waste Section
Florida Department of Environmental Protection
Southwest District Office
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

cc: Rajendra Vaidya, CDM Smith

CDM Smith

Pasco County Utilities

West Pasco Class I Landfill – WACS ID SWD/51/45799

Solid Waste Cell SW-2 and Ash Cells A-3 &A-4 – Power Plant Certification No. PA87-23 Annual Remaining Disposal Capacity and Site Life Calculations

14230 Hays Road
Spring Hill, Pasco County, Florida

March 2012

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR 0 20i2
SOUTHWEST DISTRICT
TAMPA

Prepared for:
Pasco County Utilities
7530 Little Road
New Port Richey, FL 34654

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR 30 2012
SOUTHWEST DISTRICT
TAMPA

Prepared by:
CDM Smith Inc.
Certification of Authorization Number 20
1715 North Westshore Blvd., Suite 875
Tampa, Florida 33607

Rajendra D. Vaidya, Ph.D., P.E.
Florida-Registered
Professional Engineer No. 70770

CDM Smith	Calculation Form (Excel)	Job #	6104-76894.WA3.SITE.LIF	Calc By:	RV
Client:	Pasco County			Date:	3/26/12
Project:	West Pasco Class I Landfill : Cell SW-2			Checked By:	AS
Detail:	Site Life Estimate			Date:	3/30/12

Landfill Capacity/Remaining Life Calculation

1.0 Purpose/Objective

Calculate remaining site life of West Pasco Class I Landfill - Cell SW-2

2.0 Procedure

(a) Calculate the remaining disposal capacity consistent with the permitted buildout, using County provided topographic survey.
(b) Estimate remaining air-space from existing topographic survey.
(c) Estimate remaining site life based on historical disposal rate in the landfill.

3.0 References/Data Sources

(a) Topographical Survey of the landfill (attached).
(b) Permitted buildout of the landfill cell (2002).

4.0 Assumptions and Limitations

(a) MSW landfilled in Cell SW-2 is a bypass waste that is not combusted in the WTE plant. Air space from the top one foot of build out is deducted as a provision for an intermediate cover.

(b) Assume a density of one ton per 1.43 CY i.e. 1400 lbs/CY for landfilled municipal solid waste (MSW).

(c) Assume a daily cover of 6 inches for approximate 5 foot lifts. Daily cover is approximately 0.5 ft/ 5 ft = 10% by volume.

(d) It is anticipated that 12 inches of compacted common fill , or common fill mixed with wood chips to a depth of 12 inches will be used for intermediate cover after reaching the permitted elevations.

5.0 Calculations

(a)Air space remaining for West Pasco Class I Landfill Cell SW-2 (from AutoCAD computations) from the attached survey from February 2012 = 172,420 CY

(b) Divide remaining volume by disposal rate

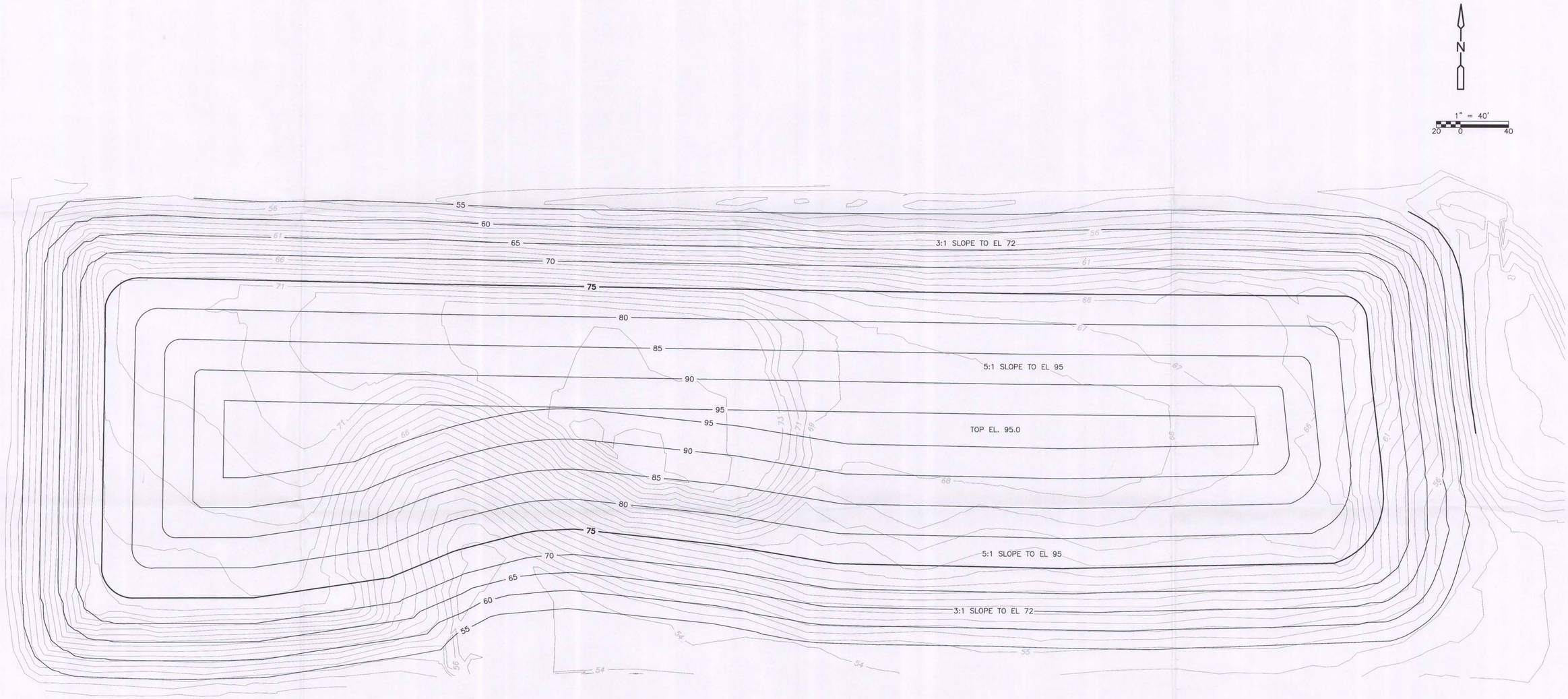
Assume density of MSW at 1 ton per 1.43 C.Y= 1,400 lbs/C.Y

Estimated average disposal rate = 1,713 tons/year (tpy) per Attachment 1. Assume conservatively that for 6 months an year the disposal rate is twice that of this yearly average while for the rest 6 month it is at the average yearly disposal rate. Hence estimated maximum yearly disposal rate =1713 x (6/12) x 2+1713 x (6/12) = 2569.5 say 2570 tpy.

Estimated disposal rate =	2,570	tons/year
Estimated future air space consumption=	3,671	CY/year
Estimated 10% volume for daily cover=	367	CY/year
Total estimated future air space consumption =	4,039	CY/year
Estimated remaining site life =	42.69	years

6.0 Conclusions/Results

The remaining site life of West Pasco Class I Cell SW-2 is approximately 43 years from February 2012.



PLAN

LEGEND

45 —EXISTING CONTOUR

45 **45** —PROPOSED CONTOUR

NOTES:

1. AVAILABLE AIR SPACE IS CALCULATED USING AUTOCAD CIVIL 3D USING THE EXISTING TOPOGRAPHIC SURVEY DATED FEB 21, 2012 AND THE PERMITTED BUILD OUT PROFILE.
2. ESTIMATE IS BASED ON THE APPROXIMATE LOCATION OF TOE OF WASTE FROM THE TOPOGRAPHIC SURVEY.
3. AIR SPACE REMAINING = 172,420 C.Y.
4. PROPOSED CONTOURS SHOWN AT FIVE FOOT INTERVALS FOR CLARITY.

RECEIVED
MAR 30 2012
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST DISTRICT
TAMPA

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: R. VAIDYA
DRAWN BY: B. CHAPMAN
SHEET CHK'D BY: J. HOFFMAN
CROSS CHK'D BY: P. CHENEVEY
APPROVED BY: R. VAIDYA
DATE: MARCH 2012

CDM Smith
1715 North Westshore Blvd., Suite 875
Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-0000020

PASCO COUNTY, FLORIDA
WEST PASCO COUNTY
CLASS I LANDFILL

CELL SW-2
SITE LIFE ESTIMATE

PROJECT NO. 6104-66358
FILE NAME: C002STPL
SHEET NO. C-1

Xrefs: [CDM_2436,] Images: []
Filename: C:\cdmxm\chapmanba\d0199942\C006STPL.dwg Last saved by: CHAPMANBS Time: 1/15/2010 2:16:03 PM

CDM Smith	Calculation Form (Excel)	Job # 6104-76894.WA3.SITE.LIFE	Calc By:	RV
	Client: Pasco County		Date:	3/26/12
	Project: West Pasco Class I Landfill : Cell A-3		Checked By:	AS
	Detail: Site Life Estimate		Date:	3/30/12

Landfill Capacity/Remaining Life Calculation

1.0 Purpose/Objective

Calculate the remaining site life of West Pasco Class I Landfill - Cell A-3 including the Infill area between Cells A-3 and A-2

2.0 Procedure

(a) Calculate the remaining disposal capacity consistent with the permitted buildout, using County provided topographic survey.
(b) Estimate remaining air-space from existing topographic survey.
(c) Estimate remaining site life based on historical disposal rate in the landfill.

3.0 References/Data Sources

(a) Topographical Survey of the landfill (attached)
(b) Permitted buildout of the landfill cell (2002)

4.0 Assumptions and Limitations

(a) Estimated average disposal rate = 82,632 tons/year (tpy) per Attachment 1.
(b) Assume a density of 82 lbs/ft^3 = 2214 lbs/CY for ash.
(c) Daily cover is not required for ash cell.

(d) It is anticipated that a flexible membrane liner ("rain tarp") will be used for intermediate cover on the ash cell after reaching the permitted elevations.

(e) The Infill area between Cells A-3 and A-2 will be filled up to the permitted elevation with a top slope of 2%. Infill air-space between north side slope of Cell A-3 and the south side slope of Cell A-2 up to the limits of available topographic survey is included in this estimate.

5.0 Calculations

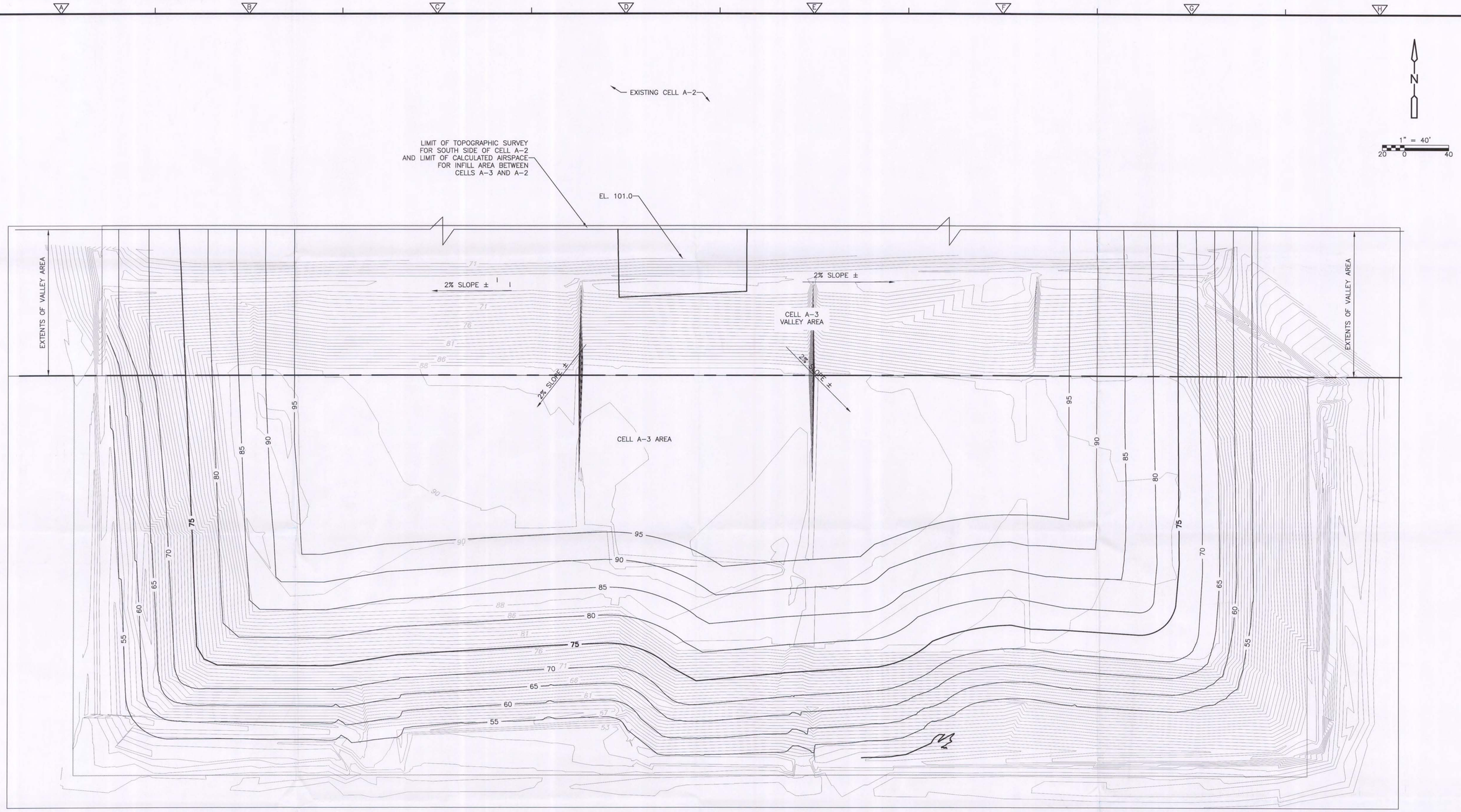
(a) Air space remaining for West Pasco Class I Landfill Cell A-3 and Infill Area between Cells A-3 & A-2 (from AutoCAD computations) from the attached survey from February 2012 = 68,702 CY

(b) Divide remaining volume by disposal rate

Assume density of Ash = 82 lbs/ft^3	2,214	lbs/CY
Estimated yearly disposal rate =	82,632	tons/year
Estimated future air space consumption=	74,645	CY/year
Estimated remaining site life =	0.92	years

6.0 Conclusions/Results

The remaining site life of West Pasco Class I Cell A-3 including the Infill between Cells A-3 and A-2 is approximately one (1) year from February 2012.



LEGEND

45 —— EXISTING CONTOUR

—— 45 —— **45** —— PROPOSED CONTOUR

NOTES:

1. AVAILABLE AIR SPACE IS CALCULATED USING AUTOCAD CIVIL 3D USING THE EXISTING TOPOGRAPHIC SURVEY AND THE PERMITTED BUILD OUT PROFILE.
2. ESTIMATE IS BASED ON THE APPROXIMATE LOCATION OF TOE OF WASTE FROM THE TOPOGRAPHIC SURVEY DATED FEBRUARY 22, 2012. AIR SPACE REMAINING WITHIN CELL A-3, AND THE INFILL AREA BETWEEN NORTH SIDE SLOPE OF CELL A-3 AND THE SOUTH SIDE SLOPE OF CELL A-2 = 68,702 C.Y.
3. PROPOSED CONTOURS SHOWN AT FIVE FOOT INTERVALS FOR CLARITY.

PLAN

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR 20 2012
SOUTHWEST DISTRICT TAMPA

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: R. VAIDYA
DRAWN BY: B. CHAPMAN
SHEET CHK'D BY: J. HOFFMAN
CROSS CHK'D BY: P. CHENEVEY
APPROVED BY: J. LADNER
DATE: MARCH 2012

CDM Smith
1715 North Westshore Blvd., Suite 875
Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-0000020

PASCO COUNTY, FLORIDA
WEST PASCO COUNTY
CLASS I LANDFILL

CELL A-3
SITE LIFE ESTIMATE

PROJECT NO. 6104-66358
FILE NAME: C002STPL
SHEET NO. C-2

Xref's: [CDM_2436CLASS1] Images: []
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CDM Smith	Calculation Form (Excel)	Job # 6104-76894.WA3.SITE.LIFE	Calc By:	RV
Client:	Pasco County		Date:	3/27/12
Project:	West Pasco Class I Landfill : Cell A-4		Checked By:	AS
Detail:	Site Life Estimate		Date:	3/30/12

Landfill Capacity/Remaining Life Calculation

1.0 Purpose/Objective

Calculate the remaining site life of West Pasco Class I Landfill - Cell A-4

2.0 Procedure

(a) Calculate the remaining disposal capacity consistent with the permitted buildout, using County provided topographic survey.
(b) Estimate remaining air-space from existing topographic survey.
(c) Estimate remaining site life based on historical disposal rate in the landfill.

3.0 References/Data Sources

(a) Topographical Survey of the landfill (attached)
(b) Permitted buildout of the landfill cell (2008)

4.0 Assumptions and Limitations

(a) Estimated average disposal rate = 82,632 tons/year (tpy) per Attachment 1.
(b) Assume a density of 82 lbs/ft^3 = 2214 lbs/CY for ash.
(c) Daily cover is not required for ash cell.

(e) It is anticipated that a flexible membrane liner ("rain tarp") will be used for intermediate cover on the ash cell after reaching the permitted elevations.

5.0 Calculations

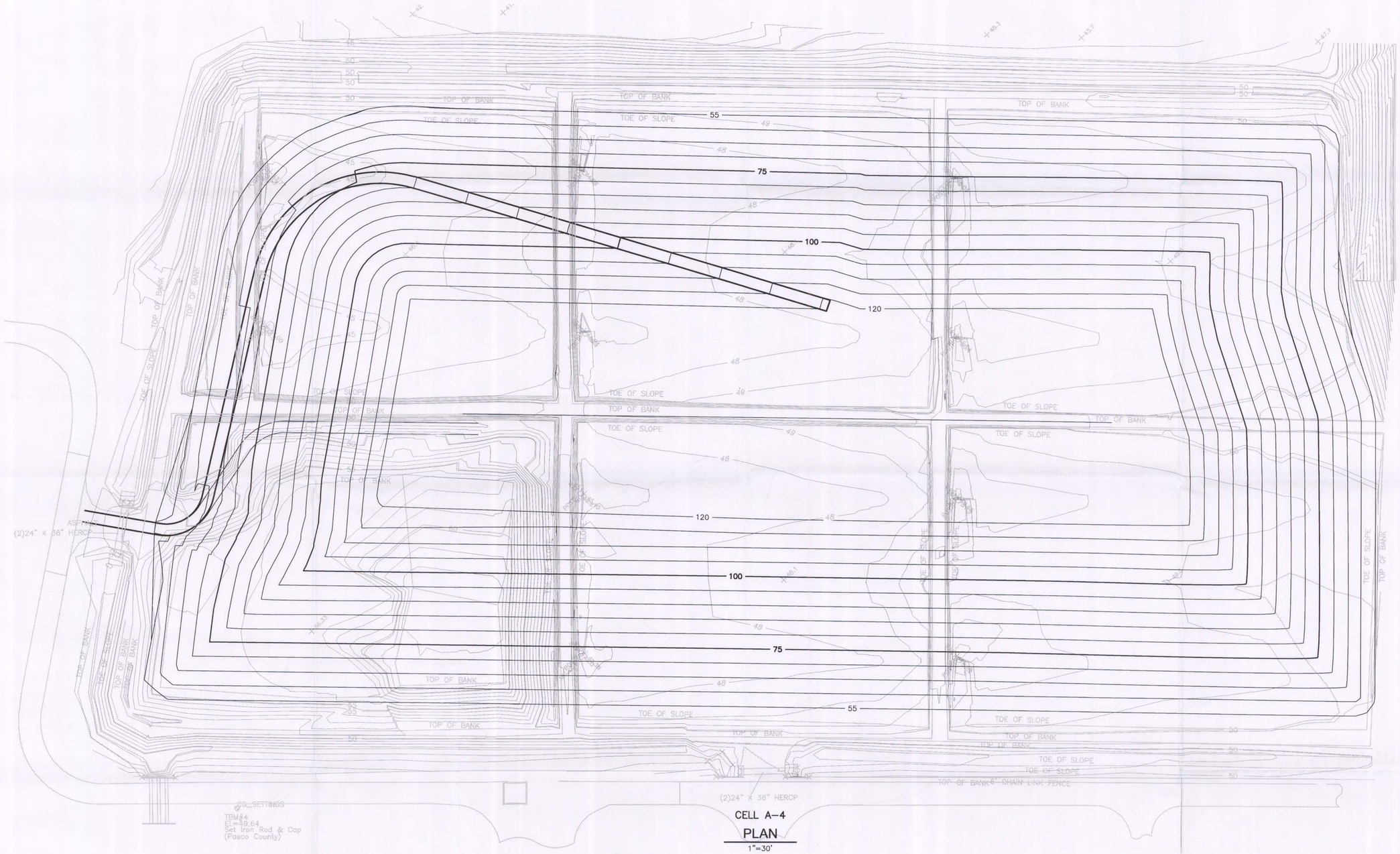
(a)Air space remaining for West Pasco Class I Landfill Cell A-4 (from AutoCAD) from the attached survey from February 2012 = 1,196,670 CY

(b) Divide remaining volume by disposal rate

Assume density of Ash = 82 lbs/ft^3	2,214 lbs/CY
Estimated yearly disposal rate =	82,632 tons/year
Estimated future air space consumption =	74,645 CY/year
Estimated remaining site life =	16.03 years

6.0 Conclusions/Results

The remaining site life of West Pasco Class I Cell A-4 is approximately 16 years from February 2012.



CELL A–4

PLAN

1"=30'

LEGEND

45 –EXISTING CONTOUR

45 **45** –PROPOSED CONTOUR

NOTES:

1. AVAILABLE AIR SPACE IS CALCULATED USING AUTOCAD CIVIL 3D USING THE EXISTING TOPOGRAPHIC SURVEY DATED FEB 28, 2012 AND THE PERMITTED BUILD OUT PROFILE.
2. ESTIMATE IS BASED ON THE APPROXIMATE LOCATION OF TOE OF WASTE FROM THE TOPOGRAPHIC SURVEY.
3. AIR SPACE REMAINING = 1,196,670 C.Y.
4. PROPOSED CONTOURS SHOWN AT 5 FOOT INTERVALS FOR CLARITY.

RECEIVED
MAY 30 2012
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST DISTRICT
TAMPA

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: R. VAIDYA
DRAWN BY: B. CHAPMAN
SHEET CHK'D BY: J. HOFFMAN
CROSS CHK'D BY: P. CHENEVEY
APPROVED BY: R. VAIDYA
DATE: MARCH 2012

CDM Smith
1715 North Westshore Blvd., Suite 875
Tampa, FL 33607
Tel: (813) 281-2900
FL COA No. EB-0000020

PASCO COUNTY, FLORIDA
WEST PASCO COUNTY
CELL A-4 COUNTY LANDFILL

CELL A-4
SITE LIFE ESTIMATE

PROJECT NO. 6104–66358
FILE NAME: C003AS12

SHEET NO.
C-3

Xref's: [CDM_2436,] Images: []
Filename: C:\cdmxm\chapmanbs\d0199942\C006STPL.dwg Last saved by: CHAPMANBS Time: 1/15/2010 2:16:03 PM

Attachment 1

Tonnage Data

(Year 2011)

PASCO COUNTY UTILITIES - SOLID WASTE
TONNAGE SUMMARY FROM COUNTY DATA

Period	West Pasco Class III	West Pasco Class I - ASH	West Pasco Class I-SW
Jan-11	169.60	6,763.71	127.46
Feb-11	429.90	6,542.47	783.52
Mar-11	497.24	6,453.41	137.80
Apr-11	311.51	5,201.95	9.38
May-11	270.42	8,953.86	50.44
Jun-11	392.25	7,263.76	238.53
Jul-11	263.25	6,671.64	85.32
Aug-11	326.24	7,165.84	226.68
Sep-11	212.42	6,748.25	16.87
Oct-11	206.64	4,764.54	95.71
Nov-11	190.87	6,727.09	73.89
Dec-11	282.73	7,200.92	64.16
2011 Total (tons)	3,553.1	80,457.4	1,909.8
* Historical Total (tons)	6,311.3	208,752.8	4,087.3
Total of above two rows**	9,864.4	289,210.3	5,997.1
Average landfilled tonnage **(tons/year)	**2,818.4**	**82,631.5**	**1,713.4**

* Denotes Total landfilled tonnage from period July 2008 through December 2010 which is from recent years. This was reported in Attachment 1 of 'West Pasco Class III Site Life Estimate' dated April 15, 2011 for reporting year 2010 by CDM Smith.

** Denotes tonnage values for period from July 2008 through December 2011

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR 30 2012
SOUTHWEST DISTRICT
TAMPA

FLORIDA DEPARTMENT OF
SOUTHWEST DISTRICT
TAMPA

PASCO COUNTY UTILITIES - SOLID WASTE
TONNAGE SUMMARY - FY 2011
Quarter Ending March 31, 2011

MATERIAL	West Pasco Class III Tonnage JANUARY	FEBRUARY	MARCH		West Pasco Class I Tonnage JANUARY	FEBRUARY	MARCH
1 Household Waste	0.00	0.00	0.00		0.00	0.00	0.00
2 Commercial Waste	0.00	0.00	0.00		0.00	0.00	0.00
3 Ash Residue **	0.00	0.00	0.00		6,763.71	6,542.47	6,453.41
4 Incinerator By-Pass Waste	0.00	0.00	0.00		0.00	0.00	0.00
5 Construction & Demolition Debris	169.60	429.90	497.24		0.00	0.00	0.00
6 Treated Biomedical Waste	0.00	0.00	0.00		0.00	0.00	0.00
7 Agricultural Waste	0.00	0.00	0.00		0.00	0.00	0.00
8 Industrial Waste	0.00	0.00	0.00		0.00	0.00	0.00
9 Yard Trash - IN	117.01	143.73	218.32		0.00	0.00	0.00
10 Sewage Sludge/Dirt	0.00	0.00	0.00		127.46	783.52	137.80
11 Industrial Sludge	0.00	0.00	0.00		0.00	0.00	0.00
12 Water/Air Treatment Sludges	0.00	0.00	0.00		0.00	0.00	0.00
13 Waste Tires - IN	95.45	114.38	72.61		0.00	0.00	0.00
13 Waste Tires - Tires Chipped	0.00	0.00	242.26		0.00	0.00	0.00
Total Tonnage Weighted IN	382.06	688.01	1,030.43		6,891.17	7,325.99	6,591.21
LESS: Yard Trash Stored/to WTE	(117.01)	(143.73)	(218.32)		0.00	0.00	0.00
Yard Trash Mulched	0.00	0.00	0.00	@@	0.00	0.00	0.00
Yard Trash Mulched & Landscape/Cover	0.00	0.00	0.00	@@	0.00	0.00	0.00
Yard Trash Mulched & to WTE	0.00	0.00	0.00		0.00	0.00	0.00
Waste Tires Stored/Removed	(95.45)	(114.38)	(314.87)		0.00	0.00	0.00
Waste Tires Moved to WTE	0.00	0.00	0.00		0.00	0.00	0.00
Tons Moved to WTE	0.00	0.00	0.00		0.00	0.00	0.00
Total Tonnage Landfilled	169.60	429.90	497.24		6,891.17	7,325.99	6,591.21
Total Tonnage Processed by WTE							
Total Tonnage Received @ Transfer Station							
ASH CELL **					6,763.71	6,542.47	6,453.41
SOLID WASTE CELL					127.46	783.52	137.80

@@ = Yard Waste is Mulched and Provided to the residents Free of Charge as "Landscaping Mulch."
** = Ash Residue is the only Material Disposed of in the Ash Landfill.

PASCO COUNTY UTILITIES - SOLID WASTE
TONNAGE SUMMARY - FY 2011
Quarter Ending June 30, 2011

MATERIAL	West Pasco Class III Tonnage APRIL	MAY	JUNE		West Pasco Class I Tonnage APRIL	MAY	JUNE
1 Household Waste	0.00	0.00	0.00		0.00	0.00	0.00
2 Commercial Waste	0.00	0.00	0.00		0.00	0.00	0.00
3 Ash Residue **	0.00	0.00	0.00		5,201.95	8,953.86	7,263.76
4 Incinerator By-Pass Waste	0.00	0.00	0.00		0.00	0.00	0.00
5 Construction & Demolition Debris	311.51	270.42	392.25		0.00	0.00	0.00
6 Treated Biomedical Waste	0.00	0.00	0.00		0.00	0.00	0.00
7 Agricultural Waste	0.00	0.00	0.00		0.00	0.00	0.00
8 Industrial Waste	0.00	0.00	0.00		0.00	0.00	0.00
9 Yard Trash - IN	291.26	192.81	145.40		0.00	0.00	0.00
10 Sewage Sludge/Dirt	0.00	0.00	0.00		9.38	50.44	238.53
11 Industrial Sludge	0.00	0.00	0.00		0.00	0.00	0.00
12 Water/Air Treatment Sludges	0.00	0.00	0.00		0.00	0.00	0.00
13 Waste Tires - IN	85.87	80.90	54.22		0.00	0.00	0.00
13 Waste Tires - Tires Chipped	133.81	143.51	0.00		0.00	0.00	0.00
Total Tonnage Weighted IN	822.45	687.64	591.87		5,211.33	9,004.30	7,502.29
LESS: Yard Trash Stored/to WTE	(291.26)	(192.81)	(145.40)		0.00	0.00	0.00
Yard Trash Mulched	0.00	0.00	0.00	@@	0.00	0.00	0.00
Yard Trash Mulched & Landscape/Cover	0.00	0.00	0.00	@@	0.00	0.00	0.00
Yard Trash Mulched & to WTE	0.00	0.00	0.00		0.00	0.00	0.00
Waste Tires Stored/Removed	(85.87)	(80.90)	(54.22)		0.00	0.00	0.00
Waste Tires Moved to WTE	(133.81)	(143.51)	0.00		0.00	0.00	0.00
Tons Moved to WTE	0.00	0.00	0.00		0.00	0.00	0.00
Total Tonnage Landfilled	311.51	270.42	392.25		5,211.33	9,004.30	7,502.29
Total Tonnage Processed by WTE							
Total Tonnage Received @ Transfer Station							
ASH CELL **					5,201.95	8,953.86	7,263.76
SOLID WASTE CELL					9.38	50.44	238.53

@@ = Yard Waste is Mulched and Provided to the residents Free of Charge as "Landscaping Mulch."
** = Ash Residue is the only Material Disposed of in the Ash Landfill.

PASCO COUNTY UTILITIES - SOLID WASTE
TONNAGE SUMMARY - FY 2011
Quarter Ending September 30, 2011

MATERIAL	West Pasco Class III Tonnage JULY	AUGUST	SEPTEMBER		West Pasco Class I Tonnage JULY	AUGUST	SEPTEMBER
1 Household Waste	0.00	0.00	0.00		0.00	0.00	0.00
2 Commercial Waste	0.00	0.00	0.00		0.00	0.00	0.00
3 Ash Residue **	0.00	0.00	0.00		6,671.64	7,165.84	6,748.25
4 Incinerator By-Pass Waste	0.00	0.00	0.00		0.00	0.00	0.00
5 Construction & Demolition Debris	263.25	326.24	212.42		0.00	0.00	0.00
6 Treated Biomedical Waste	0.00	0.00	0.00		0.00	0.00	0.00
7 Agricultural Waste	0.00	0.00	0.00		0.00	0.00	0.00
8 Industrial Waste	0.00	0.00	0.00		0.00	0.00	0.00
9 Yard Trash - IN	200.16	222.32	136.87		0.00	0.00	0.00
10 Sewage Sludge/Dirt	0.00	0.00	0.00		85.32	226.68	16.87
11 Industrial Sludge	0.00	0.00	0.00		0.00	0.00	0.00
12 Water/Air Treatment Sludges	0.00	0.00	0.00		0.00	0.00	0.00
13 Waste Tires - IN	76.21	59.54	50.37		0.00	0.00	0.00
13 Waste Tires - Tires Chipped	0.00	0.00	0.00		0.00	0.00	0.00
Total Tonnage Weighted IN	539.62	608.10	399.66		6,756.96	7,392.52	6,765.12
LESS: Yard Trash Stored/to WTE	(200.16)	(222.32)	(136.87)		0.00	0.00	0.00
Yard Trash Mulched	566.75	0.00	0.00	@@	0.00	0.00	0.00
Yard Trash Mulched & Landscape/Cover	(566.75)	0.00	0.00	@@	0.00	0.00	0.00
Yard Trash Mulched & to WTE	0.00	0.00	0.00		0.00	0.00	0.00
Waste Tires Stored/Removed	(76.21)	(59.54)	(50.37)		0.00	0.00	0.00
Waste Tires Moved to WTE	0.00	0.00	0.00		0.00	0.00	0.00
Tons Moved to WTE	0.00	0.00	0.00		0.00	0.00	0.00
Total Tonnage Landfilled	263.25	326.24	212.42		6,756.96	7,392.52	6,765.12
Total Tonnage Processed by WTE							
Total Tonnage Received @ Transfer Station							
ASH CELL **					6,671.64	7,165.84	6,748.25
SOLID WASTE CELL					85.32	226.68	16.87

@@ = Yard Waste is Mulched and Provided to the residents Free of Charge as "Landscaping Mulch."
** = Ash Residue is the only Material Disposed of in the Ash Landfill.

PASCO COUNTY UTILITIES - SOLID WASTE

TONNAGE SUMMARY - FY 2011

Quarter EndingDecember 30, 2011

MATERIAL	West Pasco Class III Tonnage OCTOBER	NOVEMBER	DECEMBER		West Pasco Class I Tonnage OCTOBER	NOVEMBER	DECEMBER
1 Household Waste	0.00	0.00	0.00		0.00	0.00	0.00
2 Commercial Waste	0.00	0.00	0.00		0.00	0.00	0.00
3 Ash Residue **	0.00	0.00	0.00		4,764.54	6,727.09	7,200.92
4 Incinerator By-Pass Waste	0.00	0.00	0.00		0.00	0.00	0.00
5 Construction & Demolition Debris	206.64	190.87	282.73		0.00	0.00	0.00
6 Treated Biomedical Waste	0.00	0.00	0.00		0.00	0.00	0.00
7 Agricultural Waste	0.00	0.00	0.00		0.00	0.00	0.00
8 Industrial Waste	0.00	0.00	0.00		0.00	0.00	0.00
9 Yard Trash - IN	224.44	164.89	90.89		0.00	0.00	0.00
10 Sewage Sludge/Dirt	0.00	0.00	0.00		95.71	73.89	64.16
11 Industrial Sludge	0.00	0.00	0.00		0.00	0.00	0.00
12 Water/Air Treatment Sludges	0.00	0.00	0.00		0.00	0.00	0.00
13 Waste Tires - IN	69.20	45.70	48.27		0.00	0.00	0.00
13 Waste Tires - Tires Chipped	0.00	0.00	0.00		0.00	0.00	0.00
Total Tonnage Weighted IN	500.28	401.46	421.89		4,860.25	6,800.98	7,265.08
LESS: Yard Trash Stored/to WTE	(224.44)	(164.89)	(90.89)		0.00	0.00	0.00
Yard Trash Mulched	0.00	0.00	0.00	@@	0.00	0.00	0.00
Yard Trash Mulched & Landscape/Cover	0.00	0.00	0.00	@@	0.00	0.00	0.00
Yard Trash Mulched & to WTE	0.00	0.00	0.00		0.00	0.00	0.00
Waste Tires Stored/Removed	(69.20)	(45.70)	(48.27)		0.00	0.00	0.00
Waste Tires Moved to WTE	0.00	0.00	0.00		0.00	0.00	0.00
Tons Moved to WTE	0.00	0.00	0.00		0.00	0.00	0.00
Total Tonnage Landfilled	206.64	190.87	282.73		4,860.25	6,800.98	7,265.08
Total Tonnage Processed by WTE							
Total Tonnage Received @ Transfer Station							
ASH CELL **					4,764.54	6,727.09	7,200.92
SOLID WASTE CELL					95.71	73.89	64.16

@@ = Yard Waste is Mulched and Provided to the residents Free of Charge as "Landscaping Mulch."

** = Ash Residue is the only Material Disposed of in the Ash Landfill.

Attachment 2

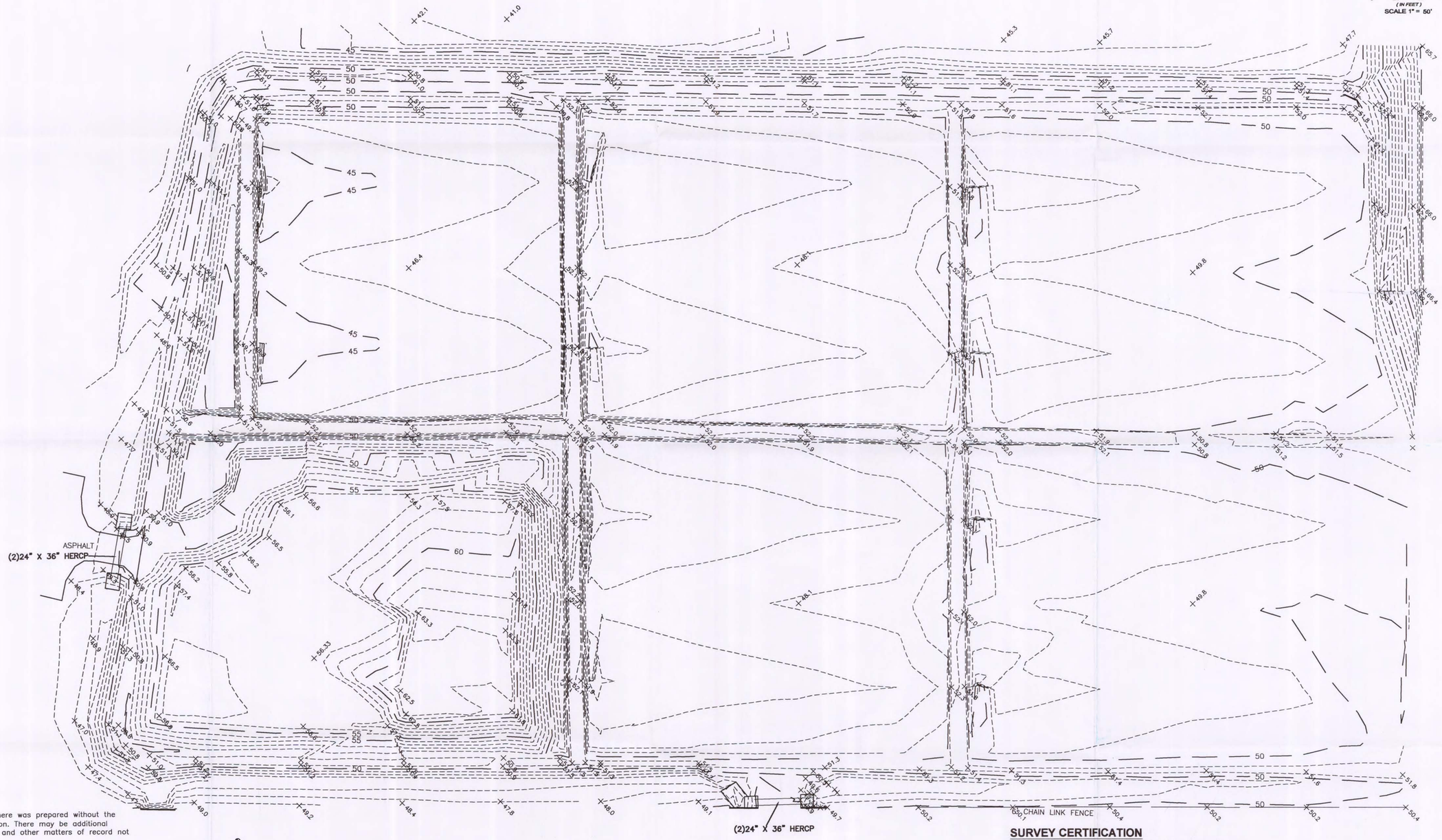
Topographic Survey for Cells SW-2, A-3, and A-4

(February 2012)

SECTION 25, TOWNSHIP 24 SOUTH, RANGE 17 EAST
PASCO COUNTY, FLORIDA

North

GRAPHIC SCALE
0 25 50 75
(IN FEET)
SCALE 1" = 50'



NOTES

1. The Topographic survey depicted here was prepared without the benefit of an attorney's title opinion. There may be additional easements, takings, right of ways and other matters of record not shown on this survey.
2. Interior occupation and improvements, below and above ground, were not located for the purpose of this survey unless otherwise depicted hereon.
3. Additions or deletions to this survey map by anyone other than the signing party is prohibited without written consent of the signing party.
4. Last field date of survey date: February 28, 2012.

TBM#4
EL=49.64
Set Iron Rod & Cap
(Pasco County)

BENCH MARKS

Elevations are based on the North American Vertical Datum of 1988 (NAVD88). National Geodetic Survey (NGS) benchmark C-675, a survey disk set on top of concrete monument, the published elevation 46.77 was used and two Temporary Bench Marks (TBM) are shown on this survey.

TBM#2
EL=48.98
Set Iron Rod & Cap
(Pasco County)

SURVEY CERTIFICATION

This certifies that a survey of the subject property was made under my supervision and meets the Minimum Technical Standards set forth by Board of Professional Surveyors & Mappers in Chapter 5J-17, of the Florida Administrative code, pursuant to Section 472.027, Florida Statutes.

Date of Survey: February 28, 2012

Type of Survey: Topographic Survey

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR 30 2012
SOUTHWEST DISTRICT TAMPA

SYMBOL LEGEND:

⚽ = BENCH MARK

LEGEND:

H.E.R.C.P. = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE

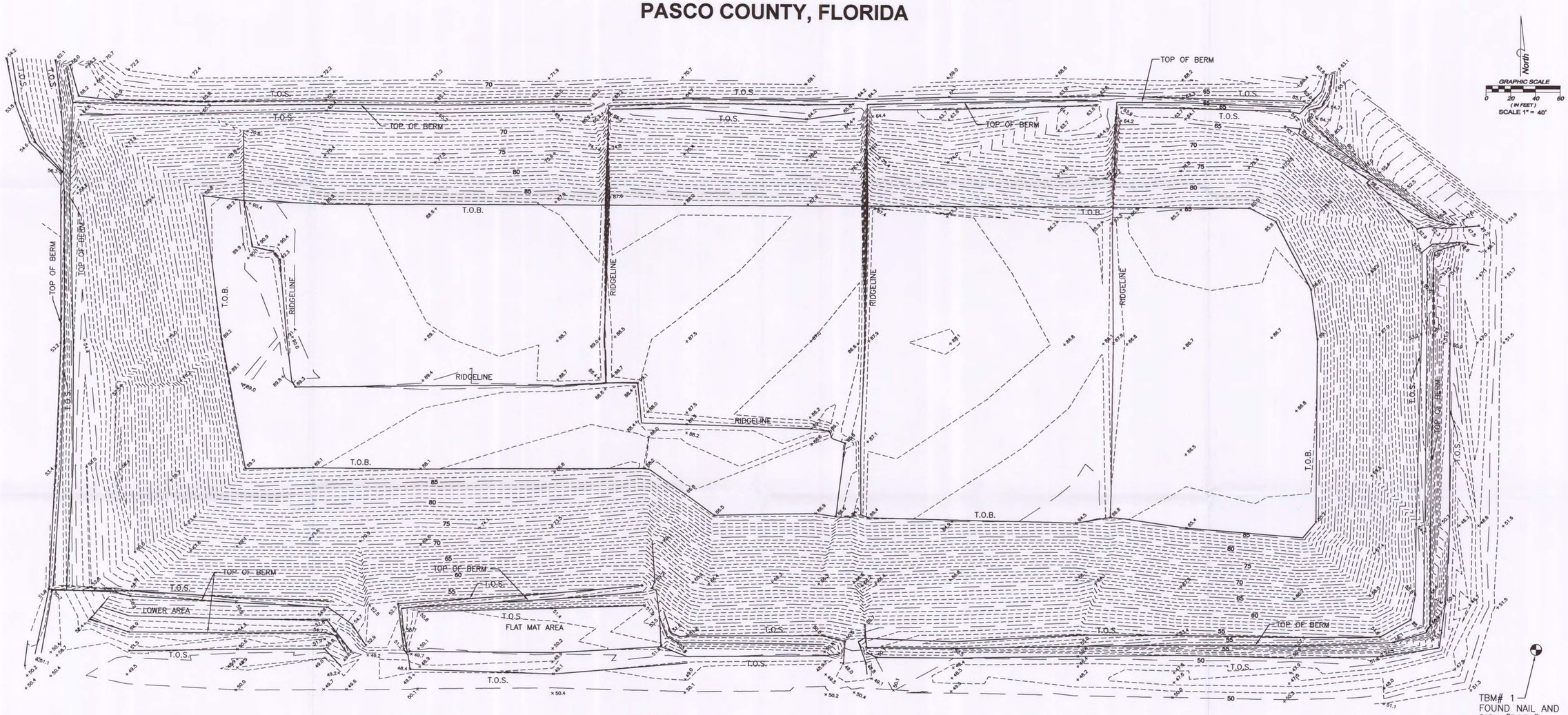
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HARDOOWAR SINGH, FLORIDA LICENSED SURVEYOR AND MAPPER NO. 4575
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF THIS FLORIDA LICENSED SURVEYOR AND MAPPER.

DRAWN BY: KL	PASCO COUNTY ENGINEERING SERVICES DEPARTMENT 8731 CITIZENS DRIVE NEW PORT RICHEY, FLORIDA 34654-5507	COORDINATE FILE: A4.CRD	FIELD BOOK, PAGE(S): 792 28-30, 794 18	SCALE: 1" = 50'	**WEST PASCO LANDFILL A4 TOPOGRAPHIC SURVEY**	SHEET: 01 OF 01
CHECKED BY: RFP		DRAWING FILE: A4.DWG	DATE: February 28, 2012	DATE DRAWN: March 2, 2012		PROJECT NUMBER: X-9333.00

FILE NO. BCCSUR13\C:\DATA\UTILITIES\WEST PASCO LANDFILL

SECTION 25, TOWNSHIP 24 SOUTH, RANGE 17 EAST
PASCO COUNTY, FLORIDA



BENCH MARKS

Elevations are based on the North American Vertical Datum of 1998 (NAVD88). National Geodetic Survey (NGS) benchmark C-675, a survey disk set on top of concrete monument, the published elevation 46.77 was used and two Temporary Bench Marks (TBM) are shown on this survey.

SURVEY CERTIFICATION

This certifies that a survey of the subject property was made under my supervision and meets the Minimum Technical Standards set forth by Board of Professional Surveyors & Mappers in Chapter 5J-17, of the Florida Administrative code, pursuant to Section 472.027, Florida Statutes.

Date of Survey: Febuary 22, 2012

Type of Survey: Topographic Survey

LEGEND

SEC	SECTION
TWP	TOWNSHIP
RNG	RANGE
COR	CORNER
NTS	NOT TO SCALE
FCM	FOUND CONCRETE MONUMENT
FIR	FOUND IRON ROD
PCED	PASCO COUNTY ENGINEERING DEPARTMENT
T.O.B.	TOP OF BANK
T.O.S.	TOE OF SLOPE
(D)	DEED
HERCP	HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE
O	SET 1/2" IRON ROD PASCO COUNTY
LB	LICENSED BUSINESS
TBM	TEMPORARY BENCHMARK
EL	ELEVATION
⊕	BENCHMARK

NOTES

1) THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE SEARCH AND MAY BE SUBJECT TO EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, AND OTHER MATTERS OF RECORD.

2) UNDERGROUND INSTALLATIONS OR IMPROVEMENTS, INCLUDING BUILDING FOUNDATIONS HAVE NOT BEEN LOCATED, EXCEPT AS SHOWN HEREON.

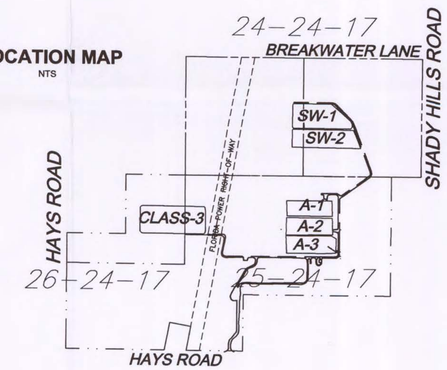
3) THE PROPERTY SHOWN HEREON IS SUBJECT TO THE RULES, REGULATIONS, ORDINANCES AND/OR JURISDICTIONS OF LOCAL, STATE AND/OR FEDERAL AGENCIES: THE REQUIREMENTS OF SAID RULES, REGULATIONS, ORDINANCES AND/OR JURISDICTIONS ARE NOT SHOWN HEREON, UNLESS OTHERWISE STATED.

4) ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM 1988

5) TEMPORARY BENCHMARKS AS SHOWN HEREON

LOCATION MAP

NTS



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR 30 2012
SOUTHWEST DISTRICT TAMPA

FILE NO. BCCSUR11\C:\DATA\X09699PASCOLANDFILL\WPLANDFILLA3.DWG

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DENNIS J. DeHOFF, FLORIDA LICENSED SURVEYOR AND MAPPER NO. 4289
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF THIS FLORIDA LICENSED SURVEYOR AND MAPPER.

DRAWN BY: SK
CHECKED BY: DJDF

PASCO COUNTY
ENGINEERING SERVICES DEPARTMENT
8731 CITIZENS DRIVE
NEW PORT RICHEY, FLORIDA 34654-5507

COORDINATE FILE	FIELD BOOK, PAGE(S)	SCALE
SKA3.CRD	792 26-27	1" = 40'
DRAWING FILE		DATE DRAWN
WPLANDFILLA3.DWG	FEBUARY 21-22, 2012	FEBUARY 27, 2012

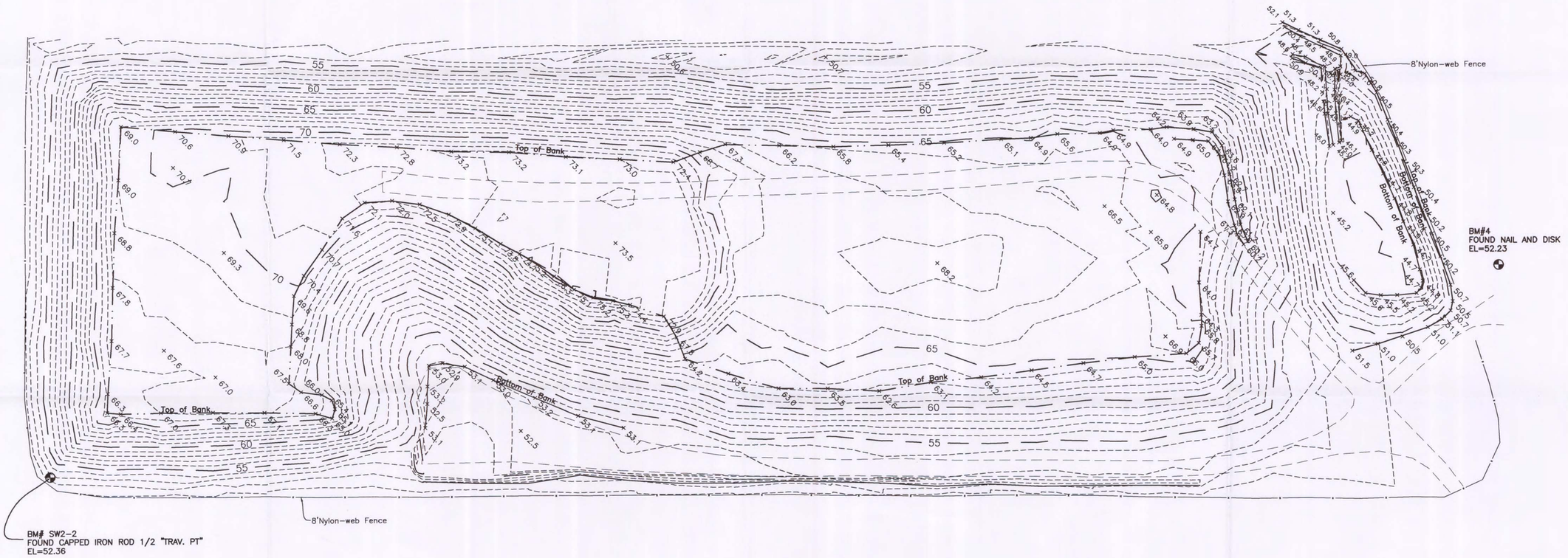
WEST PASCO LANDFILL A-3
TOPOGRAPHIC SURVEY

SHEET 1 OF 1
PROJECT NUMBER X09699.00

SECTION 24, TOWNSHIP 24 SOUTH, RANGE 17 EAST
PASCO COUNTY, FLORIDA

North

GRAPHIC SCALE
0 25 50 75
(IN FEET)
SCALE 1" = 50'



NOTES

1. The Topographic survey depicted here was prepared without the benefit of an attorney's title opinion. There may be additional easements, takings, right of ways and other matters of record not shown on this survey.
2. Interior occupation and improvements, below and above ground, were not located for the purpose of this survey unless otherwise depicted hereon.
3. Additions or deletions to this survey map by anyone other than the signing party is prohibited without written consent of the signing party.
4. Last field date of survey date: February 21, 2012.

SURVEY CERTIFICATION

This certifies that a survey of the subject property was made under my supervision and meets the Minimum Technical Standards set forth by Board of Professional Surveyors & Mappers in Chapter 5J-17, of the Florida Administrative code, pursuant to Section 472.027, Florida Statutes.

Date of Survey: February 21, 2012

Type of Survey: Topographic Survey

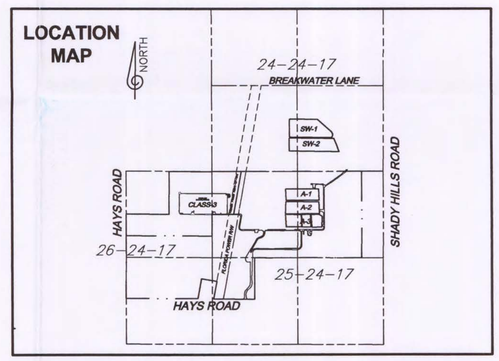
BENCH MARKS

Elevations are based on the North American Vertical Datum of 1988 (NAVD88). National Geodetic Survey (NGS) benchmark C-675, a survey disk set on top of concrete monument, the published elevation 46.77 was used and two Temporary Bench Marks (TBM) are shown on this survey.

LEGEND

SEC	SECTION
TWP	TOWNSHIP
RNG	RANGE
COR	CORNER
NTS	NOT TO SCALE
FCM	FOUND CONCRETE MONUMENT
FIR	FOUND IRON ROD
PCED	PASCO COUNTY ENGINEERING DEPARTMENT
(M)	MEASURED
(C)	CALCULATED
(D)	DEED
⊗	X-CUT IN TOP OF TELEPHONE CAN
MH	MANHOLE
O	SET 1/2" IRON ROD PASCO COUNTY
LB	LICENSED BUSINESS
TBM	TEMPORARY BENCHMARK
EL	ELEVATION
◉	MONITOR WELLS
⊕	BENCHMARK
RCP	REINFORCED CONCRETE PIPE
OR	OFFICIAL RECORDS BOOK

LOCATION MAP



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAR 30 2012
SOUTHWEST DISTRICT TAMPA

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Hardoowar Singh
HARDOOWAR SINGH, FLORIDA LICENSED SURVEYOR AND MAPPER NO. 4575
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF THIS FLORIDA LICENSED SURVEYOR AND MAPPER.

DRAWN BY	MW
CHECKED BY	RFP

PASCO COUNTY
ENGINEERING SERVICES DEPARTMENT
8731 CITIZENS DRIVE
NEW PORT RICHEY, FLORIDA 34654-5507

COORDINATE FILE	FIELD BOOK, PAGE(S)	SCALE	
Class 1 CELL SW2. CRD	794 17	1" = 50'	
DRAWING FILE		DATE DRAWN	
WestPasco Landfill SW2.DWG	February 21, 2012	February 29, 2012	

HAYS ROAD LANDFILL CLASS 1 CELL SW-2
TOPOGRAPHIC SURVEY

SHEET	1 OF 1
PROJECT NUMBER	X-9333.00

FILE NO. BCCSURVX:\DATA\WESTPASCOLANDFILLCLASS1 CELL SW2 \WEST PASCO LANDFILL CLASS 1 SW2.DWG