

SARASOTA COUNTY
"Dedicated to Quality Service"

April 20, 2011

Susan Pelz, P.E.
Solid Waste Section
Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Dept. Of Environmental Protection
APR 21 2011
Southwest District

RE: Central County Solid Waste Disposal Complex
Permit Number 130542-007-SO/01
Annual Topographic Survey and Disposal Capacity Report - 2010
Email Request of April 13, 2011 – Signed/Sealed Copies of Full Size
Topographic Survey

Dear Ms. Pelz:

Per your request, enclosed are the full-size topographic surveys. The surveys have been signed and sealed in Kucera South report of December 2, 2010.

If you have any questions or concerns, please contact me at (941)861-1589 or lerose@scgov.net.

Sincerely,

Lois E. Rose
Manager, Solid Waste

Enc

Lois E. Rose

From: Pelz, Susan [Susan.Pelz@dep.state.fl.us]
Sent: Wednesday, April 13, 2011 8:48 AM
To: Lois E. Rose
Cc: Morris, John R.; Morgan, Steve
Subject: Annual topo & capacity

Lois,

The Department has received the annual topographic survey & capacity analysis. Please provide full-size hard copies of the topographic surveys that are signed and sealed by the professional land surveyor or mapper.

If you have any questions, please call or email (email is better).

Susan J. Pelz, P.E.
Solid Waste Program Manager
Southwest District

13051 N. Telecom Parkway
Temple Terrace, Fl. 33637
813-632-7600 x 386
susan.pelz@dep.state.fl.us

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Herschel T. Vinyard Jr. is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.

KUCERA SOUTH

P H O T O G R A M M E T R I C C O N S U L T A N T S

110 W. Reynolds Street, Suite 202, Plant City, Florida 33563-3379

Tel: (813) 754-9247, Fax: (813) 754-9830

Email: l.towles@kucerasouth.com www.kucerainternational.com

PACKING SLIP

SHIP TO:Sarasota County Solid Waste

4000 Knights Trail Road

Nokomis, Florida 34275

ATTN: Lois Rose

DATE:4-18-2011

KUCERA JOB NO.: 59763

RE: Sarasota Co.,FL Landfill / Nokomis,FL

Dept. Of Environmental Protection

APR 21 2011

Southwest District

| QUANTITY | SCALE | DESCRIPTION |
|-----------|---------|---------------|
| 1 Set (4) | 1"=100' | Mapping Plots |
| 1 | | Survey Report |

DATE OF AERIAL PHOTOGRAPHY:12-2-2010

PURCHASE ORDER NO. :

SHIPPED VIA: Mail

BY: Larry E. Towles PSM,CP

PLEASE REFER TO KUCERA JOB NUMBER ON ALL CORRESPONDENCE

Known Shortage or Damage

Check carefully the number of pieces and the condition of the shipment with the carrier's delivery receipt and if a problem/error is evident, contact us immediately.

Concealed Shortage or Damage

If loss or damage is not evident at time of delivery, it should be reported to shipper and carrier immediately on discovery so that inspection or notification can be made. Carrier regulations require that such claims be made within 15 days of delivery. Shipping carton and packing materials should be saved for inspection.

KUCERA INTERNATIONAL INC.

PHOTOGRAMMETRISTS • GEOMATIC PROFESSIONALS • ENGINEERS

FILE COPY

KUCERA SOUTH

A wholly owned subsidiary of Kucera International, Inc.

Certificate of Authorization Number 6643

110W. Reynolds Street, Suite 202

Plant City, Florida 33563

Corporate Headquarters

38133 Western Parkway

Willoughby, OH 44094-7589

(440) 975-4230

Fax (440) 975-4238

map@kucerainternational.com

REPORT OF TOPOGRAPHIC MAP SURVEY OF LANDS IN

Sections 2 & 3 -Township 38 South-Range 19 East

In Sarasota County, Florida

know as

Sarasota Landfill

for

Veolia Enviromental

Nokomis, Florida

Henderson Aerial Surveys

3889 Grove City Road

Grove City, OH 43123-9193

(614) 539-3925

Fax (614) 539-3928

map@hendersonaerial.com

Keddal Aerial Mapping

1121 Boyce Road, Suite 3100

Pittsburgh, PA 15241-3955

(724) 942-2881

Fax (724) 942-2885

map@keddalaerial.com

Our Project No. 59763-Date of Photography December 2, 2010

Ground Surveys and Custodianship

Ground survey control for mapping was provided by Veolia Enviromental. Datum based on SPCS F1 West Zone NAD 83 Adj. and NGVD 1929.

Kucera South

110 W. Reynolds Street

Suite 202

Plant City, FL 33563-3379

(813) 754-9247

Fax (813) 754-9830

l.towles@kucerasouth.com

This topographic map and report is not valid without the signature and original seal of a Florida licensed surveyor and mapper which can be found at the end of this report. The map and report are not full and complete without the other.

Kucera Southeast

41 Andover Place

Bluffton, SC 29909

(843) 705-2592

Cell (843) 540-2157

r.mangus@kucerainternational.com

ACCURACY

Horizontal and vertical ground surveys meet minimum relative accuracy for photogrammetric topographic mapping at 1" = 100' with 1' contours.

Photogrammetric topographic mapping meets accuracy standards as classified in the Florida Minimum Technical Standards—Chapter 5J-17 FAC.

Kucera West

18921G East Valley View Parkway

PMB 296

Independence, MO 64055

(816) 516-0493

(866) 336-2908

t.connelly@kucerainternational.com

LIMITATIONS

No ground surveys were obtained to check photogrammetric horizontal and vertical accuracy's. . This map for viewing at a scale of 1"=100' or smaller.

Planimetric features and vertical data that is obscured from the stereo operators view due to heavy brush, long grass, tree cover or other physical features are to be considered horizontally and vertically indefinite and further ground surveys must be taken to bring these features to an accuracy that meets Minimum Technical Standards. Buildings are shown roof line only.

YOUR WINDOW TO THE WORLD



Continued

Sarasota Co. Landfill
Topographic Mapping
12-2-2010
Nokomis, FL

Prepared for:

Client: Veolia Enviromental
Address: 4000 Knights Trail Road
City : Nokomis, Florida 34275

Survey and Mapper in Responsible Charge:

Larry E. Towles

KUCERS SOUTH

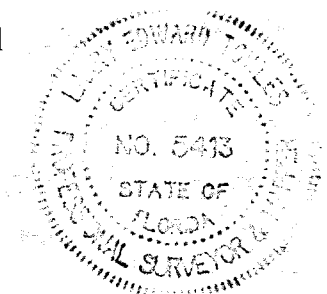
Professional Surveyor and Mapper

License Number LS5413

Larry E. Towles

Date Signed: 12-2-2010

Seal





SARASOTA COUNTY

"Dedicated to Quality Service"

April 11, 2011

Susan Pelz, P.E.
Solid Waste Section
Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

RE: Central County Solid Waste Disposal Complex
Permit Number 130542-007-SO/01
Annual Topographic Survey and Disposal Capacity Report - 2010

Dear Ms. Pelz:

Enclosed are the annual Topographic Survey and Disposal Capacity Report as specified in Specific Condition Part C.13.c.

If you have any questions or concerns, please contact me at (941)861-1589 or lerose@scgov.net.

Sincerely,

Lois E. Rose
Manager, Solid Waste

Enclosure

Dept. Of Environmental Protection

APR 17 2011

Southwest District

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

APR 12 2011

SOUTHWEST DISTRICT
TAMPA

Inserted into OCULUS

APR 13 2011

Initials: LS

**Sarasota County
Central County Solid Waste
Disposal Complex (CCSWDC)
Phases I & II**

DEP Permit No. 130542-007-SO/01

Remaining Capacity Report

Date: April 5, 2011

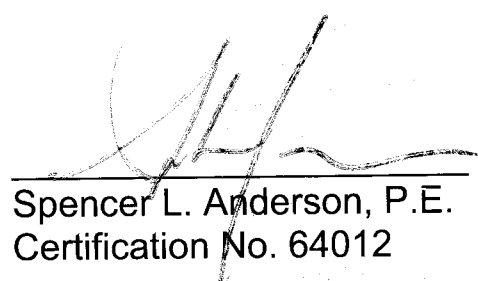


**Sarasota County Solid Waste
4000 Knights Trail Road
Nokomis, FL 34241**

**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

APR 12 2011

**SOUTHWEST DISTRICT
TAMPA**


**Spencer L. Anderson, P.E.
Certification No. 64012**

Sarasota County

Central County Solid Waste Disposal Complex, Phases I & II

DEP Permit No. 130542-007-SO/01

Remaining Capacity Report, April 2011

FINAL REPORT

1.0 Permit Compliance

The following information is provided to fulfill Specific Condition C.13.c of DEP permit No. 130542-007-SO/01 for Phases I and II of Sarasota County's Central County Solid Waste Disposal Complex, Florida.

2.0 Objective

To calculate remaining air space in the Phase I and Phase II landfill cells at Sarasota County's Central County Solid Waste Disposal Complex, Florida.

3.0 Knowns

- 3.1 December 2, 2010 topographic survey, prepared by Kucera International, Inc., and provided to the County by Veolia Environmental, Inc. (see Attachment C)
- 3.2 Waste tonnages placed in the Phase I and Phase II landfill cells during calendar year 2010 (see Table 1)

4.0 Assumptions

- 4.1 Waste compaction density is based on the landfill operator's, Veolia Environmental, Inc, contractual density requirement of 1,428 lb/cy
- 4.2 Waste placed in the Phase I cell is based on the 2010 average monthly waste tonnages.

5.0 Conclusions

- 5.1 Phase I (see supporting calculations in Attachment A)

Minimal air space is remaining in Phase I. Closure has been permitted and is expected to begin construction in Summer 2011.

5.1.1 Remaining Air Space to Intermediate Cover Grade = 307,682 cy

5.1.2 Intermediate Cover Soil Volume = 131,773 cy

5.1.3 Daily Cover Soil Volume = 26,394 cy

Sarasota County

Central County Solid Waste Disposal Complex, Phases I & II

DEP Permit No. 130542-007-SO/01

Remaining Capacity Report, April 2011

- 5.1.4 Waste Only Remaining Air Space = 149,565 cy (as of 12/1/2010, based on Kucera Aerial)
- 5.1.5 Adjusted Waste Only Remaining Air Space = 91,377 cy (as of 1/31/2011, based on Kucera Aerial & actual waste tonnages from 12/2/10 – 1/31/11)
- 5.1.6 Given the Waste Only Remaining Air Space volume of 91,377 cy and a projected monthly waste flow of 28,512 cy, the remaining site life for the Phase I, Class I landfill cell is approximately 3.2 months from January 31, 2011.
- 5.1.7 Based on the County's review of the December 2010 topographic survey, the side slopes do not exceed the permitted maximum slope of 3H:1V, the top elevation does not exceed the permitted design elevation of 121 ft, and other design features are in accordance with the previously approved Phase I Operational Sequence Drawings submitted to the FDEP.

5.2 Phase II (see supporting calculations in Attachment B)

Phase II was placed into operation in 2010. An initial amount (11,228 tn ~ 15,725 cy) of 'select waste' was placed into Cell 1 in August and September 2010.

- 5.2.1 Permitted Air Space = 6,000,000 cy
- 5.2.2 Final Cover Soil Volume = 295,494 cy
- 5.2.3 Daily Cover Soil Volume = 570,451 cy
- 5.2.4 Used Waste Only Air Space = 15,725 cy (as of 12/30/2010)
- 5.2.5 Waste Only Remaining Air Space = 5,118,330 cy
- 5.2.6 Given the Waste Only Remaining Air Space volume of 5,118,330 cy and a projected monthly waste flow of 28,512 cy, the remaining site life for the Phase II, Class I landfill cell is approximately 180 months.
- 5.2.7 Based on the County's review of the December 2010 topographic survey, the side slopes do not exceed the permitted maximum slope of 3H:1V, the top elevation does not exceed the permitted design elevation of 121 ft, and other design features are in accordance with the previously approved Phase II Operational Sequence Drawings submitted to the FDEP.

Sarasota County
Central County Solid Waste Disposal Complex, Phases I & II

DEP Permit No. 130542-007-SO/01

Remaining Capacity Report, April 2011

ATTACHMENTS

- A – 2010 Calculation of Remaining Air Space, Phase I
- B – 2010 Calculation of Remaining Air Space, Phase II
- C – Topographic Survey, Prepared By Kucera International, Inc., December 2, 2010
- D – HDR Engineering, Inc. Sarasota County CCSWDC Soil Balance Report, August 9, 2010

TABLES

- 1 – CCSWDC Phases I and II, 2010 Monthly Waste Tonnages

Sarasota County
Central County Solid Waste Disposal Complex, Phases I & II

DEP Permit No. 130542-007-SO/01

Remaining Capacity Report, April 2011

ATTACHMENT A

2010 CALCULATION OF REMAINING AIR SPACE, PHASE I

2010 CALCULATION OF ESTIMATED REMAINING AIR SPACE (Volume) IN PHASE I

Gross Remaining Phase I Air Space from CAD as of Dec 2, 2010*

$$307,682 \text{ yd}^3*$$

Intermediate Cover Surface Area

$$\text{Total} = 2,691,795 \text{ ft}^2**$$

$$\text{West Slope } 320,786 \text{ ft}^2*$$

$$2,691,795 \text{ ft}^2 - 320,786 \text{ ft}^2 = 2,371,009 \text{ ft}^2 = 263,445 \text{ yd}^2$$

Cover Thickness to Intermediate Grades

$$\text{Final Initial Cover} = 0.5 \text{ ft}$$

$$\text{Final Intermediate Cover} = 1.0 \text{ ft}$$

$$\text{Final Cover Thickness} = 1.5 \text{ ft} = 0.5 \text{ yd}$$

Intermediate Cover Volume

$$263,445 \text{ yd}^2 \times 0.5 \text{ yd} = 131,773 \text{ yd}^3$$

Remaining Total Waste Air Space

$$307,682 \text{ yd}^3 - 131,773 \text{ yd}^3 = 175,959 \text{ yd}^3$$

Volume of Operational Cover Soils (Daily Cover)

~ 15% of Total Waste Air Space

$$175,959 \text{ yd}^3 \times 0.15 = 26,394 \text{ yd}^3$$

Dec 1, 2010 Remaining Waste Volume Only

$$175,959 \text{ yd}^3 - 26,394 \text{ yd}^3 = 149,565 \text{ yd}^3$$

Adjust for Dec 2–31, 2010 and Jan 2011 Waste

$$\text{Dec 2 – 31, 2010} = 20,298 \text{ tn}$$

$$\text{January 2011} = 21,248 \text{ tn}$$

$$= 20,298 \text{ tn} + 21,248 \text{ tn} = 41,546 \text{ tn}$$

$$41,546 \text{ tn} \times \frac{1 \text{ yd}^3}{1,428 \text{ lb}} \times 2,000 \frac{\text{lb}}{\text{tn}} = 58,188 \text{ yd}^3$$

Feb 2011 Estimated Remaining Waste Volume Only

$$149,565 \text{ yd}^3 - 58,188 \text{ yd}^3 = 91,377 \text{ yd}^3$$

CHECK ESTIMATE BASED ON APRIL 2010 REMAINING CAPACITY REPORT

Dec 2009 Estimated Remaining Waste Only Air Space

459,757 yd³***

2010 & Jan 2011 Actual Waste Tonnage

265,549 tn

2010 & Jan 2011 Estimated Waste Volume

$$265,548 \text{ tn} \times \frac{1 \text{ yd}^3}{1,428 \text{ lb}} \times 2,000 \frac{\text{lb}}{\text{tn}} = \mathbf{371,916 \text{ yd}^3}$$

Feb 2011 Estimated Waste Volume Remaining

$$459,757 \text{ yd}^3 - 371,916 \text{ yd}^3 = \mathbf{87,841 \text{ yd}^3}$$

$$\frac{87,841 \text{ yd}^3}{91,377 \text{ yd}^3} \times 100 = \mathbf{96\% \text{ agreement with April 2010 Estimate}}$$

FEBRUARY 2011 CALCULATION OF ESTIMATED REMAINING AIR SPACE (Time) IN PHASE I

2010 Average Tons of Waste per Month

$$\mathbf{20,358 \frac{tn}{mo}}$$

2010 Average Cubic Yards of Waste per Month

$$20,358 \frac{tn}{mo} \times \frac{1 \text{ yd}^3}{1,428 \text{ lb}} \times 2,000 \frac{\text{lb}}{\text{tn}} = \mathbf{28,512 \frac{\text{yd}^3}{mo}}$$

Feb 2011 Waste Volume Remaining

$$\mathbf{91,377 \text{ yd}^3}$$

Estimated Time to Fill Remaining Airspace

$$91,377 \text{ yd}^3 \times \frac{1 \text{ mo}}{28,512 \text{ yd}^3} = \mathbf{3.2 \text{ mo} \sim \text{Mid May 2011}}$$

* Per HDR Engineering, Inc., March 2, 2011

** Per HDR Engineering, Inc. Sarasota County CCSWDC Soil Balance Report, August 9, 2010

*** Per HDR Engineering, Inc. Sarasota County CCSWDC Remaining Capacity Report, April 6, 2010

Sarasota County
Central County Solid Waste Disposal Complex, Phases I & II

DEP Permit No. 130542-007-SO/01

Remaining Capacity Report, April 2011

ATTACHMENT B

2010 CALCULATION OF REMAINING AIR SPACE, PHASE II

2010 CALCULATION OF REMAINING AIR SPACE (Volume) IN PHASE II

Permitted Phase II Air Space*

$$6,000,000 \text{ yd}^3$$

Final Cover Surface Area*

$$2,659,448 \text{ ft}^2 = 295,494 \text{ yd}^2$$

Final Cover Thickness

$$\text{Final Intermediate Cover} = 1.0 \text{ ft}$$

$$\text{Final Cover Soil} = 1.5 \text{ ft}$$

$$\text{Vegetative Soil Layer} = 0.5 \text{ ft}$$

$$\text{Final Cover Thickness} = 3 \text{ ft} = 1 \text{ yd}$$

Final Cover Volume

$$295,494 \text{ yd}^2 \times 1 \text{ yd} = 295,494 \text{ yd}^3$$

Total Waste Air Space

$$6,000,000 \text{ yd}^3 - 295,494 \text{ yd}^3 = 5,704,506 \text{ yd}^3$$

Volume of Operational Cover Soils (Daily Cover)

~ 10% of Total Waste Air Space

$$5,704,506 \text{ yd}^3 \times 0.1 = 570,451 \text{ yd}^3$$

Waste Volume Only

$$5,704,506 \text{ yd}^3 - 570,451 \text{ yd}^3 = 5,134,055 \text{ yd}^3$$

2010 Phase II Waste Disposal Tonnage

$$11,228 \text{ tn}$$

Estimated Waste Compaction Density

$$1,428 \frac{\text{lb}}{\text{yd}^3}$$

2010 Phase II Waste Disposal Volume

$$11,228 \text{ tn} \times \frac{1 \text{ yd}^3}{1,428 \text{ lb}} \times 2,000 \frac{\text{lb}}{\text{tn}} = 15,725 \text{ yd}^3$$

2010 Waste Volume Remaining

$$5,134,055 \text{ yd}^3 - 15,725 \text{ yd}^3 = 5,118,330 \text{ yd}^3$$

2010 % Waste Volume Remaining

$$\frac{5,118,330 \text{ yd}^3}{5,134,055 \text{ yd}^3} \times 100 = 99.7\%$$

2010 CALCULATION OF REMAINING AIR SPACE (Time) IN PHASE II

2010 Average Tons of Waste per Month

$$20,358 \frac{tn}{mo}$$

2010 Average Cubic Yards of Waste per Month

$$20,358 \frac{tn}{mo} \times \frac{1}{1,428} \frac{yd^3}{lb} \times 2,000 \frac{lb}{tn} = 28,512 \frac{yd^3}{mo}$$

2010 Waste Volume Remaining

$$5,118,330 \text{ } yd^3$$

Estimated Time to Fill Remaining Airspace

$$5,118,330 \text{ } yd^3 \times \frac{1}{28,512} \frac{mo}{yd^3} = 180 \text{ } mo \sim 15 \text{ } years$$

* Per HDR Engineering, Inc. Sarasota County CCSWDC Soil Balance Report, August 9, 2010

Sarasota County
Central County Solid Waste Disposal Complex, Phases I & II

DEP Permit No. 130542-007-SO/01

Remaining Capacity Report, April 2011

ATTACHMENT C

**TOPOGRAPHIC SURVEY, PREPARED BY KUCERA
INTERNATIONAL, INC., DECEMBER 2, 2010**

Sarasota County
Central County Solid Waste Disposal Complex, Phases I & II

DEP Permit No. 130542-007-SO/01

Remaining Capacity Report, April 2011

ATTACHMENT D

**HDR ENGINEERING, INC. SARASOTA COUNTY CCSWDC
SOIL BALANCE REPORT, AUGUST 9, 2010**

FILE COPY

August 9, 2010

Lois Rose
Manager, Solid Waste Operations
Sarasota County
4000 Knights Trail Road
Nokomis, FL 34275

Subject: Central County Solid Waste Disposal Complex
Soil Balance Updates Report – August 2010

Dear Lois:

As requested by Sarasota County Solid Waste Operations, HDR has prepared the following soil balance report as a partial update to the September 2006 Soil Balance Study also prepared by HDR. This report incorporates the conceptual build-out of the Class I Landfill at the CCSWDC to include the removal of the previous footprint of Phase V located to the east of Phase IV and replacing it with the proposed footprints for Phases V and VI, located to the south of Phases III and IV, respectively. This configuration is shown on Drawing C-01 provided in Attachment A. In addition, Drawings C-02 through C-05 illustrate the conceptual build-out of final cover configuration for each phase from which the soil balance calculations provided are based.

INTRODUCTION

The soil balance determination includes soils required for construction of the bottom liner systems for Phases III, IV, V, and VI (cut and fill), the protective cover soil over the bottom liner (2 feet) for each phase, the final cover soils for Phases I through VI, and the operational cover (daily) soils required that will be needed for the remainder of Phase I and Phases II through VI. The on-site soils are not expected to meet the required specifications for drainage sand; therefore, the soil balance summary for bottom liner construction of the phases includes the volume of sand needed for the protective cover soil, but this value was excluded from the on-site soil net fill calculation because the material is assumed to be provided from an off-site source.

CLASS I LANDFILL PHASING AND LAYOUT

Due to the reconfiguration of the landfill expansion footprint to include Phases V and VI to south of Phases III and IV, the conceptual bottom liner systems for Phase III and VI provided in the 2006 Soil Balance Study are no longer feasible using a north to south leachate collection drainage system. The leachate collection system must be rotated 90 degrees to allow leachate

drainage from east to west in Phase III and west to east in Phase IV. This configuration allows the pump stations for Phases III and IV to be located on the west and east sides of the Class I landfill footprint, respectively. The conceptual bottom liner for Phase IV representing this change is provided on Drawing C-03 provided in Attachment 1.

The major drawback to this change is that the bottom liners for the Phases III and IV landfills are longer in the east-west direction; therefore the maximum elevation of the bottom liner is greater in order to maintain the required drainage slopes after settlement. This condition results in greater soil fill requirements for construction of the bottom liners, however, this cost is offset by the additional air space gained in Phases V and VI from expansion to the south thereby maximizing the landfill footprint and airspace of the CCSWDC. In order to further reduce the soil fill requirements, the conceptual bottom liner for Phase IV (shown on Drawing C-03) was designed to have the lower portion of the bottom liner located within the groundwater table.

While this layout reduces soil fill, it may represent additional permitting or construction requirements, including the addition of a 3rd geomembrane liner to protect the underlying GCL from water contact. The addition of the 3rd geomembrane and the potential permitting issues should be examined in more detail before final design which includes location of the bottom liner in the water table.

BOTTOM LINER CONSTRUCTION

The soil balance for bottom liner construction was based on the conceptual bottom liner layout for Phase IV comprising approximately 72 acres. The bottom liner was placed with approximately one-third of the bottom liner area below elevation 21 feet NGVD which was assumed to be the typical seasonal high groundwater table for the surrounding phases. The cut and fill estimates were calculated from comparing the conceptual bottom liner to the existing grade from the June 2010 topographic survey by Kucera. The mulch piles located within the footprint of Phase IV and the soil borrow pile located within the footprint of Phase III were removed from the existing grade for estimating the cut and fill requirements. The cut and fill from Phase IV was converted to a cubic yard of soil per acre basis and applied to the remaining Phases III, V, and VI to determine the soil required for construction of those phases. The conceptual bottom liner for Phase IV includes a 1.5% slope along the leachate collection pipe trench and a 2% cross slope with 500 foot spacing between (250 foot slopes) between pipes. This results in a total of 3 pipe trenches within the Phase IV footprint. The bottom liner includes a minimum 3 foot freeboard to the top elevation of the exterior berms, a 10 foot berm top for the anchor trench system, and 3 to 1 slope returning to grade. The Phase IV bottom liner will be connected to the Phase I bottom liner at approximately elevation 132 feet NGVD. The Phase IV conceptual bottom liner is shown on Drawing C-03 in Attachment 1. The soil required for

construction of the bottom liner protective soil cover was estimated using the approximate footprint area of the proposed phases.

OPERATIONAL COVER SOILS

Operational cover soils (daily cover) during filling of the proposed phases was included in the overall volume of the landfill be assuming that 10% of the waste volume filled for the phase would be comprised of daily cover soils. This value was incorporated into the soil balance calculations as a reduction in available air space. The soil balance assumes two scenarios for operational cover, (1) using only soil for daily cover operations with no mulch mixing and (2) using a 50/50 soil to mulch mixture for the daily cover operations. This effectively reduces the soils required for operations by 50% as shown in Attachment 2 in the summary tables for design and life borrow usage.

FINAL COVER CONSTRUCTION

Finally, a conceptual final cover was developed to incorporate the final build-out of the Phase I through Phase VI footprint as shown on Drawing C-01 in Attachment 1. The conceptual final cover includes a 3 to 1 side slope with a flat top at a maximum elevation of 121 feet NGVD. Since the top of the final cover, as shown in the design of the Phase I landfill, which is currently in the permitting process, will include a saw-tooth configuration on the top of the landfill to allow proper draining of stormwater from the top, placing the conceptual top elevation at 121 feet NGVD is considered an overestimate of the air space that will be available from the conceptual cells. The individual phases, as shown on Drawings C02 through C-04, include a conceptual final cover buildout with interim side slopes abutting future expansions. The final cover quantities provided as part of the soil balance include closure of the abutting side slopes as a conservative estimate of soil requirements. The final cover soil quantity was determined by estimating the 3-foot final cover soil layer (12-inch intermediate and 24-inch final cover layers) for each phase using the 3D surface area of the conceptual cover build-outs as shown in the attached drawings.

CONCLUSIONS

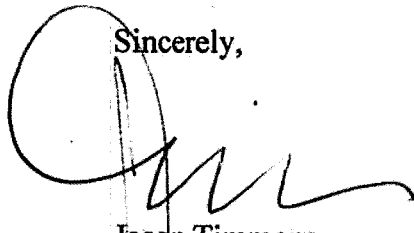
The summary table provided in Attachment 2 provides the results of the soil balance calculations performed using the conceptual bottom liner and final cover buildouts discussed above. In addition, two design life summaries, one for a 100% operational cover soil scenario and a second for 50% soil to mulch operational soils, are provided showing the construction and operational cover soils for each year. The borrow soils are summarized on an annual basis and also on a cumulative basis over the life of the CCSWDC.

In conclusion, the total soil requirements for final buildout of Phases I through VI, assuming operations soils are not mixed with mulch, is approximately 6,951,000 cubic yards. Assuming a 50/50 soil to mulch mix for operational soils, the total borrow soil required for buildout is approximately 5,483,000 cubic yards. The current volume of stockpiled soils located at the CCSWDC stockpile area to the south of Phase II is approximately 600,000 cubic yards. As shown in the 50/50 soil to mulch mixture summary sheet, this quantity of borrow will be depleted by 2021 to 2022. Please note that the life of the borrow stockpile and the design life of the landfill is based on borrow soils comprising 10% of the disposal volume. If the soil ratio in the landfill increases, for example by using additional daily cover soils, the design life and life of the borrow stockpile will be reduced.

The borrow soil requirements above were determined based on bottom liner construction, operational soils, and final cover construction over the operational life of the landfill through 2055 as shown in the tables provided in Attachment 2. Please note that the disposal rates are based on June 2009 through May 2010 disposal rates with a 2% annual increase per year. In addition, the annual disposal volume is based on a fiscal year, from October to September.

Please call me at 813-282-2358 (office) or 813-786-1553 (cell) if you require any clarifications or information relating to this submittal.

Sincerely,



Jason Timmons
Solid Waste Project Manager



Richard A. Siemerling
Solid Waste Section Manager

Attachments

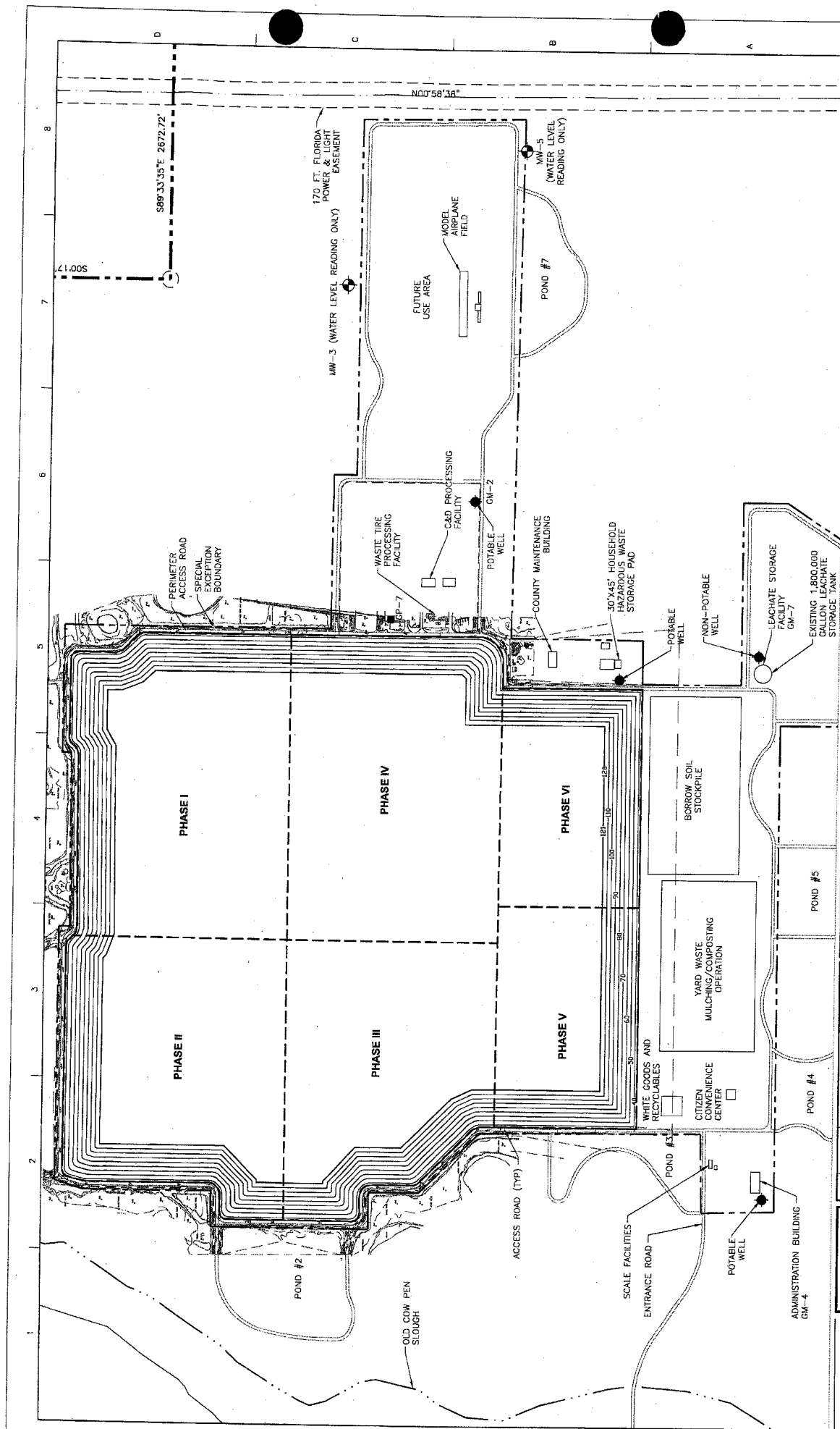
Attachment 1 – Drawings

Attachment 2 – Soil Balance Tables

Xc: Gary Bennett, Sarasota County
Bryan Zoller, PBS&J
File

ATTACHMENT 1

CONCEPTUAL SOIL BALANCE DRAWINGS



Central County Solid Waste Disposal Complex
PHASE I CLASS I LANDFILL
CONCEPTUAL SOIL BALANCE PLANS

FLORIDA
 SARASOTA COUNTY

PROJECT NUMBER: 00084-130430-001

| ISSUE | DATE | INITIAL | DESIGN | DESCRIPTION |
|-------|----------|---------|--------|----------------|
| A | 6/3/2010 | | | INITIAL DESIGN |

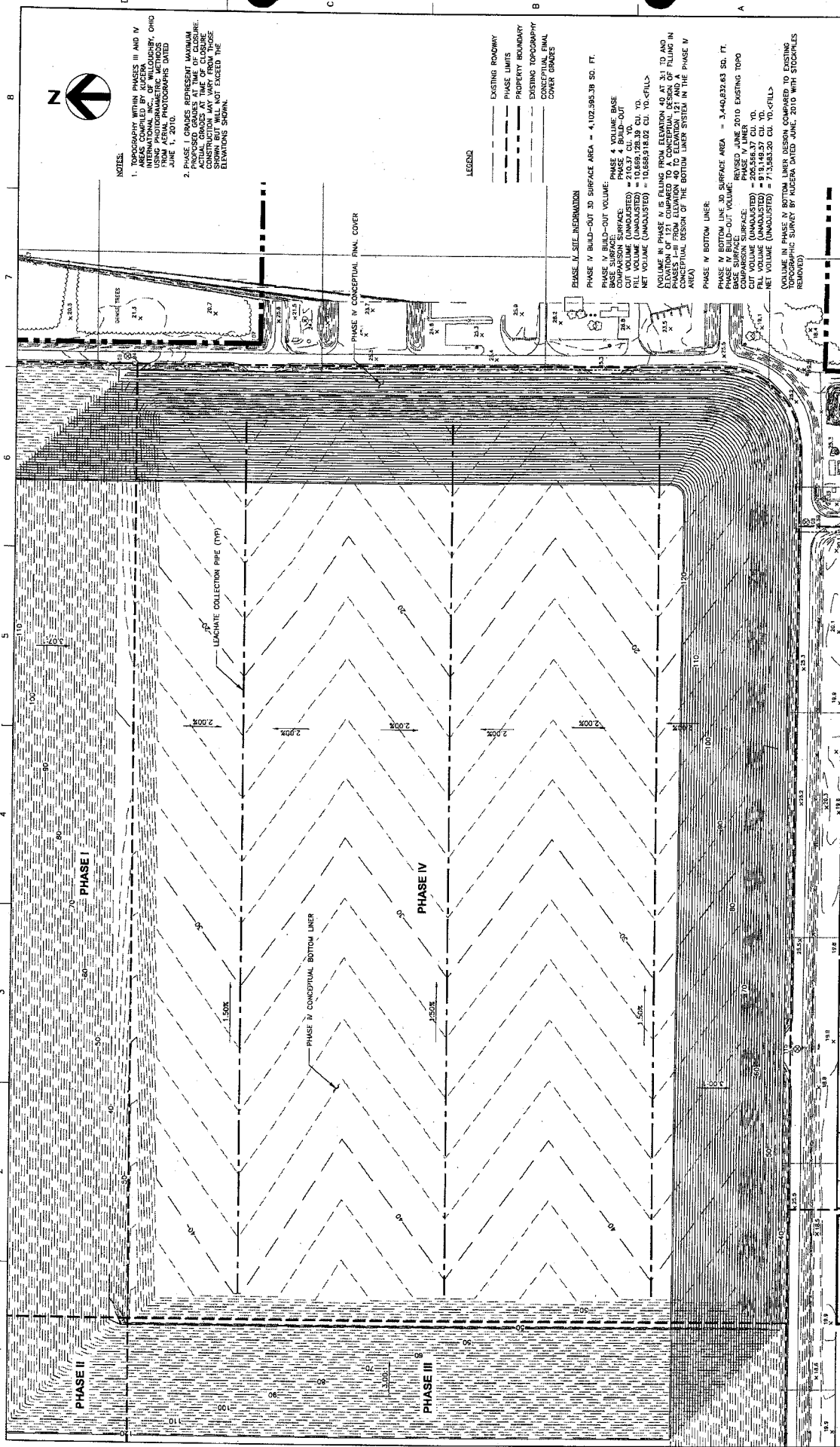
OVERALL SITE PLAN AND BUILD-OUT

SCALE: 1"=300'

SHEET: 00C-01

PROJECT MANAGER: R. SCHWAB
 REVIEWED BY: R. SCHWAB
 CIVIL DESIGN: J. THOMAS
 DRAWN BY: B. JOHNSON

HR
 H&R Engineering, Inc.
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 Sarasota, FL 34233
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 W: www.hr-engineering.com



NOTES:

1. TOPOGRAPHY WITHIN PHASES III AND IV AREAS COMPILED BY KACER INTERNATIONAL INC. OF WILLOUGHBY, OHIO FROM AERIAL PHOTOGRAPHS DATED JUNE 1, 2010.
2. PHASE I GRADES REPRESENT MAXIMUM EXISTING GRADES. PHASE II GRADES REPRESENT MAXIMUM EXISTING GRADES. PHASE III GRADES REPRESENT MAXIMUM EXISTING GRADES. PHASE IV GRADES REPRESENT MAXIMUM EXISTING GRADES. CONSTRUCTION MAY VARY FROM THOSE ELEVATIONS SHOWN.

LEGEND

- EXISTING ROADWAY
- PHASE LIMITS
- PROPERTY BOUNDARY
- EXISTING TOPOGRAPHY
- CONCEPTUAL FINAL COVER GRADES

PHASE IV SITE INFORMATION

PHASE IV BUILD-OUT 3D SURFACE AREA = 4,102,585.39 SQ. FT.

PHASE IV BUILD-OUT VOLUME

PHASE IV BUILD-OUT BASE SURFACE AREA = 4,102,585.39 SQ. FT.

PHASE IV BUILD-OUT CUT VOLUME (UNADJUSTED) = 210,337 CU. YD.

PHASE IV BUILD-OUT FILL VOLUME (UNADJUSTED) = 210,337 CU. YD.

PHASE IV BUILD-OUT NET VOLUME (UNADJUSTED) = 0.00 CU. YD.

PHASE IV BUILD-OUT VOLUME IN PHASE IV IS FILLING FROM ELEVATION 40 AT X1 TO AND ELEVATION OF 121 COMPARED TO A CONCEPTUAL DESIGN OF FILLING IN CONCEPTUAL DESIGN OF THE BOTTOM LINER SYSTEM IN THE PHASE IV AREA

PHASE IV BOTTOM LINER:

PHASE IV BOTTOM LINER 3D SURFACE AREA = 3,440,832.63 SQ. FT.

PHASE IV BOTTOM LINER VOLUME

PHASE IV BOTTOM LINER CUT VOLUME (UNADJUSTED) = 205,556.37 CU. YD.

PHASE IV BOTTOM LINER FILL VOLUME (UNADJUSTED) = 205,556.37 CU. YD.

PHASE IV BOTTOM LINER NET VOLUME (UNADJUSTED) = 0.00 CU. YD.

PHASE IV BOTTOM LINER VOLUME IN PHASE IV IS FILLING FROM ELEVATION 40 AT X1 TO AND ELEVATION OF 121 COMPARED TO A CONCEPTUAL DESIGN OF FILLING IN CONCEPTUAL DESIGN OF THE BOTTOM LINER SYSTEM IN THE PHASE IV AREA

PHASE IV BOTTOM LINER TOPOGRAPHIC SURVEY BY NUSSEN DATED JAN. 2010 WITH STIPPLES REMOVED

Central County Solid Waste Disposal Complex

PHASE I CLASS I LANDFILL

CONCEPTUAL SOIL BALANCE PLANS

FLORIDA

SARASOTA COUNTY

PROJECT NUMBER 00006-1-30030-001

ISSUE DATE DESCRIPTION

A 8/3/2010 INITIAL DESIGN

PHASE IV SITE PLAN

FILENAME SCALE 1"=100'

SHEET 00C-03

PROJECT MANAGER R. SEEVERING

REVIEWED BY R. SEEVERING

CIVIL DESIGN J. TIMMONS

DRAWN BY S. JOHNSON

HDR

HEADQUARTERS: 1000 N. 10TH AVE., SUITE 1000, DENVER, CO 80202

PHOTOGRAPHY: 1000 N. 10TH AVE., SUITE 1000, DENVER, CO 80202

HDR Engineering, Inc.

| | | | | | |
|---------|------------------|----------|--------------|------|----------|
| Project | Sarasota County | Computed | J. Timmons | Date | 8/2/2010 |
| Subject | CCSWDC | Checked | R. Siemering | Date | 8/2/2010 |
| Task | Class I Landfill | Sheet | 1 | Of | 1 |

General Phase Parameters

| Phase | Bottom Liner Surface Area (square feet) | Bottom Liner Surface Area (acres) | Bottom Liner 3D Surface Area* (square feet) | Bottom Liner 3D Surface Area* (acres) |
|-----------|---|-----------------------------------|---|---------------------------------------|
| Phase I | 2,395,800 | 55.0 | 2,646,339 | 60.8 |
| Phase II | 2,352,240 | 54.0 | 2,598,224 | 59.6 |
| Phase III | 2,465,729 | 56.6 | 2,723,580 | 62.5 |
| Phase IV | 3,115,076 | 71.5 | 3,440,833 | 79.0 |
| Phase V | 1,507,615 | 34.6 | 1,665,272 | 38.2 |
| Phase VI | 1,482,233 | 34.0 | 1,637,237 | 37.6 |
| Totals | 13,318,693 | 305.8 | 14,711,484 | 337.7 |

*3D surface area represents surface with side slopes included (vertical component).

Phase Bottom Liner Construction

| Phase | Bottom Liner Cut (cubic yards) | Bottom Liner Fill (cubic yards) | Protective Soil Cover (cubic yards) | Net Soil Fill* (cubic yards) |
|-----------|--------------------------------------|---------------------------------|-------------------------------------|------------------------------|
| Phase I | 0 | 0 | 0 | 0 |
| Phase II | 0 | 0 | 0 | 0 |
| Phase III | 162,715 | 727,550 | 201,747 | 564,834.6 |
| Phase IV | 205,566 | 919,150 | 254,876 | 713,583.2 |
| Phase V | 99,489 | 444,844 | 123,353 | 345,355.4 |
| Phase VI | 97,814 | 437,355 | 121,277 | 339,541.2 |
| Totals | 565,584 | 2,528,899 | 701,253 | 1,963,314 |
| | Average Cut per Acre for Phase IV = | | 2,602 | cubic yards/acre |
| | Average Fill Per Acre for Phase IV = | | 11,636 | cubic yards/acre |

*Excludes Protective Soil Cover for bottom liner since this materials is assumed to be imported from off-site.

Phase Operations Soils

| Phase | Total Airspace (cubic yards) | Total Waste Air | | Operational Cover Soils | |
|-----------|------------------------------|----------------------|-----------------------------------|----------------------------|--|
| | | Space* (cubic yards) | Waste Volume Only** (cubic yards) | Soil Only*** (cubic yards) | 50/50 Soil to Mulch Mixture*** (cubic yards) |
| Phase I | 447,819 | 348,123 | 313,311 | 34,812 | 17,406 |
| Phase II | 6,000,000 | 5,704,506 | 5,134,055 | 570,451 | 285,226 |
| Phase III | 6,397,817 | 5,871,383 | 5,284,245 | 587,138 | 293,569 |
| Phase IV | 10,668,918 | 9,958,198 | 8,962,378 | 995,820 | 497,910 |
| Phase V | 3,713,723 | 3,387,143 | 3,048,429 | 338,714 | 169,357 |
| Phase VI | 4,450,438 | 4,093,377 | 3,684,039 | 409,338 | 204,669 |
| Totals | 31,678,715 | 29,362,730 | 26,426,457 | 2,936,273 | 1,468,137 |

*Total Waste Air Space = Total Airspace - Final Cover Soil - Protective Cover Soil

**Waste Volume Only = Total Waste Air Space - Soil Only for Operational Cover

***Volume of operational cover soil estimated as 10% of Total Waste Air Space. 50/50 mixtures is Soil Only divided by 2.

Phase Final Cover Construction - Estimated From Drawings C-02 through C-04

| Phase | Final Cover Surface Area (square feet) | Final Cover Surface Area (acres) | Final Cover Soil (cubic yards) |
|-----------|--|----------------------------------|--------------------------------|
| Phase I | 2,691,795 | 61.8 | 299,088 |
| Phase II | 2,659,448 | 61.1 | 295,494 |
| Phase III | 2,922,186 | 67.1 | 324,687 |
| Phase IV | 4,102,595 | 94.2 | 455,844 |
| Phase V | 1,829,038 | 42.0 | 203,226 |
| Phase VI | 2,122,052 | 48.7 | 235,784 |
| Totals | 16,327,114 | 375 | 1,814,124 |

**Estimate of Site Life and Borrow Requirements
1.5% Leachate Collection Pipe Slope, 0% Soil Mixing Ratio for Operational Cover, Maximum Elevation 121 Feet NGVD**

| Year (1) | Class I Waste Disposed Tons (2) | Incremental Capacity Used CY (3) | Total Capacity Used CY (4) | Operational Cover Required CY (5) | Remaining Capacity CY (6) | Cell Construction Required (7) | Additional Capacity CY (8) | Net Borrow Fill Required for Cell Construction CY (9) | Cell Closure Required | Closure AC (10) | Borrow Fill Required for Closure CY (11) | Borrow Required for Berms CY (12) | Total Borrow Required CY (13) | Cumulative Borrow Required CY | Year (1) |
|--------------|---------------------------------|----------------------------------|----------------------------|-----------------------------------|---------------------------|--------------------------------|----------------------------|---|-----------------------|-----------------|--|-----------------------------------|-------------------------------|-------------------------------|----------|
| 2010 | 83,426 | 129,026 | 129,026 | 12,983 | 218,297 | Phase I Remaining | 348,123 | 0 | Phase I | 61.8 | 299,088 | 1,048 | 14,031 | 14,031 | 2010 |
| 2011 | 264,523 | 370,481 | 411,646 | 41,165 | 5,511,157 | Phase II | 5,704,506 | | | | | 3,323 | 343,576 | 357,607 | 2011 |
| 2012 | 269,814 | 377,890 | 419,878 | 41,988 | 5,091,279 | | | | | | | 3,390 | 45,378 | 402,985 | 2012 |
| 2013 | 275,210 | 385,448 | 426,276 | 42,828 | 4,663,003 | | | | | | | 3,457 | 46,285 | 449,270 | 2013 |
| 2014 | 280,714 | 393,157 | 436,841 | 43,684 | 4,226,162 | | | | | | | 3,526 | 47,210 | 496,480 | 2014 |
| 2015 | 286,329 | 401,020 | 445,578 | 44,588 | 3,780,584 | | | | | | | 3,597 | 48,155 | 544,635 | 2015 |
| 2016 | 292,055 | 409,041 | 454,490 | 45,449 | 3,326,094 | | | | | | | 3,669 | 49,118 | 593,753 | 2016 |
| 2017 | 297,896 | 417,222 | 463,580 | 46,358 | 2,862,514 | | | | | | | 3,742 | 50,100 | 643,853 | 2017 |
| 2018 | 303,854 | 425,566 | 472,851 | 47,285 | 2,389,663 | | | | | | | 3,817 | 51,102 | 694,965 | 2018 |
| 2019 | 309,931 | 434,077 | 482,308 | 48,231 | 1,907,355 | | | | | | | 3,894 | 52,125 | 747,080 | 2019 |
| 2020 | 316,130 | 442,759 | 491,954 | 49,195 | 1,415,401 | | | | | | | 3,971 | 53,166 | 800,246 | 2020 |
| 2021 | 322,452 | 451,614 | 501,793 | 50,179 | 913,608 | | | | | | | 4,051 | 54,230 | 854,476 | 2021 |
| 2022 | 328,901 | 460,646 | 511,829 | 51,183 | 6,273,162 | Phase III | 5,871,383 | 564,835 | Phase II | 61.1 | 295,494 | 4,132 | 915,644 | 1,770,120 | 2022 |
| 2023 | 335,480 | 469,859 | 522,066 | 52,207 | 5,751,096 | | | | | | | 4,214 | 56,421 | 1,826,541 | 2023 |
| 2024 | 342,189 | 479,256 | 532,507 | 53,261 | 5,218,589 | | | | | | | 4,299 | 57,550 | 1,884,091 | 2024 |
| 2025 | 349,033 | 488,842 | 543,158 | 54,316 | 4,675,431 | | | | | | | 4,385 | 58,701 | 1,942,792 | 2025 |
| 2026 | 356,014 | 498,618 | 554,020 | 55,402 | 4,121,411 | | | | | | | 4,472 | 59,874 | 2,002,666 | 2026 |
| 2027 | 363,134 | 508,591 | 565,101 | 56,510 | 3,556,310 | | | | | | | 4,562 | 61,072 | 2,063,738 | 2027 |
| 2028 | 370,396 | 518,763 | 576,403 | 57,640 | 2,979,907 | | | | | | | 4,653 | 62,293 | 2,126,031 | 2028 |
| 2029 | 377,804 | 529,138 | 587,931 | 58,793 | 2,391,976 | | | | | | | 4,746 | 63,539 | 2,189,570 | 2029 |
| 2030 | 385,361 | 539,721 | 599,690 | 59,969 | 1,792,286 | | | | | | | 4,841 | 64,810 | 2,254,380 | 2030 |
| 2031 | 393,068 | 550,515 | 611,683 | 61,168 | 1,180,603 | | | | | | | 4,938 | 66,106 | 2,320,486 | 2031 |
| 2032 | 400,929 | 561,525 | 623,917 | 62,392 | 10,514,884 | Phase IV | 9,958,198 | 713,683 | Phase III | 67.1 | 324,587 | 5,037 | 1,106,700 | 3,426,186 | 2032 |
| 2033 | 408,948 | 572,756 | 636,396 | 63,642 | 9,878,488 | | | | | | | 5,137 | 68,777 | 3,494,963 | 2033 |
| 2034 | 417,127 | 584,211 | 649,123 | 64,912 | 9,229,365 | | | | | | | 5,240 | 70,152 | 3,565,115 | 2034 |
| 2035 | 425,469 | 595,895 | 662,106 | 66,211 | 8,587,259 | | | | | | | 5,345 | 71,556 | 3,636,671 | 2035 |
| 2036 | 433,979 | 607,813 | 675,348 | 67,535 | 7,891,911 | | | | | | | 5,452 | 72,987 | 3,709,658 | 2036 |
| 2037 | 442,658 | 619,969 | 688,854 | 68,885 | 7,203,057 | | | | | | | 5,561 | 74,446 | 3,784,104 | 2037 |
| 2038 | 451,511 | 632,369 | 702,632 | 70,263 | 6,500,425 | | | | | | | 5,672 | 75,935 | 3,860,039 | 2038 |
| 2039 | 460,541 | 645,016 | 716,684 | 71,668 | 5,783,741 | | | | | | | 5,786 | 77,454 | 3,937,493 | 2039 |
| 2040 | 469,752 | 657,916 | 731,018 | 73,102 | 5,052,723 | | | | | | | 5,901 | 79,003 | 4,016,496 | 2040 |
| 2041 | 479,147 | 671,075 | 745,639 | 74,664 | 4,307,084 | | | | | | | 6,019 | 80,583 | 4,097,079 | 2041 |
| 2042 | 488,730 | 684,496 | 760,551 | 76,055 | 3,546,533 | | | | | | | 6,140 | 82,195 | 4,179,274 | 2042 |
| 2043 | 498,505 | 698,186 | 775,762 | 77,576 | 2,770,771 | | | | | | | 6,263 | 83,839 | 4,263,113 | 2043 |
| 2044 | 508,475 | 712,150 | 791,278 | 79,128 | 1,979,493 | | | | | | | 6,388 | 85,516 | 4,348,629 | 2044 |
| 2045 | 518,645 | 726,383 | 807,103 | 80,710 | 1,172,390 | | | | | | | 6,516 | 87,226 | 4,435,855 | 2045 |
| 2046 | 529,017 | 740,921 | 823,246 | 82,325 | 3,736,287 | Phase V | 3,387,143 | 345,355 | Phase IV | 94.2 | 455,844 | 6,646 | 890,170 | 5,326,025 | 2046 |
| 2047 | 539,598 | 755,739 | 839,710 | 83,971 | 2,896,577 | | | | | | | 6,779 | 90,750 | 5,416,775 | 2047 |
| 2048 | 550,390 | 770,854 | 856,504 | 85,650 | 2,040,073 | | | | | | | 6,914 | 92,564 | 5,509,339 | 2048 |
| 2049 | 561,398 | 786,271 | 873,634 | 87,363 | 1,166,439 | | | | | | | 7,063 | 94,416 | 5,603,755 | 2049 |
| 2050 | 572,625 | 801,996 | 891,107 | 89,111 | 4,368,709 | Phase VI | 4,093,377 | 339,541 | Phase V | 42.0 | 203,226 | 7,194 | 96,373 | 6,242,628 | 2050 |
| 2051 | 584,078 | 818,036 | 908,929 | 90,893 | 3,459,780 | | | | | | | 7,338 | 98,231 | 6,341,059 | 2051 |
| 2052 | 595,760 | 834,397 | 927,108 | 92,711 | 2,532,672 | | | | | | | 7,484 | 100,195 | 6,441,254 | 2052 |
| 2053 | 607,675 | 851,085 | 945,650 | 94,665 | 1,587,022 | | | | | | | 7,634 | 102,199 | 6,543,453 | 2053 |
| 2054 | 619,828 | 868,107 | 964,563 | 96,456 | 622,459 | | | | | | | 7,787 | 104,243 | 6,647,696 | 2054 |
| 2055 | 632,225 | 885,459 | 983,854 | 98,385 | -361,395 | | | | | | | 5,025 | 303,054 | 6,950,750 | 2055 |
| TOTAL | | | | 2,936,273 | | | | 1,963,314 | | | | 237,038 | 6,950,750 | | |

- Notes:
- (1) Operational Year. 2010 includes June through December only.
 - (2) Based on disposal rates from June 2009 through May 2010 with 2% annual increase.
 - (3) Assumed average in-place waste density of 1,428 lbs/CY.
 - (4) Represents capacity used at the end of the operational year.
 - (5) Assumed Operational Soil Cover is 10% of Total Waste Volume. Daily cover consists of 100% soil.
 - (6) Represents remaining capacity at the end of the year.
 - (7) Cell Construction as shown in conceptual drawings.
 - (8) See Net Volume calculation on supporting information table. Remaining capacity in Phase I from Kucera June 2010 survey.
 - (9) See supporting table for net borrow soil cut and fill calculations. Net fill is shown for construction.
 - (10) Closure for each phase upon completion of interim build-out.
 - (11) Assumes 3 feet final cover soil (1 foot intermediate cover and 2 foot final/vegetative cover).
 - (12) Stormwater Berms include 80,000 LF of berm at 40 cubic feet of soil per LF evenly spaced based on waste received.
 - (13) Total Borrow Required = Operational Cover Required + Net Borrow Required for Cell Construction + Borrow Fill Required for Closure + Borrow for Berms

**Estimate of Site Life and Borrow Requirements
1.5% Leachate Collection Pipe Slope, 50% Soil Mixing Ratio for Operational Cover, Maximum Elevation 121 Feet NGVD**

| Year (1) | Class I Waste Disposed Tons (2) | Incremental Capacity Used CY (3) | Total Capacity Used CY (4) | Operational Cover Required CY (5) | Remaining Capacity CY (6) | Cell Construction Required (7) | Additional Capacity CY (8) | Net Borrow Fill Required for Cell Construction CY (9) | Cell Closure Required | Closure AC (10) | Borrow Fill Required for Closure CY (11) | Borrow Required for Berms CY (12) | Total Borrow Required CY (13) | Cumulative Borrow Required CY | Year (1) |
|--------------|---------------------------------|----------------------------------|----------------------------|-----------------------------------|---------------------------|--------------------------------|----------------------------|---|-----------------------|-----------------|--|-----------------------------------|-------------------------------|-------------------------------|----------|
| 2010 | 83,426 | 116,843 | 129,826 | 12,983 | 218,297 | Phase I Remaining | 348,123 | 0 | Phase I | 61.8 | 299,088 | 1,048 | 7,540 | 7,540 | 2010 |
| 2011 | 264,523 | 370,481 | 411,646 | 41,165 | 5,511,157 | Phase II | 5,704,506 | | | | | 3,323 | 322,994 | 3,323 | 2011 |
| 2012 | 269,814 | 377,890 | 419,878 | 41,988 | 5,091,279 | | | | | | | 3,390 | 24,384 | 354,918 | 2012 |
| 2013 | 275,210 | 385,448 | 428,276 | 42,828 | 4,663,003 | | | | | | | 3,457 | 24,871 | 379,789 | 2013 |
| 2014 | 280,714 | 393,157 | 436,841 | 43,684 | 4,226,192 | | | | | | | 3,526 | 25,368 | 405,157 | 2014 |
| 2015 | 286,329 | 401,020 | 445,578 | 44,568 | 3,780,584 | | | | | | | 3,597 | 25,876 | 431,033 | 2015 |
| 2016 | 292,055 | 409,041 | 454,490 | 45,449 | 3,326,094 | | | | | | | 3,669 | 26,394 | 457,427 | 2016 |
| 2017 | 297,896 | 417,222 | 463,580 | 46,358 | 2,862,514 | | | | | | | 3,742 | 26,921 | 484,348 | 2017 |
| 2018 | 303,854 | 425,566 | 472,851 | 47,285 | 2,389,663 | | | | | | | 3,817 | 27,460 | 511,808 | 2018 |
| 2019 | 309,931 | 434,077 | 482,308 | 48,231 | 1,907,355 | | | | | | | 3,894 | 28,010 | 539,818 | 2019 |
| 2020 | 316,130 | 442,759 | 491,954 | 49,195 | 1,415,401 | | | | | | | 3,971 | 28,569 | 568,387 | 2020 |
| 2021 | 322,452 | 451,614 | 501,793 | 50,179 | 913,608 | | | | | | | 4,051 | 29,141 | 597,528 | 2021 |
| 2022 | 328,901 | 460,646 | 511,829 | 51,183 | 6,273,162 | Phase III | 5,871,383 | 564,835 | Phase II | 61.1 | 295,494 | 4,132 | 890,052 | 1,487,580 | 2022 |
| 2023 | 335,480 | 469,859 | 522,066 | 52,207 | 5,751,096 | | | | | | | 4,214 | 30,318 | 1,517,898 | 2023 |
| 2024 | 342,189 | 479,256 | 532,507 | 53,251 | 5,218,589 | | | | | | | 4,299 | 30,925 | 1,548,823 | 2024 |
| 2025 | 349,033 | 488,842 | 543,158 | 54,316 | 4,675,431 | | | | | | | 4,385 | 31,543 | 1,580,366 | 2025 |
| 2026 | 356,014 | 498,618 | 554,020 | 55,402 | 4,121,411 | | | | | | | 4,472 | 32,173 | 1,612,539 | 2026 |
| 2027 | 363,134 | 508,591 | 565,101 | 56,510 | 3,556,310 | | | | | | | 4,562 | 32,817 | 1,645,356 | 2027 |
| 2028 | 370,396 | 518,763 | 576,403 | 57,640 | 2,979,907 | | | | | | | 4,653 | 33,473 | 1,678,829 | 2028 |
| 2029 | 377,804 | 529,138 | 587,931 | 58,793 | 2,391,976 | | | | | | | 4,746 | 34,143 | 1,712,972 | 2029 |
| 2030 | 385,361 | 539,721 | 599,690 | 59,969 | 1,792,286 | | | | | | | 4,841 | 34,826 | 1,747,798 | 2030 |
| 2031 | 393,068 | 550,515 | 611,683 | 61,168 | 1,180,603 | Phase IV | 9,958,198 | 713,683 | Phase III | 67.1 | 324,687 | 4,938 | 35,522 | 1,783,320 | 2031 |
| 2032 | 400,929 | 561,525 | 623,917 | 62,392 | 10,514,864 | | | | | | | 5,037 | 1,074,504 | 2,857,824 | 2032 |
| 2033 | 408,948 | 572,756 | 636,396 | 63,640 | 9,878,488 | | | | | | | 5,137 | 36,957 | 2,894,781 | 2033 |
| 2034 | 417,127 | 584,912 | 649,123 | 64,912 | 9,229,365 | | | | | | | 5,240 | 37,696 | 2,932,477 | 2034 |
| 2035 | 425,469 | 595,895 | 662,106 | 66,211 | 8,567,259 | | | | | | | 5,345 | 38,451 | 2,970,928 | 2035 |
| 2036 | 433,979 | 607,813 | 675,348 | 67,535 | 7,891,911 | | | | | | | 5,452 | 39,220 | 3,010,148 | 2036 |
| 2037 | 442,658 | 619,969 | 688,854 | 68,885 | 7,203,057 | | | | | | | 5,561 | 40,004 | 3,050,152 | 2037 |
| 2038 | 451,511 | 632,369 | 702,632 | 70,263 | 6,500,425 | | | | | | | 5,672 | 40,804 | 3,090,956 | 2038 |
| 2039 | 460,541 | 645,016 | 716,684 | 71,668 | 5,783,741 | | | | | | | 5,786 | 41,620 | 3,132,576 | 2039 |
| 2040 | 469,752 | 657,916 | 731,018 | 73,102 | 5,052,723 | | | | | | | 5,901 | 42,452 | 3,175,028 | 2040 |
| 2041 | 479,147 | 671,075 | 745,639 | 74,564 | 4,307,084 | | | | | | | 6,019 | 43,301 | 3,218,329 | 2041 |
| 2042 | 488,730 | 684,496 | 760,551 | 76,055 | 3,546,533 | | | | | | | 6,140 | 44,168 | 3,262,497 | 2042 |
| 2043 | 498,505 | 698,186 | 775,762 | 77,576 | 2,770,771 | | | | | | | 6,263 | 45,051 | 3,307,548 | 2043 |
| 2044 | 508,475 | 712,150 | 791,278 | 79,128 | 1,979,493 | | | | | | | 6,388 | 45,952 | 3,353,500 | 2044 |
| 2045 | 518,645 | 726,393 | 807,103 | 80,710 | 1,172,390 | Phase V | 3,387,143 | 345,355 | Phase IV | 94.2 | 455,844 | 6,516 | 46,871 | 3,400,371 | 2045 |
| 2046 | 529,017 | 740,921 | 823,246 | 82,325 | 3,736,287 | | | | | | | 6,646 | 47,808 | 3,448,179 | 2046 |
| 2047 | 539,598 | 755,739 | 839,710 | 83,971 | 2,896,577 | | | | | | | 6,779 | 48,765 | 3,496,944 | 2047 |
| 2048 | 550,390 | 770,854 | 856,504 | 85,650 | 2,040,073 | | | | | | | 6,914 | 49,739 | 3,546,683 | 2048 |
| 2049 | 561,398 | 786,271 | 873,634 | 87,363 | 1,166,439 | Phase VI | 4,093,377 | 339,541 | Phase V | 42.0 | 203,226 | 7,053 | 50,735 | 3,597,418 | 2049 |
| 2050 | 572,625 | 801,996 | 891,107 | 89,111 | 4,368,709 | | | | | | | 7,194 | 51,747 | 3,649,165 | 2050 |
| 2051 | 584,078 | 818,036 | 908,929 | 90,893 | 3,459,780 | | | | | | | 7,338 | 52,785 | 3,701,950 | 2051 |
| 2052 | 595,760 | 834,397 | 927,108 | 92,711 | 2,532,672 | | | | | | | 7,484 | 53,840 | 3,755,790 | 2052 |
| 2053 | 607,675 | 851,085 | 945,650 | 94,565 | 1,587,022 | | | | | | | 7,634 | 54,917 | 3,810,707 | 2053 |
| 2054 | 619,828 | 868,107 | 964,563 | 96,456 | 622,459 | | | | | | | 7,787 | 56,015 | 3,866,722 | 2054 |
| 2055 | 632,225 | 885,469 | 983,854 | 98,385 | -361,395 | | | | | | | 8,025 | 57,131 | 3,923,853 | 2055 |
| TOTAL | | | | 2,936,273 | | | | 1,963,314 | | | 1,814,124 | 237,038 | 5,482,623 | | |

- Notes:
- (1) Operational Year. 2010 includes June through December only.
 - (2) Based on disposal rates from June 2009 through May 2010 with 2% annual increase.
 - (3) Assumed average in-place waste density of 1,428 lbs/CY.
 - (4) Represents capacity used at the end of the operational year.
 - (5) Assumed Operational Soil Cover is 10% of Total Waste Volume. Daily cover consists of 50% soil.
 - (6) Represents remaining capacity at the end of the year.
 - (7) Cell Construction as shown in conceptual drawings.
 - (8) See Net Volume calculation on supporting information table. Remaining capacity in Phase I from Kucera June 2010 survey.
 - (9) See supporting table for net borrow soil out and fill calculations. Net fill is shown for construction.
 - (10) Closure for each phase upon completion of interim build-out.
 - (11) Assumes 3 feet final cover soil (1 foot intermediate cover and 2 foot final vegetative cover).
 - (12) Stormwater Berms include 80,000 LF of berm at 40 cubic feet of soil per LF evenly spaced based on waste received.
 - (13) Total Borrow Required = Operational Cover Required / 2 + Net Borrow Required for Cell Construction + Borrow Fill Required for Closure + Borrow for Berms

Sarasota County
Central County Solid Waste Disposal Complex, Phases I & II

DEP Permit No. 130542-007-SO/01

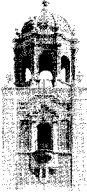
Remaining Capacity Report, April 2011

TABLE 1
CCSWDC PHASES I AND II, 2010 MONTHLY WASTE
TONNAGES

TABLE 1. WASTE TONNAGES - JANUARY 1, 2010 THROUGH DECEMBER 31, 2010
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX
SARASOTA COUNTY, FLORIDA

| TBL ENTRY | WASTE TYPE TO LANDFILL | PHASE I (2010) | | | | | | | | | | | | TOTAL (TONS) |
|--------------|---------------------------|-------------------|--------------------|-----------------|-----------------|---------------|----------------|----------------|------------------|-----------------------|-------------------|--------------------|--------------------|-----------------|
| | | JANUARY (TONS) | FEBRUARY (TONS) | MARCH (TONS) | APRIL (TONS) | MAY (TONS) | JUNE (TONS) | JULY (TONS) | AUGUST (TONS) | SEPTEMBER R (TONS) | OCTOBER (TONS) | NOVEMBER (TONS) | DECEMBER (TONS) | |
| 10 | MIXED GARBAGE | 21,540 | 20,421 | 24,819 | 23,574 | 20,423 | 20,815 | 20,935 | 18,551 | 10,709 | 18,499 | 20,835 | 20,866 | 241,986 |
| 30 | FRIABLE ASBESTOS | - | - | - | - | - | - | 0 | 5 | - | - | - | 4 | 9 |
| 35 | NON FRIABLE ASBESTOS | 1 | 1 | 4 | 16 | 5 | 26 | 8 | 19 | 76 | - | 14 | 136 | 305 |
| 40 | SLUDGE | 127 | 93 | 104 | 102 | 32 | - | - | 28 | - | - | - | 90 | 576 |
| 200 | YARD WASTE TO LANDFILL | 70 | 1 | 4 | 7 | 11 | 6 | 11 | - | - | - | - | - | 110 |
| 210 | CANKER YARD WASTE | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | BAGS FROM YARD WASTE | - | 74 | 59 | 54 | 45 | 39 | 24 | 31 | 34 | 35 | 33 | 38 | 464 |
| 300 | DISASTER MIXED GARBAGE | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 410 | TIRES - SHREDDED | 68 | 68 | 62 | 53 | 117 | 65 | 72 | 62 | 54 | 72 | 85 | 72 | 8 |
| 450 | TIRES - BIG LANDFILLED | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | | 21,806 | 20,658 | 25,051 | 23,807 | 20,631 | 20,951 | 21,049 | 18,696 | 10,873 | 18,606 | 20,967 | 21,206 | 244,301 |
| | | | | | | | | | | | | Monthly Average | | 20,358 |

| TBL ENTRY | WASTE TYPE TO LANDFILL | PHASE II (2010) | | | | | | | | | | | | TOTAL (TONS) |
|--------------|---------------------------|-------------------|--------------------|-----------------|-----------------|---------------|----------------|----------------|------------------|-----------------------|-------------------|--------------------|--------------------|-----------------|
| | | JANUARY (TONS) | FEBRUARY (TONS) | MARCH (TONS) | APRIL (TONS) | MAY (TONS) | JUNE (TONS) | JULY (TONS) | AUGUST (TONS) | SEPTEMBER R (TONS) | OCTOBER (TONS) | NOVEMBER (TONS) | DECEMBER (TONS) | |
| 10 | MIXED GARBAGE | - | - | - | - | - | - | - | 2,734 | 8,494 | - | - | - | 11,228 |
| 30 | FRIABLE ASBESTOS | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 35 | NON FRIABLE ASBESTOS | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 40 | SLUDGE | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | YARD WASTE TO LANDFILL | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 210 | CANKER YARD WASTE | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 220 | BAGS FROM YARD WASTE | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | DISASTER MIXED GARBAGE | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 410 | TIRES - SHREDDED | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 450 | TIRES - BIG LANDFILLED | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | | - | - | - | - | - | - | - | 2,734 | 8,494 | - | - | - | 11,228 |



SARASOTA COUNTY

"Dedicated to Quality Service"

April 12, 2010

Susan Pelz, P.E.
Solid Waste Section
Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

51614

Dept. of Environmental
Protection
APR 15 2010
Southwest District

RE: Central County Solid Waste Disposal Complex
Permit Number 130542-007-SO/01
Annual Topographic Survey and Disposal Capacity Report - 2009

Dear Ms. Pelz:

Enclosed are the annual Topographic Survey and Disposal Capacity Report for 2009 as specified in Specific Condition Part C.13.c. According to the report, Phase I of the Central County Solid Waste Disposal Complex had a remaining capacity of approximately 15 months in December 2009.

If you have any questions or concerns, please contact me at (941)861-1589 or lerose@scgov.net.

Sincerely,

Lois E. Rose
Manager, Solid Waste

Enclosure

4440201

3899

NAH

April 6, 2010

Ms. Lois Rose
Manager, Solid Waste Operations
Sarasota County
4000 Knights Trail Road
Nokomis, FL 34275

**Re: Remaining Capacity Report, Phase I Landfill Cell
Central County Solid Waste Disposal Complex
Sarasota County, Florida
FDEP Permit #130542-007-SO/01, Dated 11/18/2008**

Dear Lois:

As requested, HDR Engineering, Inc. (HDR) provides herein the Remaining Capacity Report for the Phase I, Class I landfill cell at the Central County Solid Waste Disposal Complex (CCSWDC), Sarasota County, Florida. The Capacity Report is required to be submitted to the Florida Department of Environmental Protection-Southwest District (FDEP) no later than April 15th, 2010, per the site's Operations Permit, Specific Condition, PART C, Paragraph 13c.

REMAINING SITE LIFE – PHASE I LANDFILL CELL

Objective: Calculate the remaining airspace for the Phase I, Class I landfill cell at the CCSWDC.

Knowns: Provided by County:

- December 21, 2009 topographic survey, prepared by Kucera International, Inc., and provided to the County by Veolia Environmental, Inc.
- Waste tonnages placed in the Phase I landfill during June 2009 through December 2009 (see Table 1).

Assumptions:

- Waste compaction density is based on Veolia's contractual density requirement of 1,428 lbs./cy.
- Waste placed in the Phase I cell based on the 2009 average monthly waste tonnages.

Therefore,

- Remaining Gross Airspace based on computer modeling (see attached Sheet 1) = 833,594 cy
- Final Cover Soil Volume = 349,639 cy
- Daily Cover Soil Volume = 24,198 cy (see attached calculations)


Hence,

$$\begin{aligned}\text{Net Remaining Airspace} &= \text{Gross Airspace less Cover Soils} \\ &= 833,594 \text{ cy} - 349,639 \text{ cy} - 24,198 \text{ cy} \\ &= 459,757 \text{ cy}\end{aligned}$$

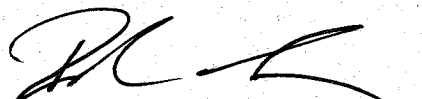
Given the Net Remaining Airspace volume of 459,757 cy and a projected average monthly waste flow of 29,266 cy, the remaining site life for the Phase I, Class I landfill cell is approximately 15 months as shown in the attached Table 2.

Based on HDR's review of the December 2009 topographic survey, the side slopes do not exceed the permitted maximum slope of 3H:1V, the top elevation does not exceed the permitted design elevation of 121', and other design features are in accordance with the previously FDEP approved Phase I Operational Sequence Drawings submitted to the FDEP in December 2007.

Sincerely,
HDR ENGINEERING, INC.


Jason Timmons, PE
Project Manager

Attachments


Richard A. Siemering
Solid Waste Section Manager



ONE COMPANY
Many Solutions®

Project: SARASOTA PHASE 1
CCSWDC

Computed: RS

Date: 4/6/10

Subject: SITE LIFE 12/09

Checked: JT

Date: 4/6/10

Task:

Page: 1

of: 1

Job #:

No:

- CALCULATE REMAINING AIRSPACE BASED ON
12/09 SURVEY AND FINAL COVER GRADES

- GROSS REMAINING AIRSPACE FROM CAD

GRID METHOD = 832,885 cy
COMPOSITE METHOD = 834,303 cy

AVERAGE = 833,594 cy

- FINAL COVER SOIL VOLUME

- FINAL INITIAL COVER = 0.5'
- FINAL INTERMEDIATE COVER = 1.0'
- FINAL COVER SOIL = 1.5'
- VEGETATIVE SOIL LAYER = 0.5'

- FINAL COVER THICKNESS = 3.5'

- FINAL COVER 3D
SURFACE AREA = 2,697,213 sf

- FINAL COVER VOLUME

$$= [(3.5')(2,697,213)] / 27 = 349,639 \text{ cy}$$



ONE COMPANY
Many Solutions®

Project: SARASOTA PHASE 1
CCSKIDC

Subject: SITE LIFE 12/09

Task:

Job #:

Computed: RS Date: 4/6/10

Checked: JT Date: 4/6/10

Page: 1 of: 2

No:

• ADJUSTED AIRSPACE

$$= 833,594 \text{ cy} - 349,639 \text{ cy} = 483,955 \text{ cy}$$

LESS 5% FOR COVER SOILS (-) 24,198 cy

• NET REMAINING AIRSPACE AS OF
DECEMBER 2009

$$= 483,955 \text{ cy} - 24,198 \text{ cy} = \underline{\underline{459,757 \text{ cy}}}$$

• 2009 AVERAGE MONTHLY TONNAGE

$$= 20,895.95 \text{ TONS}$$

$$= [(20,895.95)(2,000)] / 1,428 \text{ lbs/cy}$$

$$= 29,266 \text{ cy/month (AVERAGE)}$$

TABLE 1. WASTE TONNAGES - JUNE 1, 2009 THROUGH DECEMBER 31, 2009
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX
SARASOTA COUNTY, FLORIDA

| TBL ENTRY | WASTE TYPE TO LANDFILL | 2009 | | | | | | |
|--------------|---------------------------|------------------|------------------|------------------|---------------------|-------------------|--------------------|--------------------|
| | | JUNE (TONS) | JULY (TONS) | AUGUST (TONS) | SEPTEMBER (TONS) | OCTOBER (TONS) | NOVEMBER (TONS) | DECEMBER (TONS) |
| 10 | Mixed Garbage | 21,297.25 | 21,026.73 | 19,608.03 | 19,958.48 | 19,817.28 | 20,236.09 | 22,887.82 |
| 30 | Friable Asbestos | 78.48 | 3.50 | 0.00 | 0.00 | 0.00 | 0.15 | 0.00 |
| 35 | Non-Friable Asbestos | 0.41 | 19.84 | 6.10 | 0.74 | 1.79 | 12.88 | 16.78 |
| 40 | Sludge | 91.00 | 197.60 | 34.79 | 66.84 | 86.26 | 13.20 | 20.07 |
| 200 | Yard Waste To Landfill | 35.67 | 25.44 | 32.35 | 46.41 | 56.51 | 50.33 | 49.78 |
| 210 | Canker Yard Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 220 | Bags From Yard Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300 | Disaster Mixed Garbage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 410 | Tires - Shredded | 42.71 | 57.44 | 84.91 | 69.01 | 77.33 | 63.98 | 89.56 |
| 450 | Tires - Big Landfilled | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 800 | Residue | 0.00 | 2.72 | 1.53 | 1.57 | 0.00 | 2.26 | 0.00 |
| | | | | | | | | |
| | TOTAL | 21,545.52 | 21,333.27 | 19,767.71 | 20,143.05 | 20,039.17 | 20,378.89 | 23,064.01 |

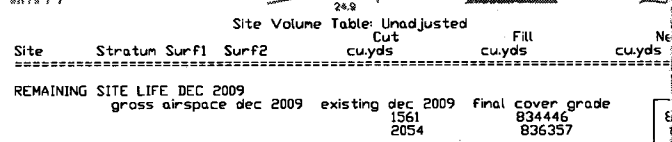
Monthly Average from June 2009 through December 2009 = 20,895.95 tons

**TABLE 2. ESTIMATED REMAINING AIRSPACE AND SITE LIFE
PHASE I LANDFILL
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX
SARASOTA COUNTY, FLORIDA**

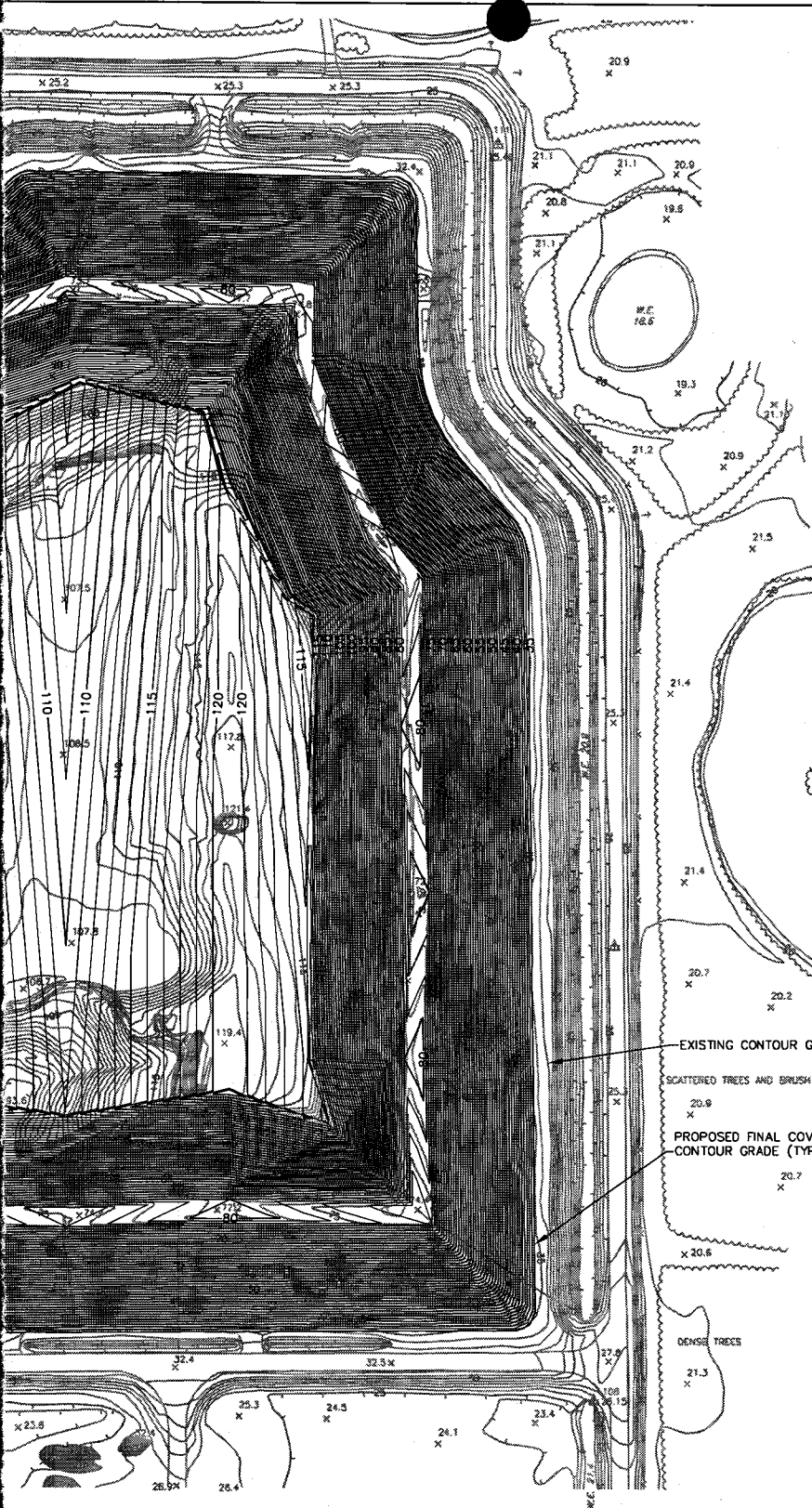
| MONTH/YEAR | MONTHLY WASTE LANDFILLED (CY) | REMAINING NET AIRSPACE (CY) |
|---|-------------------------------------|-----------------------------------|
| NET REMAINING NET AIRSPACE AS OF DECEMBER 2009 | | |
| | | 459,757 |
| 2009 | | |
| December | 10,768 | 448,989 |
| 2010 | | |
| January | 29,266 | 419,723 |
| February | 29,266 | 390,457 |
| March | 29,266 | 361,191 |
| April | 29,266 | 331,925 |
| May | 29,266 | 302,659 |
| June | 29,266 | 273,393 |
| July | 29,266 | 244,127 |
| August | 29,266 | 214,861 |
| September | 29,266 | 185,595 |
| October | 29,266 | 156,329 |
| November | 29,266 | 127,063 |
| December | 29,266 | 97,797 |
| 2011 | | |
| January | 29,266 | 68,531 |
| February | 29,266 | 39,265 |
| March | 29,266 | 9,999 |
| April | 29,266 | -19,267 |

NOTES:

1. Monthly waste landfilled based on 2009 monthly average tonnages.
2. Assumes contract waste compaction density of 1,428 lbs./cy
3. December waste tonnage pro-rated from December 21, 2009, through December 31, 2009



| | | | | |
|-------|------|-------------|-----------------|--------------|
| | | | PROJECT MANAGER | R. SIEMERING |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| ISSUE | DATE | DESCRIPTION | PROJECT NUMBER | |



NOT TO SCALE

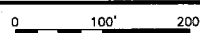
NOTES:

1. EXISTING TOPOGRAPHIC SURVEY PERFORMED BY KUCERA INTERNATIONAL, INC. ON 12/21/2009 AND PROVIDED BY VEOLIA ENVIRONMENTAL, INC.
2. FINAL COVER GRADES BASED ON FDEP PHASE I OPERATIONS FILL SEQUENCE DRAWINGS SUBMITTED TO FDEP IN DECEMBER 2007.

Method
 =====
 32885 (F) Grid
 334303 (F) Composite

PHASE I
 CCSWDC
 SARASOTA COUNTY

REMAINING SITE LIFE
 CALCULATIONS
 AS OF
 DECEMBER 2009



| | |
|----------|--------------|
| FILENAME | |
| SCALE | NOT TO SCALE |

| | |
|-------|---|
| SHEET | 1 |
|-------|---|

88444
CL I



SARASOTA COUNTY

"Dedicated to Quality Service"

October 25, 2007

Susan Pelz, PE
Florida Dept of Environmental Protection
Southwest District Office
13051 N. Telcom Parkway
Temple Terrace, FL 33627-0926

Re: Central County Solid Waste Disposal Complex
Permit No. 130542-002-SO/01

Dear Ms. Pelz:

Enclosed are the Topographic Survey and remaining capacity calculations as required by Special Conditions D.2.e.

Should you have any questions, please contact me at (941) 861-1571.

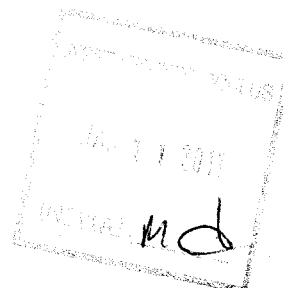
Sincerely,

Frank Coggins
Manager, Solid Waste Operations

Dept. Of Environmental Protection

OCT 29 2007

Southwest District





a

February 02, 2007

Mr. Nick Marotta
Veolia ES Solid Waste, Inc.
4000 Knights Trail Road
Nokomis, Florida 34275
(941) 486-0085

Re: Volumetric Report
Sarasota County Landfill

Dear Mr. Marotta:

Below are the volumes that LandAir Mapping has computed. The volumetric calculations were derived from a base grade supplied by Waste Management dated 1998, and aerial photography taken December 20, 2006.

The volumes are as follows:

The fill volume of the area is 3,967,074.4 yds³.

The fill volume of the temporary berms and piles is 6,465.2 yds³.

The net fill volume of the area is 3,960,609.2 yds³.

Dept. Of Environmental Protection

The fill volume of the soil stockpile area is 29,415.4 yds³.

OCT 26 2007

SOUTHWEST FLORIDA

Sincerely,

A handwritten signature in black ink that reads "Major Wilkerson". The signature is written in a cursive, flowing style.

Major Wilkerson

FEB 20 2007