

Department of Environmental Protection

Division of Air Resource Management

Winfield

APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for an air construction permit:

- For any required purpose at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air operation permit;
- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment new source review, or maximum achievable control technology (MACT);
- To assume a restriction on the potential emissions of one or more pollutants to escape a requirement such as PSD review, nonattainment new source review, MACT, or Title V; or
- To establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit – Use this form to apply for:

- An initial federally enforceable state air operation permit (FESOP); or
- An initial, revised, or renewal Title V air operation permit.

To ensure accuracy, please see form instructions.

Identification of Facility

1. Facility Owner/Company Name: Columbia County Board Of County Commissioners	
2. Site Name: Solid Waste Facility - Landfill	
3. Facility Identification Number: NA	
4. Facility Location... Street Address or Other Locator: 1347 NW Oossterhoudt Lane City: Lake City County: Columbia Zip Code: 32055	
5. Relocatable Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Existing Title V Permitted Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Application Contact

1. Application Contact Name: Kevin Kirby, Public Works Director	
2. Application Contact Mailing Address... Organization/Firm: Columbia County Commission Street Address: P O Box 969 City: Lake City State: FL Zip Code: 32056 ⁵	
3. Application Contact Telephone Numbers... Telephone: (386) 719 - 7565 ext. Fax: () -	
4. Application Contact E-mail Address: Kevin_Kirby@columbiacountyfla.com	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	3. PSD Number (if applicable):
2. Project Number(s):	4. Siting Number (if applicable):

0230047-004-AV
AB215

APPLICATION INFORMATION

Purpose of Application

This application for air permit is being submitted to obtain: (Check one)

Air Construction Permit

- Air construction permit.
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL).
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.

Air Operation Permit

- Initial Title V air operation permit.
- Title V air operation permit revision.
- Title V air operation permit renewal.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit (Concurrent Processing)

- Air construction permit and Title V permit revision, incorporating the proposed project.
- Air construction permit and Title V permit renewal, incorporating the proposed project.

Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:

- I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

Application Comment

This application is for an initial Title V permit for the existing Columbia County Landfill site, which includes both the Closed Central Landfill and the active Winfield landfill.

APPLICATION INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee
NA	Columbia County Closed Central Landfill	AV	NA
NA	Columbia County active Winfield Landfill	AV	NA

Application Processing Fee

Check one: Attached - Amount: \$ _____ Not Applicable

APPLICATION INFORMATION

Owner/Authorized Representative Statement

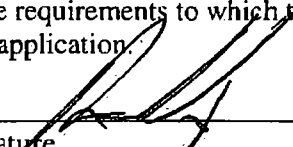
Complete if applying for an air construction permit or an initial FESOP.

1. Owner/Authorized Representative Name :
2. Owner/Authorized Representative Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:
3. Owner/Authorized Representative Telephone Numbers... Telephone: () - ext. Fax: () -
4. Owner/Authorized Representative E-mail Address:
5. Owner/Authorized Representative Statement: <i>I, the undersigned, am the owner or authorized representative of the corporation, partnership, or other legal entity submitting this air permit application. To the best of my knowledge, the statements made in this application are true, accurate and complete, and any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department.</i> _____ Signature _____ Date

APPLICATION INFORMATION

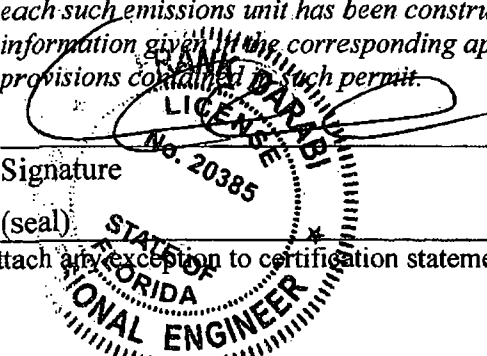
Application Responsible Official Certification

Complete if applying for an initial, revised, or renewal Title V air operation permit or concurrent processing of an air construction permit and revised or renewal Title V air operation permit. If there are multiple responsible officials, the "application responsible official" need not be the "primary responsible official."

1. Application Responsible Official Name: Kevin Kirby, Public Works Director
2. Application Responsible Official Qualification (Check one or more of the following options, as applicable): <input type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input checked="" type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source or CAIR source.
3. Application Responsible Official Mailing Address... Organization/Firm: Columbia County Board Of County Commissioners Street Address: P.O. Box 969 City: Lake City State: FL Zip Code: 32055
4. Application Responsible Official Telephone Numbers... Telephone: (386) 719 - 7565 ext. Fax: () -
5. Application Responsible Official E-mail Address: Kevin_Kirby@columbiacountyfla.com
Application Responsible Official Certification: <p>I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.</p> <p>Signature:  Date: <u>03-13-10</u></p>

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: Frank Darabi, P.E. Registration Number: 20385
2. Professional Engineer Mailing Address... Organization/Firm: Darabi and Associates, Inc. Street Address: 4140 NW 37th Place, Suite A City: Gainesville State: FL Zip Code: 32606
3. Professional Engineer Telephone Numbers... Telephone: (352) 376-6533 ext. Fax: (352) 692-5390
4. Professional Engineer E-mail Address: fdarabi@darabiassociates.com
5. Professional Engineer Statement: <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i> <i>(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and</i> <i>(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.</i> <i>(3) If the purpose of this application is to obtain a Title V air operation permit (check here <input checked="" type="checkbox"/>, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.</i> <i>(4) If the purpose of this application is to obtain an air construction permit (check here <input type="checkbox"/>, if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here <input type="checkbox"/>, if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.</i> <i>(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here <input type="checkbox"/>, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.</i> Signature _____ Date <u>9-17-13</u> (seal) 

* Attach any exception to certification statement.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone 17 East (km) 336.1 North (km) 3348.4		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) 30°15'23" N Longitude (DD/MM/SS) 82°42'14" W	
3. Governmental Facility Code: 3	4. Facility Status Code: A	5. Facility Major Group SIC Code: 49	6. Facility SIC(s): 4953
7. Facility Comment : Existing Municipal Solid Waste Landfill			

Facility Contact

1. Facility Contact Name: Columbia County Board Of County Commissioners
2. Facility Contact Mailing Address... Organization/Firm: Columbia County Board Of County Commissioners Street Address: P.O. Box 969 City: Lake City State: FL Zip Code: 32055
3. Facility Contact Telephone Numbers: Telephone: (386) 719 - 7565 ext. Fax: () -
4. Facility Contact E-mail Address: Kevin_Kirby@columbiacountyfla.com

Facility Primary Responsible Official

Complete if an "application responsible official" is identified in Section I that is not the facility "primary responsible official."

1. Facility Primary Responsible Official Name:
2. Facility Primary Responsible Official Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:
3. Facility Primary Responsible Official Telephone Numbers... Telephone: () - ext. Fax: () -
4. Facility Primary Responsible Official E-mail Address:

Facility Regulatory Classifications

Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a “major source” and a “synthetic minor source.”

1. <input type="checkbox"/> Small Business Stationary Source	<input type="checkbox"/> Unknown
2. <input type="checkbox"/> Synthetic Non-Title V Source	
3. <input checked="" type="checkbox"/> Title V Source	
4. <input type="checkbox"/> Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. <input type="checkbox"/> Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. <input type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)	
7. <input type="checkbox"/> Synthetic Minor Source of HAPs	
8. <input type="checkbox"/> One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. <input type="checkbox"/> One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. <input type="checkbox"/> One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. <input checked="" type="checkbox"/> Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12. Facility Regulatory Classifications Comment: Existing facility; Title V source.	

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
CO	B	N
PB	B	N
NOX	B	N
PM	B	N
PM10	B	N
PM2.5	B	N
SO2	B	N
VOC	B	N
HAPS	B	N
H2S	B	N
H114	B	N
NMOC	B	N
H009	B	N
H017	B	N
H032	B	N
H033	B	N
H034	B	N
H041	B	N
H043	B	N

H061	B	N
H085	B	N
H087	B	N
H088	B	N
H089	B	N
H094	B	N
H104	B	N
H118	B	N
H119	B	N
H123	B	N
H128	B	N
H156	B	N
H166	B	N
H167	B	N
H169	B	N
H176	B	N
H184	B	N
H185	B	N
H186	B	N

B. EMISSIONS CAPS

Facility-Wide or Multi-Unit Emissions Caps

1. Pollutant Subject to Emissions Cap	2. Facility-Wide Cap [Y or N]? (all units)	3. Emissions Unit ID's Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap
NA					

7. Facility-Wide or Multi-Unit Emissions Cap Comment:

C. FACILITY ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: See Appendix <input type="checkbox"/> Previously Submitted, Date: _____
2.	Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: See Appendix <input type="checkbox"/> Previously Submitted, Date: _____
3.	Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: See Appendix <input type="checkbox"/> Previously Submitted, Date: _____

Additional Requirements for Air Construction Permit Applications

NA

1.	Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (existing permitted facility)
2.	Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL): <input type="checkbox"/> Attached, Document ID: _____
3.	Rule Applicability Analysis: <input type="checkbox"/> Attached, Document ID: _____
4.	List of Exempt Emissions Units: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (no exempt units at facility)
5.	Fugitive Emissions Identification: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
6.	Air Quality Analysis (Rule 62-212.400(7), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
7.	Source Impact Analysis (Rule 62-212.400(5), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
8.	Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
9.	Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
10.	Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications

1. List of Exempt Emissions Units: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (no exempt units at facility)
--

Additional Requirements for Title V Air Operation Permit Applications

1. List of Insignificant Activities: (Required for initial/renewal applications only) <input checked="" type="checkbox"/> Attached, Document ID: See Appendix <input type="checkbox"/> Not Applicable (revision application)
2. Identification of Applicable Requirements: (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: See Appendix <input type="checkbox"/> Not Applicable (revision application with no change in applicable requirements)
3. Compliance Report and Plan: (Required for all initial/revision/renewal applications) <input type="checkbox"/> Attached, Document ID: NA Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.
4. List of Equipment/Activities Regulated under Title VI: (If applicable, required for initial/renewal applications only) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Equipment/Activities Onsite but Not Required to be Individually Listed <input checked="" type="checkbox"/> Not Applicable
5. Verification of Risk Management Plan Submission to EPA: (If applicable, required for initial/renewal applications only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
6. Requested Changes to Current Title V Air Operation Permit: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Facilities Subject to Acid Rain, CAIR, or Hg Budget Program

1. Acid Rain Program Forms:

Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)):

Attached, Document ID: _____ Previously Submitted, Date: _____

Not Applicable (not an Acid Rain source)

Phase II NO_x Averaging Plan (DEP Form No. 62-210.900(1)(a)1.):

Attached, Document ID: _____ Previously Submitted, Date: _____

Not Applicable

New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.):

Attached, Document ID: _____ Previously Submitted, Date: _____

Not Applicable

2. CAIR Part (DEP Form No. 62-210.900(1)(b)):

Attached, Document ID: _____ Previously Submitted, Date: _____

Not Applicable (not a CAIR source)

Other Information Regarding This Facility

1. Other Facility Information:

Included

Attachment

Additional Requirements Comment

EMISSIONS UNIT INFORMATION

Section [1] of [2] Central Landfill

III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for an initial, revised or renewal Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for an air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application - Where this application is used to apply for both an air construction permit and a revised or renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes, and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

EMISSIONS UNIT INFORMATION

Section [1] of [2] Central Landfill

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.) <input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. <input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.
--

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one) <input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). <input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which have at least one definable emission point (stack or vent) but may also produce fugitive emissions. <input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.			
2. Description of Emissions Unit Addressed in this Section: Columbia County Central Landfill			
3. Emissions Unit Identification Number: Not Known			
4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date: 1974	7. Emissions Unit Major Group SIC Code: 49
8. Federal Program Applicability: (Check all that apply) <input type="checkbox"/> Acid Rain Unit <input type="checkbox"/> CAIR Unit			
9. Package Unit: Manufacturer:		Model Number:	
10. Generator Nameplate Rating: MW			
11. Emissions Unit Comment:			

EMISSIONS UNIT INFORMATION

Section [1] of [2] Central Landfill

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:
2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:
2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:
2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:
2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [1] of [2] Central Landfill

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:	
2. Maximum Production Rate:	
3. Maximum Heat Input Rate: million Btu/hr	
4. Maximum Incineration Rate: pounds/hr tons/day	
5. Requested Maximum Operating Schedule: hours/day weeks/year	days/week 8760 hours/year
6. Operating Capacity/Schedule Comment:	

EMISSIONS UNIT INFORMATION
Section [1] of [2] Central Landfill

C. EMISSION POINT (STACK/VENT) INFORMATION
(Optional for unregulated emissions units.)

Emission Point Description and Type **NA**

1. Identification of Point on Plot Plan or Flow Diagram:		2. Emission Point Type Code:	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code:	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment: Fugitive emissions from the landfill.			

EMISSIONS UNIT INFORMATION

Section [1] of [2] Central Landfill

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Landfill Gas		
2. Source Classification Code (SCC): 50200602		3. SCC Units: Acre-Years Landfill Existing
4. Maximum Hourly Rate: NA	5. Maximum Annual Rate: NA	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Fugitive emissions from landfill.		

Segment Description and Rate: Segment __ of __

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [1] of [2] Central Landfill

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
NMOC			NS
Total HAPS			NS

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
 (Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: NMOC – Municipal Solid Waste Landfill Emissions (Measured as Non-methane Organic Compounds)		2. Total Percent Efficiency of Control: 0	
3. Potential Emissions: lb/hour 46.85 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Variable, see attached table. Reference: AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: See attached table.			
11. Potential, Fugitive, and Actual Emissions Comment: Individual VOCs are identified in the attached table.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __ **NA**

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: HAPS - Total Hazardous Air Pollutants	2. Total Percent Efficiency of Control:
3. Potential Emissions: lb/hour 1.43 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Variable, see attached table. Reference: AP-42	7. Emissions Method Code: 3
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years
10. Calculation of Emissions: See attached table.	
11. Potential, Fugitive, and Actual Emissions Comment: Individual HAPs are identified in the attached table.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __ **NA**

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [1] of [2] Central Landfill

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation __ of ___ NA

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

Visible Emissions Limitation: Visible Emissions Limitation __ of ___

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION
Section [1] of [2] Central Landfill

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___ **NA**

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [1] of [2] Central Landfill

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>See Appendix</u> <input type="checkbox"/> Previously Submitted, Date _____
2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____
3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records: <input type="checkbox"/> Attached, Document ID: See Appendix Test Date(s)/Pollutant(s) Tested: _____ _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute: <input type="checkbox"/> Attached, Document ID: See Appendix <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [1] of [2] Central Landfill

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

NA

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)):

Attached, Document ID: _____ Not Applicable

2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.):

Attached, Document ID: _____ Not Applicable

3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)

Attached, Document ID: _____ Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements:

Attached, Document ID: **See Appendix**

2. Compliance Assurance Monitoring:

Attached, Document ID: _____ Not Applicable

3. Alternative Methods of Operation:

Attached, Document ID: _____ Not Applicable

4. Alternative Modes of Operation (Emissions Trading):

Attached, Document ID: _____ Not Applicable

Additional Requirements Comment

EMISSIONS UNIT INFORMATION

Section [2] of [2] Winfield Landfill

III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for an initial, revised or renewal Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an “unregulated emissions unit” does not apply. If this is an application for an air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application – Where this application is used to apply for both an air construction permit and a revised or renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes, and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

EMISSIONS UNIT INFORMATION

Section [2] of [2] Winfield Landfill

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)
<input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
<input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)			
<input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).			
<input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which have at least one definable emission point (stack or vent) but may also produce fugitive emissions.			
<input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.			
2. Description of Emissions Unit Addressed in this Section: Columbia County Winfield Landfill			
3. Emissions Unit Identification Number: Not Known			
4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date: 1994	7. Emissions Unit Major Group SIC Code: 49
8. Federal Program Applicability: (Check all that apply)			
<input type="checkbox"/> Acid Rain Unit			
<input type="checkbox"/> CAIR Unit			
9. Package Unit: Manufacturer:		Model Number:	
10. Generator Nameplate Rating: MW			
11. Emissions Unit Comment:			

EMISSIONS UNIT INFORMATION

Section [2] of [2] Winfield Landfill

Emissions Unit Control Equipment/Method: Control ___ of ___

NA

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [2] of [2] Winfield Landfill

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:			
2. Maximum Production Rate:			
3. Maximum Heat Input Rate:	million Btu/hr		
4. Maximum Incineration Rate:	pounds/hr		
	tons/day		
5. Requested Maximum Operating Schedule:			
	hours/day	days/week	
	weeks/year	8760 hours/year	
6. Operating Capacity/Schedule Comment:			

EMISSIONS UNIT INFORMATION

Section [2] of [2] Winfield Landfill

C. EMISSION POINT (STACK/VENT) INFORMATION**(Optional for unregulated emissions units.)****Emission Point Description and Type**

NA

1. Identification of Point on Plot Plan or Flow Diagram:		2. Emission Point Type Code:	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code:	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment: Fugitive emissions from the landfill.			

EMISSIONS UNIT INFORMATION
Section [2] of [2] Winfield Landfill

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Landfill Gas		
2. Source Classification Code (SCC): 50200602		3. SCC Units: Acre-Years Landfill Existing
4. Maximum Hourly Rate: NA	5. Maximum Annual Rate: NA	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Fugitive emissions from landfill.		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

EMISSIONS UNIT INFORMATION

Section [2] of [2] Winfield Landfill

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
NMOC			NS
HAPS			NS

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
 (Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: NMOC – Municipal Solid Waste Landfill Emissions (Measured as Non-methane Organic Compounds)		2. Total Percent Efficiency of Control: <i>~349 mg/yr NMOC</i>	
3. Potential Emissions: lb/hour 384.64 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Variable, see attached table. Reference: AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: See attached table.			
11. Potential, Fugitive, and Actual Emissions Comment: Individual VOCs are identified in the attached table.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __ **NA**

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: HAPS - Total Hazardous Air Pollutants		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour 11.74 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Variable, see attached table. Reference: AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: See attached table.			
11. Potential, Fugitive, and Actual Emissions Comment: Individual HAPs are identified in the attached table.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions __ of __ **NA**

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions __ of __

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [2] of [2] Winfield Landfill

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation ___ of ___ **NA**

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

Visible Emissions Limitation: Visible Emissions Limitation ___ of ___

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [2] of [2] Winfield Landfill

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___ **NA**

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION
Section [2] of [2] Winfield Landfill

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>See Appendix</u> <input type="checkbox"/> Previously Submitted, Date _____
2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____
3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records: <input type="checkbox"/> Attached, Document ID: See Appendix Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute: <input type="checkbox"/> Attached, Document ID: See Appendix <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [2] of [2] Winfield Landfill

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications NA

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements: <input checked="" type="checkbox"/> Attached, Document ID: See Appendix
2. Compliance Assurance Monitoring: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements Comment

--

APPENDICES

- 1. Air Emissions Calculations**
- 2. Facility Plot Plan**
- 3. Process Flow Diagram**
- 4. Precautions to Prevent Emissions of Unconfined PM**
- 5. List of Insignificant Activities**
- 6. Identification of Applicable Requirements**

ATTACHMENT A
EMISSIONS CALCULATIONS

Title V Permit Renewal 2012

Leon County Solid Waste Management Facility, Leon County, Florida

The following table summarizes and details the AP-42 Method (Fifth Edition, Supplement E, Section 2.4.4.2 -11/98) that was used in assessing the emissions from the regulated emission unit that is also reported in FDEP Form No. 62-210.900(5). Landfill emissions are based on the LandGEM for year 2012. It should be noted that generated landfill gas decrease from 2012 to 2017, and therefore year 2012 represents conservative calculations.

TABLE A -1 GENERAL PROCESS INFORMATION

<i>Required Information</i>	<i>Provided Information</i>	<i>Source</i>
A. Total landfill gas generated, 2012 (ft ³)	505,213,056	<i>Estimated LFG Generation for 2012, From LandGEM</i>
Total landfill gas generated, 2012 (m ³)	14,303,946	<i>Unit Conversion</i>
B. Methane percentage of LFG	55.00	<i>Based on AP-42 (1998)</i>
C. Collection system efficiency (percent)	39.75	<i>Based on 2011 AOR (Calculated with LandGEM & Flare Data)</i>
D. Methane to flare (m ³)	3,127,200	<i>(2012 LFG Generation * Percent Methane * Collection Efficiency)</i>
Methane to flare (ft ³)	110,452,204	
E. Flare efficiency (percent)	98	<i>Flare Efficiency as Required</i>
F. Estimated total methane generated (ft ³)	277,867,181	<i>2012 LFG Generation * Percent Methane</i>
Estimated total methane generated (m ³)	7,866,420	
G. Estimated uncollected landfill gas (million ft ³)	304.4	<i>Estimated 2012 LFG generation * (1 - Collection Efficiency)</i>



Title V Permit Renewal 2012
Leon County Solid Waste Management Facility, Leon County, Florida

TABLE A-2 SUMMARY OF POTENTIAL EMISSIONS

Pollutant	FDEP ID	AP-42	molecular weight	Total Pollutant Generated				Flare Emissions		Uncollected Emissions	
	column 1	column 2	column 3	column 4	column 5	column 6	column 7	column 8	column 9	column 10	column 11
		ppmv	g/mol	m3/yr	kg/yr	lb/day	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Ethyl mercaptan (ethanethiol) - VOC	F027	2.3	62.13	32.90	83.60	0.5039	0.0920	0.0002	0.0007	0.0126	0.0554
Acrylonitrile - HAP/VOC	H009	6.33	53.06	90.54	196.49	1.1843	0.2161	0.0004	0.0017	0.0297	0.1302
Benzene - No or Unknown Co-disposal - HAP/VOC	H017	1.91	78.11	27.32	87.28	0.5261	0.0960	0.0002	0.0008	0.0132	0.0578
Carbon disulfide - HAP/VOC	H032	0.58	76.13	8.30	25.83	0.1557	0.0284	0.0001	0.0002	0.0039	0.0171
Carbon tetrachloride - HAP/VOC	H033	0.004	153.84	0.06	0.36	0.0022	0.0004	0.0000	0.0000	0.0001	0.0002
Carbonyl sulfide - HAP/VOC	H034	0.49	60.07	7.01	17.22	0.1038	0.0189	0.0000	0.0002	0.0026	0.0114
Chlorobenzene - HAP/VOC	H041	0.25	112.56	3.58	16.46	0.0992	0.0181	0.0000	0.0001	0.0025	0.0109
Chloroform - HAP/VOC	H043	0.03	119.39	0.43	2.10	0.0126	0.0023	0.0000	0.0000	0.0003	0.0014
Dichlorobenzene - (HAP for para isomer/VOC)	H061	0.21	147	3.00	18.06	0.1088	0.0199	0.0000	0.0002	0.0027	0.0120
Ethylbenzene - HAP/VOC	H085	4.61	106.16	65.94	286.30	1.7256	0.3149	0.0006	0.0025	0.0433	0.1897
Chloroethane (ethyl chloride) - HAP/VOC	H087	1.25	64.52	17.88	47.18	0.2844	0.0519	0.0001	0.0004	0.0071	0.0313
Ethylene dibromide - HAP/VOC	H088	0.001	187.88	0.01	0.11	0.0007	0.0001	0.0000	0.0000	0.0000	0.0001
1,2-Dichloroethane (ethylene dichloride) - HAP/VOC	H089	0.41	98.96	5.86	24.50	0.1477	0.0270	0.0000	0.0002	0.0037	0.0162
1,1-Dichloroethane (ethylidene dichloride) - HAP/VOC	H094	2.35	98.97	33.61	140.44	0.8465	0.1545	0.0003	0.0012	0.0213	0.0931
Hexane - HAP/VOC	H104	6.57	86.18	93.98	341.90	2.0608	0.3761	0.0007	0.0030	0.0517	0.2266
Mercury (total) - HAP	H114	0.000292	200.61	0.00	0.04	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
Chloromethane - VOC	H118	1.21	50.49	17.31	36.89	0.2224	0.0406	0.0001	0.0003	0.0056	0.0244
1,1,1-Trichloroethane (methyl chloroform) - HAP	H119	0.48	133.41	6.87	38.67	0.2331	0.0425	0.0001	0.0003	0.0059	0.0256
Methyl isobutyl ketone - HAP/VOC	H123	1.87	100.16	26.75	113.10	0.6817	0.1244	0.0002	0.0010	0.0171	0.0750
Dichloromethane (methylene chloride) - HAP	H128	14.3	84.94	204.55	733.46	4.4209	0.8068	0.0015	0.0064	0.1110	0.4861
1,2-Dichloropropane (propylene dichloride) - HAP/VOC	H156	0.18	112.99	2.57	12.28	0.0740	0.0135	0.0000	0.0001	0.0019	0.0081
1,1,2,2-Tetrachloroethane - HAP/VOC	H166	1.11	167.85	15.88	112.51	0.6781	0.1238	0.0002	0.0010	0.0170	0.0746
Perchloroethylene (tetrachloroethylene) - HAP	H167	3.73	165.83	53.35	373.51	2.2513	0.4109	0.0007	0.0033	0.0565	0.2475
Toluene - No or Unknown Co-disposal - HAP/VOC	H169	39.3	92.13	562.15	2,186.37	13.1781	2.4050	0.0044	0.0191	0.3308	1.4490
Trichloroethylene (trichloroethene) - HAP/VOC	H176	2.82	131.4	40.34	223.76	1.3487	0.2461	0.0004	0.0020	0.0339	0.1483
Vinyl chloride - HAP/VOC	H184	7.34	62.5	104.99	277.02	1.6697	0.3047	0.0006	0.0024	0.0419	0.1836
1,1-Dichloroethene (vinylidene chloride) - HAP/VOC	H185	0.2	96.94	2.86	11.71	0.0706	0.0129	0.0000	0.0001	0.0018	0.0078
Xylenes - HAP/VOC	H186	12.1	106.16	173.08	775.67	4.6753	0.8532	0.0015	0.0068	0.1174	0.5141
Methyl mercaptan - VOC	T049	2.49	48.11	35.62	72.34	0.4360	0.0796	0.0001	0.0006	0.0109	0.0479
NMOC	NMOC	159	86.18	2,274.33	8,274.35	49.8728	9.1018	0.0165	0.0724	1.2520	5.4838
Hydrogen sulfide	H2S	35.5	34.08	507.79	730.56	4.4034	0.8036	0.0015	0.0064	0.1105	0.4842
PM-10 see note 2								0.2143	0.9388		
NO _x see note 3								0.5043	2.2090		
SO _x see note 4								0.5913	2.5901		
Carbon Monoxide see note 5								9.4565	41.4196		
Total HAPS see note 6				1,550.91	6,062.32	36.5400	6.6685	0.0121	0.0530	0.9173	4.0178
Total VOC see note 7				1,371.96	5,109.47	30.7968	5.6204	0.0102	0.0447	0.7731	3.3863
Hydrogen Chloride see note 8	H106	42	36.46					0.1018	0.4458		



Title V Permit Renewal 2012

Leon County Solid Waste Management Facility, Leon County, Florida

NOTES FROM TABLE A-2

Pollutant Notes

1. NMOC Calculation

Per the Tier II testing conducted May 1 through May 4, 2004, NMOC was determined as 159 ppmv as hexane.

2. PM-10 Calculation

Per Title V Permit, the emission factor from the flare is 17 lb/10⁶ dscf methane.

3. NO_x Calculation

Per Title V Permit, the emission factor from the flare is 40 lb/10⁶ dscf methane.

4. SO_x Calculation

Per Title V permit, the emission factor from the flare is 46.9 lb/10⁶ dscf methane.

5. CO Calculation

Per Title V Permit, the emission factor from the flare is 750 lb/10⁶ dscf methane.

6. Total HAP Derivation

The total HAP emissions were calculated by summing each HAP constituent.

7. VOC Calculation

The total VOC emissions were calculated by summing each VOC constituent.

8. Hydrogen Chloride Calculation

Per method described in 2.4.4.2 using 42.0 ppmv (the default concentration).

$$UM_p = \frac{2 * \text{Methane to Flare} * \text{Concentration (42 ppm)} * MW * 1 \text{ atm} * 2.205 \text{ lb/kg}}{10^6 * 0.00008205 * 1,000 \text{ g/kg} * 288.7 \text{ K} * 365 \text{ days/year}}$$

Column Notes

Columns 2&3

Values from AP-42 Tables 2.4-1 and 2.4-2 unless otherwise noted.

Column 4

Volumetric Emission Calculation AP-42 (1998), equation (3)

$$Q_p = 2 * Q_{CH_4} * C_p / 10^6$$

where Q_{CH_4} is the total amount of CH₄ generated by the landfill, m³/yr (G on Table A-1)

C_p is the concentration of pollutant P in the landfill gas, ppm

Column 5

Mass Emission Calculation AP-42 (1998), equation (4)

$$UM_p = Q_p * (\text{Molecular Weight} * 1 \text{ atm}) / [(8.205 * 10^{-5} \text{ m}^3\text{-atm/gmol-}^\circ\text{K})(1,000 \text{ g/kg})(273 + 15.7^\circ\text{K})]$$

assuming standard temperature of 15.7°C (60°F)

Columns 8 and 9

Collection efficiency is assumed to be 39.75% and flare combustion efficiency assumed to be 98%.

Columns 10 and 11 Landfill gas not collected through the flare is assumed to be emitted as fugitive (i.e., not collected).



ATTACHMENT B
LANDGEM 3.02 OUTPUT



Summary Report

Landfill Name or Identifier: Leon County Solid Waste Management Facility

Date: Wednesday, October 31, 2012

Description/Comments:

This LandGEM has been developed for the Title V Permit Renewal. Methane percentage is based on facility records for 2011 (from GHG reporting). Historical tonnage data (1977 through 2011) is also based on 2011 GHG report. NMOC concentration is based on Tier II testing conducted on-site on May 1 through May 4, 2004.

About LandGEM:

First-Order Decomposition Rate Equation:

$$Q_{CH_4} = \sum_{i=1}^n \sum_{j=0.1}^1 kL_o \left(\frac{M_i}{10} \right) e^{-kt_{ij}}$$

Where,

Q_{CH_4} = annual methane generation in the year of the calculation ($m^3/year$)

i = 1-year time increment

n = (year of the calculation) - (initial year of waste acceptance)

j = 0.1-year time increment

k = methane generation rate ($year^{-1}$)

L_o = potential methane generation capacity (m^3/Mg)

M_i = mass of waste accepted in the i^{th} year (Mg)

t_{ij} = age of the j^{th} section of waste mass M_i accepted in the i^{th} year (decimal years. e.g., 3.2 years)

LandGEM is based on a first-order decomposition rate equation for quantifying emissions from the decomposition of landfilled waste in municipal solid waste (MSW) landfills. The software provides a relatively simple approach to estimating landfill gas emissions. Model defaults are based on empirical data from U.S. landfills. Field test data can also be used in place of model defaults when available. Further guidance on EPA test methods, Clean Air Act (CAA) regulations, and other guidance regarding landfill gas emissions and control technology requirements can be found at <http://www.epa.gov/ttnatw01/landfill/landflpg.html>.

LandGEM is considered a screening tool — the better the input data, the better the estimates. Often, there are limitations with the available data regarding waste quantity and composition, variation in design and operating practices over time, and changes occurring over time that impact the emissions potential. Changes to landfill operation, such as operating under wet conditions through leachate recirculation or other liquid additions, will result in generating more gas at a faster rate. Defaults for estimating emissions for this type of operation are being developed to include in LandGEM along with defaults for conventional landfills (no leachate or liquid additions) for developing emission inventories and determining CAA applicability. Refer to the Web site identified above for future updates.

Input Review**LANDFILL CHARACTERISTICS**

Landfill Open Year	1977	
Landfill Closure Year (with 80-year limit)	2017	
Actual Closure Year (without limit)	2017	
Have Model Calculate Closure Year?	No	
Waste Design Capacity	4,684,206	<i>megagrams</i>

MODEL PARAMETERS

Methane Generation Rate, k	0.040	<i>year⁻¹</i>
Potential Methane Generation Capacity, \downarrow	100	<i>m³/Mg</i>
NMOC Concentration	159	<i>ppmv as hexane</i>
Methane Content	55	<i>% by volume</i>

GASES / POLLUTANTS SELECTED

Gas / Pollutant #1:	Total landfill gas
Gas / Pollutant #2:	Methane
Gas / Pollutant #3:	Carbon dioxide
Gas / Pollutant #4:	NMOC

WASTE ACCEPTANCE RATES

Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	(short tons/year)	(Mg)	(short tons)
1977	140,100	154,110	0	0
1978	140,200	154,220	140,100	154,110
1979	140,100	154,110	280,300	308,330
1980	140,100	154,110	420,400	462,440
1981	140,100	154,110	560,500	616,550
1982	140,100	154,110	700,600	770,660
1983	140,200	154,220	840,700	924,770
1984	140,000	154,000	980,900	1,078,990
1985	140,000	154,000	1,120,900	1,232,990
1986	140,000	154,000	1,260,900	1,386,990
1987	140,000	154,000	1,400,900	1,540,990
1988	141,000	155,100	1,540,900	1,694,990
1989	140,000	154,000	1,681,900	1,850,090
1990	140,000	154,000	1,821,900	2,004,090
1991	140,000	154,000	1,961,900	2,158,090
1992	140,000	154,000	2,101,900	2,312,090
1993	140,000	154,000	2,241,900	2,466,090
1994	140,000	154,000	2,381,900	2,620,090
1995	140,000	154,000	2,521,900	2,774,090
1996	140,000	154,000	2,661,900	2,928,090
1997	141,000	155,100	2,801,900	3,082,090
1998	140,000	154,000	2,942,900	3,237,190
1999	136,000	149,600	3,082,900	3,391,190
2000	155,000	170,500	3,218,900	3,540,790
2001	162,000	178,200	3,373,900	3,711,290
2002	58,000	63,800	3,535,900	3,889,490
2003	140,000	154,000	3,593,900	3,953,290
2004	27,000	29,700	3,733,900	4,107,290
2005	74,667	82,133	3,760,900	4,136,990
2006	67,454	74,199	3,835,567	4,219,123
2007	69,413	76,355	3,903,021	4,293,323
2008	57,198	62,918	3,972,434	4,369,678
2009	36,559	40,215	4,029,632	4,432,595
2010	28,424	31,266	4,066,191	4,472,810
2011	14,803	16,283	4,094,615	4,504,076
2012	32,500	35,750	4,109,418	4,520,359
2013	32,500	35,750	4,141,918	4,556,109
2014	32,500	35,750	4,174,418	4,591,859
2015	32,500	35,750	4,206,918	4,627,609
2016	32,500	35,750	4,239,418	4,663,359

WASTE ACCEPTANCE RATES (Continued)

Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	(short tons/year)	(Mg)	(short tons)
2017	32,500	35,750	4,271,918	4,699,109
2018	0	0	4,304,418	4,734,859
2019	0	0	4,304,418	4,734,859
2020	0	0	4,304,418	4,734,859
2021	0	0	4,304,418	4,734,859
2022	0	0	4,304,418	4,734,859
2023	0	0	4,304,418	4,734,859
2024	0	0	4,304,418	4,734,859
2025	0	0	4,304,418	4,734,859
2026	0	0	4,304,418	4,734,859
2027	0	0	4,304,418	4,734,859
2028	0	0	4,304,418	4,734,859
2029	0	0	4,304,418	4,734,859
2030	0	0	4,304,418	4,734,859
2031	0	0	4,304,418	4,734,859
2032	0	0	4,304,418	4,734,859
2033	0	0	4,304,418	4,734,859
2034	0	0	4,304,418	4,734,859
2035	0	0	4,304,418	4,734,859
2036	0	0	4,304,418	4,734,859
2037	0	0	4,304,418	4,734,859
2038	0	0	4,304,418	4,734,859
2039	0	0	4,304,418	4,734,859
2040	0	0	4,304,418	4,734,859
2041	0	0	4,304,418	4,734,859
2042	0	0	4,304,418	4,734,859
2043	0	0	4,304,418	4,734,859
2044	0	0	4,304,418	4,734,859
2045	0	0	4,304,418	4,734,859
2046	0	0	4,304,418	4,734,859
2047	0	0	4,304,418	4,734,859
2048	0	0	4,304,418	4,734,859
2049	0	0	4,304,418	4,734,859
2050	0	0	4,304,418	4,734,859
2051	0	0	4,304,418	4,734,859
2052	0	0	4,304,418	4,734,859
2053	0	0	4,304,418	4,734,859
2054	0	0	4,304,418	4,734,859
2055	0	0	4,304,418	4,734,859
2056	0	0	4,304,418	4,734,859

Pollutant Parameters

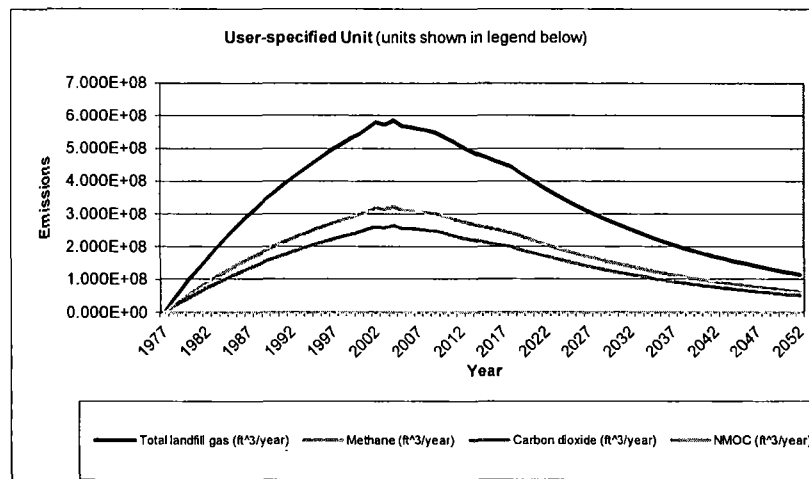
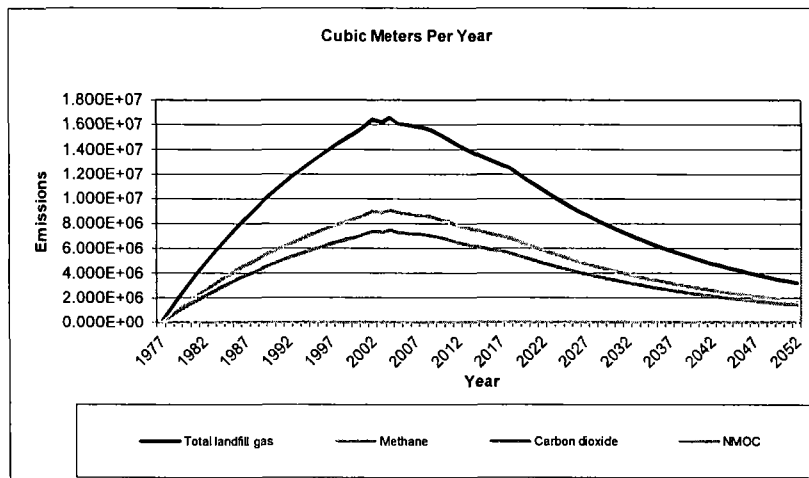
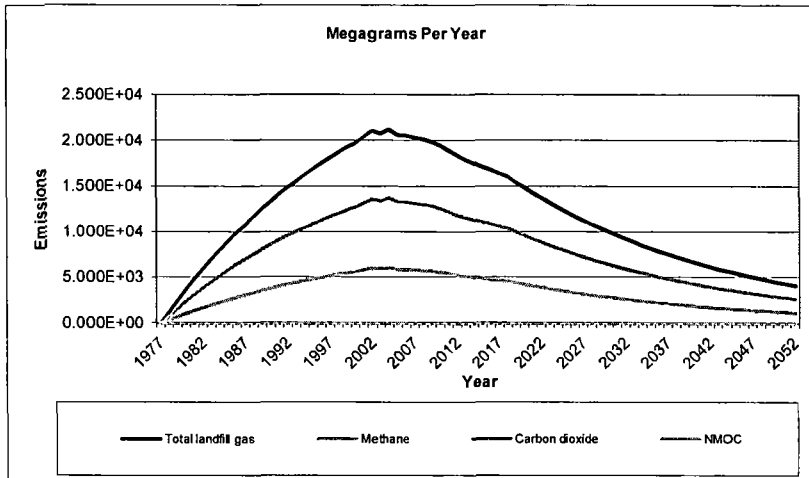
Gas / Pollutant Default Parameters:				User-specified Pollutant Parameters:	
	Compound	Concentration (ppmv)	Molecular Weight	Concentration (ppmv)	Molecular Weight
Gases	Total landfill gas		0.00		
	Methane		16.04		
	Carbon dioxide		44.01		
	NMOC	4.000	86.18		
Pollutants	1,1,1-Trichloroethane (methyl chloroform) - HAP	0.48	133.41		
	1,1,2,2- Tetrachloroethane - HAP/VOC	1.1	167.85		
	1,1-Dichloroethane (ethylidene dichloride) - HAP/VOC	2.4	98.97		
	1,1-Dichloroethene (vinylidene chloride) - HAP/VOC	0.20	96.94		
	1,2-Dichloroethane (ethylene dichloride) - HAP/VOC	0.41	98.96		
	1,2-Dichloropropane (propylene dichloride) - HAP/VOC	0.18	112.99		
	2-Propanol (isopropyl alcohol) - VOC	50	60.11		
	Acetone	7.0	58.08		
	Acrylonitrile - HAP/VOC	6.3	53.06		
	Benzene - No or Unknown Co-disposal - HAP/VOC	1.9	78.11		
	Benzene - Co-disposal - HAP/VOC	11	78.11		
	Bromodichloromethane - VOC	3.1	163.83		
	Butane - VOC	5.0	58.12		
	Carbon disulfide - HAP/VOC	0.58	76.13		
	Carbon monoxide	140	28.01		
	Carbon tetrachloride - HAP/VOC	4.0E-03	153.84		
	Carbonyl sulfide - HAP/VOC	0.49	60.07		
	Chlorobenzene - HAP/VOC	0.25	112.56		
	Chlorodifluoromethane	1.3	86.47		
	Chloroethane (ethyl chloride) - HAP/VOC	1.3	64.52		
	Chloroform - HAP/VOC	0.03	119.39		
	Chloromethane - VOC	1.2	50.49		
	Dichlorobenzene - (HAP for para isomer/VOC)	0.21	147		
	Dichlorodifluoromethane	16	120.91		
	Dichlorofluoromethane - VOC	2.6	102.92		
	Dichloromethane (methylene chloride) - HAP	14	84.94		
	Dimethyl sulfide (methyl sulfide) - VOC	7.8	62.13		
	Ethane	890	30.07		
	Ethanol - VOC	27	46.08		

Pollutant Parameters (Continued)

Gas / Pollutant Default Parameters:				User-specified Pollutant Parameters:	
	Compound	Concentration (ppmv)	Molecular Weight	Concentration (ppmv)	Molecular Weight
Pollutants	Ethyl mercaptan (ethanethiol) - VOC	2.3	62.13		
	Ethylbenzene - HAP/VOC	4.6	106.16		
	Ethylene dibromide - HAP/VOC	1.0E-03	187.88		
	Fluorotrichloromethane - VOC	0.76	137.38		
	Hexane - HAP/VOC	6.6	86.18		
	Hydrogen sulfide	36	34.08		
	Mercury (total) - HAP	2.9E-04	200.61		
	Methyl ethyl ketone - HAP/VOC	7.1	72.11		
	Methyl isobutyl ketone - HAP/VOC	1.9	100.16		
	Methyl mercaptan - VOC	2.5	48.11		
	Pentane - VOC	3.3	72.15		
	Perchloroethylene (tetrachloroethylene) - HAP	3.7	165.83		
	Propane - VOC	11	44.09		
	t-1,2-Dichloroethene - VOC	2.8	96.94		
	Toluene - No or Unknown Co-disposal - HAP/VOC	39	92.13		
	Toluene - Co-disposal - HAP/VOC	170	92.13		
	Trichloroethylene (trichloroethene) - HAP/VOC	2.8	131.40		
	Vinyl chloride - HAP/VOC	7.3	62.50		
	Xylenes - HAP/VOC	12	106.16		

--	--	--	--	--

Graphs



Results

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(ft ³ /year)	(Mg/year)	(m ³ /year)	(ft ³ /year)
1977	0	0	0	0	0	0
1978	1.285E+03	1.003E+06	3.542E+07	3.672E+02	5.504E+05	1.944E+07
1979	2.521E+03	1.967E+06	6.948E+07	7.203E+02	1.080E+06	3.813E+07
1980	3.707E+03	2.893E+06	1.022E+08	1.059E+03	1.588E+06	5.607E+07
1981	4.847E+03	3.783E+06	1.336E+08	1.385E+03	2.076E+06	7.331E+07
1982	5.942E+03	4.637E+06	1.638E+08	1.698E+03	2.545E+06	8.988E+07
1983	6.994E+03	5.459E+06	1.928E+08	1.999E+03	2.996E+06	1.058E+08
1984	8.006E+03	6.248E+06	2.207E+08	2.288E+03	3.429E+06	1.211E+08
1985	8.977E+03	7.006E+06	2.474E+08	2.565E+03	3.845E+06	1.358E+08
1986	9.909E+03	7.733E+06	2.731E+08	2.831E+03	4.244E+06	1.499E+08
1987	1.080E+04	8.432E+06	2.978E+08	3.087E+03	4.628E+06	1.634E+08
1988	1.167E+04	9.104E+06	3.215E+08	3.333E+03	4.996E+06	1.764E+08
1989	1.250E+04	9.756E+06	3.445E+08	3.572E+03	5.354E+06	1.891E+08
1990	1.330E+04	1.038E+07	3.664E+08	3.799E+03	5.694E+06	2.011E+08
1991	1.406E+04	1.097E+07	3.875E+08	4.017E+03	6.021E+06	2.126E+08
1992	1.479E+04	1.154E+07	4.077E+08	4.226E+03	6.335E+06	2.237E+08
1993	1.550E+04	1.209E+07	4.271E+08	4.428E+03	6.637E+06	2.344E+08
1994	1.617E+04	1.262E+07	4.457E+08	4.621E+03	6.927E+06	2.446E+08
1995	1.682E+04	1.313E+07	4.636E+08	4.807E+03	7.205E+06	2.544E+08
1996	1.745E+04	1.362E+07	4.809E+08	4.985E+03	7.473E+06	2.639E+08
1997	1.805E+04	1.408E+07	4.974E+08	5.157E+03	7.730E+06	2.730E+08
1998	1.863E+04	1.454E+07	5.135E+08	5.324E+03	7.980E+06	2.818E+08
1999	1.919E+04	1.497E+07	5.288E+08	5.482E+03	8.218E+06	2.902E+08
2000	1.968E+04	1.536E+07	5.424E+08	5.624E+03	8.430E+06	2.977E+08
2001	2.033E+04	1.587E+07	5.604E+08	5.810E+03	8.708E+06	3.075E+08
2002	2.102E+04	1.641E+07	5.793E+08	6.006E+03	9.003E+06	3.179E+08
2003	2.073E+04	1.618E+07	5.713E+08	5.923E+03	8.878E+06	3.135E+08
2004	2.120E+04	1.655E+07	5.843E+08	6.058E+03	9.080E+06	3.207E+08
2005	2.062E+04	1.609E+07	5.682E+08	5.891E+03	8.830E+06	3.118E+08
2006	2.049E+04	1.599E+07	5.648E+08	5.856E+03	8.777E+06	3.100E+08
2007	2.031E+04	1.585E+07	5.597E+08	5.803E+03	8.698E+06	3.072E+08
2008	2.015E+04	1.572E+07	5.553E+08	5.757E+03	8.630E+06	3.048E+08
2009	1.988E+04	1.552E+07	5.480E+08	5.681E+03	8.516E+06	3.007E+08
2010	1.944E+04	1.517E+07	5.358E+08	5.555E+03	8.326E+06	2.940E+08
2011	1.894E+04	1.478E+07	5.219E+08	5.411E+03	8.111E+06	2.864E+08
2012	1.833E+04	1.431E+07	5.052E+08	5.238E+03	7.851E+06	2.773E+08
2013	1.791E+04	1.398E+07	4.936E+08	5.118E+03	7.671E+06	2.709E+08
2014	1.751E+04	1.366E+07	4.825E+08	5.002E+03	7.498E+06	2.648E+08
2015	1.712E+04	1.336E+07	4.718E+08	4.891E+03	7.332E+06	2.589E+08
2016	1.675E+04	1.307E+07	4.615E+08	4.785E+03	7.172E+06	2.533E+08
2017	1.639E+04	1.279E+07	4.516E+08	4.682E+03	7.018E+06	2.478E+08
2018	1.604E+04	1.252E+07	4.421E+08	4.584E+03	6.871E+06	2.426E+08
2019	1.541E+04	1.203E+07	4.248E+08	4.404E+03	6.601E+06	2.331E+08
2020	1.481E+04	1.156E+07	4.081E+08	4.231E+03	6.342E+06	2.240E+08
2021	1.423E+04	1.110E+07	3.921E+08	4.065E+03	6.094E+06	2.152E+08
2022	1.367E+04	1.067E+07	3.768E+08	3.906E+03	5.855E+06	2.068E+08
2023	1.313E+04	1.025E+07	3.620E+08	3.753E+03	5.625E+06	1.987E+08
2024	1.262E+04	9.848E+06	3.478E+08	3.606E+03	5.405E+06	1.909E+08
2025	1.212E+04	9.462E+06	3.342E+08	3.464E+03	5.193E+06	1.834E+08
2026	1.165E+04	9.091E+06	3.211E+08	3.329E+03	4.989E+06	1.762E+08

Results (Continued)

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(ft ³ /year)	(Mg/year)	(m ³ /year)	(ft ³ /year)
2027	1.119E+04	8.735E+06	3.085E+08	3.198E+03	4.794E+06	1.693E+08
2028	1.075E+04	8.392E+06	2.964E+08	3.073E+03	4.606E+06	1.626E+08
2029	1.033E+04	8.063E+06	2.847E+08	2.952E+03	4.425E+06	1.563E+08
2030	9.927E+03	7.747E+06	2.736E+08	2.836E+03	4.251E+06	1.501E+08
2031	9.537E+03	7.443E+06	2.629E+08	2.725E+03	4.085E+06	1.443E+08
2032	9.164E+03	7.151E+06	2.525E+08	2.618E+03	3.925E+06	1.386E+08
2033	8.804E+03	6.871E+06	2.426E+08	2.516E+03	3.771E+06	1.332E+08
2034	8.459E+03	6.601E+06	2.331E+08	2.417E+03	3.623E+06	1.279E+08
2035	8.127E+03	6.343E+06	2.240E+08	2.322E+03	3.481E+06	1.229E+08
2036	7.809E+03	6.094E+06	2.152E+08	2.231E+03	3.344E+06	1.181E+08
2037	7.502E+03	5.855E+06	2.068E+08	2.144E+03	3.213E+06	1.135E+08
2038	7.208E+03	5.625E+06	1.987E+08	2.060E+03	3.087E+06	1.090E+08
2039	6.926E+03	5.405E+06	1.909E+08	1.979E+03	2.966E+06	1.048E+08
2040	6.654E+03	5.193E+06	1.834E+08	1.901E+03	2.850E+06	1.006E+08
2041	6.393E+03	4.989E+06	1.762E+08	1.827E+03	2.738E+06	9.670E+07
2042	6.142E+03	4.794E+06	1.693E+08	1.755E+03	2.631E+06	9.291E+07
2043	5.902E+03	4.606E+06	1.626E+08	1.686E+03	2.528E+06	8.926E+07
2044	5.670E+03	4.425E+06	1.563E+08	1.620E+03	2.428E+06	8.576E+07
2045	5.448E+03	4.252E+06	1.501E+08	1.557E+03	2.333E+06	8.240E+07
2046	5.234E+03	4.085E+06	1.443E+08	1.496E+03	2.242E+06	7.917E+07
2047	5.029E+03	3.925E+06	1.386E+08	1.437E+03	2.154E+06	7.606E+07
2048	4.832E+03	3.771E+06	1.332E+08	1.381E+03	2.069E+06	7.308E+07
2049	4.642E+03	3.623E+06	1.279E+08	1.326E+03	1.988E+06	7.022E+07
2050	4.460E+03	3.481E+06	1.229E+08	1.274E+03	1.910E+06	6.746E+07
2051	4.285E+03	3.344E+06	1.181E+08	1.224E+03	1.835E+06	6.482E+07
2052	4.117E+03	3.213E+06	1.135E+08	1.176E+03	1.763E+06	6.228E+07
2053	3.956E+03	3.087E+06	1.090E+08	1.130E+03	1.694E+06	5.983E+07
2054	3.801E+03	2.966E+06	1.048E+08	1.086E+03	1.628E+06	5.749E+07
2055	3.652E+03	2.850E+06	1.006E+08	1.043E+03	1.564E+06	5.523E+07
2056	3.509E+03	2.738E+06	9.670E+07	1.003E+03	1.503E+06	5.307E+07
2057	3.371E+03	2.631E+06	9.291E+07	9.632E+02	1.444E+06	5.099E+07
2058	3.239E+03	2.528E+06	8.926E+07	9.255E+02	1.387E+06	4.899E+07
2059	3.112E+03	2.429E+06	8.576E+07	8.892E+02	1.333E+06	4.707E+07
2060	2.990E+03	2.333E+06	8.240E+07	8.543E+02	1.281E+06	4.522E+07
2061	2.873E+03	2.242E+06	7.917E+07	8.208E+02	1.230E+06	4.345E+07
2062	2.760E+03	2.154E+06	7.607E+07	7.886E+02	1.182E+06	4.174E+07
2063	2.652E+03	2.069E+06	7.308E+07	7.577E+02	1.136E+06	4.011E+07
2064	2.548E+03	1.988E+06	7.022E+07	7.280E+02	1.091E+06	3.854E+07
2065	2.448E+03	1.910E+06	6.746E+07	6.994E+02	1.048E+06	3.702E+07
2066	2.352E+03	1.835E+06	6.482E+07	6.720E+02	1.007E+06	3.557E+07
2067	2.260E+03	1.763E+06	6.228E+07	6.457E+02	9.678E+05	3.418E+07
2068	2.171E+03	1.694E+06	5.984E+07	6.203E+02	9.299E+05	3.284E+07
2069	2.086E+03	1.628E+06	5.749E+07	5.960E+02	8.934E+05	3.155E+07
2070	2.004E+03	1.564E+06	5.524E+07	5.727E+02	8.584E+05	3.031E+07
2071	1.926E+03	1.503E+06	5.307E+07	5.502E+02	8.247E+05	2.912E+07
2072	1.850E+03	1.444E+06	5.099E+07	5.286E+02	7.924E+05	2.798E+07
2073	1.778E+03	1.387E+06	4.899E+07	5.079E+02	7.613E+05	2.689E+07
2074	1.708E+03	1.333E+06	4.707E+07	4.880E+02	7.314E+05	2.583E+07
2075	1.641E+03	1.281E+06	4.522E+07	4.688E+02	7.028E+05	2.482E+07
2076	1.577E+03	1.230E+06	4.345E+07	4.505E+02	6.752E+05	2.385E+07
2077	1.515E+03	1.182E+06	4.175E+07	4.328E+02	6.487E+05	2.291E+07

Results (Continued)

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(ft ³ /year)	(Mg/year)	(m ³ /year)	(ft ³ /year)
2078	1.455E+03	1.136E+06	4.011E+07	4.158E+02	6.233E+05	2.201E+07
2079	1.398E+03	1.091E+06	3.854E+07	3.995E+02	5.989E+05	2.115E+07
2080	1.343E+03	1.048E+06	3.703E+07	3.839E+02	5.754E+05	2.032E+07
2081	1.291E+03	1.007E+06	3.557E+07	3.688E+02	5.528E+05	1.952E+07
2082	1.240E+03	9.678E+05	3.418E+07	3.543E+02	5.311E+05	1.876E+07
2083	1.192E+03	9.299E+05	3.284E+07	3.405E+02	5.103E+05	1.802E+07
2084	1.145E+03	8.934E+05	3.155E+07	3.271E+02	4.903E+05	1.732E+07
2085	1.100E+03	8.584E+05	3.031E+07	3.143E+02	4.711E+05	1.664E+07
2086	1.057E+03	8.247E+05	2.913E+07	3.020E+02	4.526E+05	1.598E+07
2087	1.015E+03	7.924E+05	2.798E+07	2.901E+02	4.349E+05	1.536E+07
2088	9.755E+02	7.613E+05	2.689E+07	2.787E+02	4.178E+05	1.475E+07
2089	9.373E+02	7.315E+05	2.583E+07	2.678E+02	4.014E+05	1.418E+07
2090	9.005E+02	7.028E+05	2.482E+07	2.573E+02	3.857E+05	1.362E+07
2091	8.652E+02	6.752E+05	2.385E+07	2.472E+02	3.706E+05	1.309E+07
2092	8.313E+02	6.487E+05	2.291E+07	2.375E+02	3.560E+05	1.257E+07
2093	7.987E+02	6.233E+05	2.201E+07	2.282E+02	3.421E+05	1.208E+07
2094	7.674E+02	5.989E+05	2.115E+07	2.193E+02	3.287E+05	1.161E+07
2095	7.373E+02	5.754E+05	2.032E+07	2.107E+02	3.158E+05	1.115E+07
2096	7.084E+02	5.528E+05	1.952E+07	2.024E+02	3.034E+05	1.071E+07
2097	6.806E+02	5.312E+05	1.876E+07	1.945E+02	2.915E+05	1.029E+07
2098	6.539E+02	5.103E+05	1.802E+07	1.868E+02	2.801E+05	9.891E+06
2099	6.283E+02	4.903E+05	1.732E+07	1.795E+02	2.691E+05	9.503E+06
2100	6.036E+02	4.711E+05	1.664E+07	1.725E+02	2.585E+05	9.130E+06
2101	5.800E+02	4.526E+05	1.598E+07	1.657E+02	2.484E+05	8.772E+06
2102	5.572E+02	4.349E+05	1.536E+07	1.592E+02	2.387E+05	8.428E+06
2103	5.354E+02	4.178E+05	1.476E+07	1.530E+02	2.293E+05	8.098E+06
2104	5.144E+02	4.014E+05	1.418E+07	1.470E+02	2.203E+05	7.780E+06
2105	4.942E+02	3.857E+05	1.362E+07	1.412E+02	2.117E+05	7.475E+06
2106	4.748E+02	3.706E+05	1.309E+07	1.357E+02	2.034E+05	7.182E+06
2107	4.562E+02	3.560E+05	1.257E+07	1.304E+02	1.954E+05	6.900E+06
2108	4.383E+02	3.421E+05	1.208E+07	1.252E+02	1.877E+05	6.630E+06
2109	4.211E+02	3.287E+05	1.161E+07	1.203E+02	1.804E+05	6.370E+06
2110	4.046E+02	3.158E+05	1.115E+07	1.156E+02	1.733E+05	6.120E+06
2111	3.888E+02	3.034E+05	1.071E+07	1.111E+02	1.665E+05	5.880E+06
2112	3.735E+02	2.915E+05	1.029E+07	1.067E+02	1.600E+05	5.650E+06
2113	3.589E+02	2.801E+05	9.891E+06	1.025E+02	1.537E+05	5.428E+06
2114	3.448E+02	2.691E+05	9.503E+06	9.852E+01	1.477E+05	5.215E+06
2115	3.313E+02	2.585E+05	9.130E+06	9.466E+01	1.419E+05	5.011E+06
2116	3.183E+02	2.484E+05	8.772E+06	9.095E+01	1.363E+05	4.814E+06
2117	3.058E+02	2.387E+05	8.428E+06	8.738E+01	1.310E+05	4.625E+06

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(ft ³ /year)	(Mg/year)	(m ³ /year)	(ft ³ /year)
1977	0	0	0	0	0	0
1978	8.284E+02	4.525E+05	1.598E+07	5.716E-01	1.595E+02	5.632E+03
1979	1.625E+03	8.877E+05	3.135E+07	1.121E+00	3.128E+02	1.105E+04
1980	2.390E+03	1.305E+06	4.610E+07	1.649E+00	4.600E+02	1.625E+04
1981	3.124E+03	1.707E+06	6.027E+07	2.156E+00	6.015E+02	2.124E+04
1982	3.830E+03	2.092E+06	7.389E+07	2.643E+00	7.373E+02	2.604E+04
1983	4.508E+03	2.463E+06	8.698E+07	3.111E+00	8.679E+02	3.065E+04
1984	5.161E+03	2.819E+06	9.956E+07	3.561E+00	9.935E+02	3.508E+04
1985	5.786E+03	3.161E+06	1.116E+08	3.993E+00	1.114E+03	3.934E+04
1986	6.387E+03	3.489E+06	1.232E+08	4.407E+00	1.230E+03	4.342E+04
1987	6.964E+03	3.805E+06	1.344E+08	4.806E+00	1.341E+03	4.735E+04
1988	7.519E+03	4.108E+06	1.451E+08	5.189E+00	1.448E+03	5.112E+04
1989	8.058E+03	4.402E+06	1.555E+08	5.560E+00	1.551E+03	5.478E+04
1990	8.570E+03	4.682E+06	1.653E+08	5.914E+00	1.650E+03	5.826E+04
1991	9.062E+03	4.950E+06	1.748E+08	6.253E+00	1.744E+03	6.161E+04
1992	9.534E+03	5.208E+06	1.839E+08	6.579E+00	1.835E+03	6.482E+04
1993	9.988E+03	5.456E+06	1.927E+08	6.892E+00	1.923E+03	6.790E+04
1994	1.042E+04	5.695E+06	2.011E+08	7.193E+00	2.007E+03	7.087E+04
1995	1.084E+04	5.924E+06	2.092E+08	7.482E+00	2.087E+03	7.372E+04
1996	1.125E+04	6.144E+06	2.170E+08	7.760E+00	2.165E+03	7.646E+04
1997	1.163E+04	6.355E+06	2.244E+08	8.027E+00	2.239E+03	7.909E+04
1998	1.201E+04	6.561E+06	2.317E+08	8.288E+00	2.312E+03	8.165E+04
1999	1.237E+04	6.756E+06	2.386E+08	8.534E+00	2.381E+03	8.408E+04
2000	1.269E+04	6.931E+06	2.448E+08	8.754E+00	2.442E+03	8.625E+04
2001	1.311E+04	7.159E+06	2.528E+08	9.043E+00	2.523E+03	8.910E+04
2002	1.355E+04	7.402E+06	2.614E+08	9.350E+00	2.608E+03	9.212E+04
2003	1.336E+04	7.299E+06	2.578E+08	9.220E+00	2.572E+03	9.084E+04
2004	1.366E+04	7.465E+06	2.636E+08	9.430E+00	2.631E+03	9.290E+04
2005	1.329E+04	7.260E+06	2.564E+08	9.170E+00	2.558E+03	9.034E+04
2006	1.321E+04	7.216E+06	2.548E+08	9.115E+00	2.543E+03	8.980E+04
2007	1.309E+04	7.151E+06	2.525E+08	9.033E+00	2.520E+03	8.899E+04
2008	1.299E+04	7.095E+06	2.506E+08	8.962E+00	2.500E+03	8.830E+04
2009	1.282E+04	7.002E+06	2.473E+08	8.844E+00	2.467E+03	8.713E+04
2010	1.253E+04	6.845E+06	2.417E+08	8.646E+00	2.412E+03	8.519E+04
2011	1.221E+04	6.668E+06	2.355E+08	8.423E+00	2.350E+03	8.299E+04
2012	1.182E+04	6.455E+06	2.280E+08	8.153E+00	2.275E+03	8.033E+04
2013	1.154E+04	6.307E+06	2.227E+08	7.966E+00	2.222E+03	7.849E+04
2014	1.128E+04	6.164E+06	2.177E+08	7.787E+00	2.172E+03	7.671E+04
2015	1.103E+04	6.028E+06	2.129E+08	7.614E+00	2.124E+03	7.501E+04
2016	1.079E+04	5.896E+06	2.082E+08	7.448E+00	2.078E+03	7.338E+04
2017	1.056E+04	5.770E+06	2.038E+08	7.288E+00	2.033E+03	7.181E+04
2018	1.034E+04	5.649E+06	1.995E+08	7.135E+00	1.991E+03	7.030E+04
2019	9.935E+03	5.427E+06	1.917E+08	6.855E+00	1.913E+03	6.754E+04
2020	9.545E+03	5.215E+06	1.842E+08	6.587E+00	1.838E+03	6.489E+04
2021	9.171E+03	5.010E+06	1.769E+08	6.328E+00	1.766E+03	6.235E+04
2022	8.811E+03	4.814E+06	1.700E+08	6.080E+00	1.696E+03	5.990E+04
2023	8.466E+03	4.625E+06	1.633E+08	5.842E+00	1.630E+03	5.756E+04
2024	8.134E+03	4.444E+06	1.569E+08	5.613E+00	1.566E+03	5.530E+04
2025	7.815E+03	4.269E+06	1.508E+08	5.393E+00	1.504E+03	5.313E+04
2026	7.508E+03	4.102E+06	1.449E+08	5.181E+00	1.445E+03	5.105E+04

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(ft ³ /year)	(Mg/year)	(m ³ /year)	(ft ³ /year)
2027	7.214E+03	3.941E+06	1.392E+08	4.978E+00	1.389E+03	4.905E+04
2028	6.931E+03	3.787E+06	1.337E+08	4.783E+00	1.334E+03	4.712E+04
2029	6.659E+03	3.638E+06	1.285E+08	4.595E+00	1.282E+03	4.527E+04
2030	6.398E+03	3.495E+06	1.234E+08	4.415E+00	1.232E+03	4.350E+04
2031	6.147E+03	3.358E+06	1.186E+08	4.242E+00	1.183E+03	4.179E+04
2032	5.906E+03	3.227E+06	1.139E+08	4.076E+00	1.137E+03	4.016E+04
2033	5.675E+03	3.100E+06	1.095E+08	3.916E+00	1.092E+03	3.858E+04
2034	5.452E+03	2.979E+06	1.052E+08	3.762E+00	1.050E+03	3.707E+04
2035	5.238E+03	2.862E+06	1.011E+08	3.615E+00	1.008E+03	3.561E+04
2036	5.033E+03	2.750E+06	9.710E+07	3.473E+00	9.689E+02	3.422E+04
2037	4.836E+03	2.642E+06	9.329E+07	3.337E+00	9.309E+02	3.288E+04
2038	4.646E+03	2.538E+06	8.964E+07	3.206E+00	8.944E+02	3.159E+04
2039	4.464E+03	2.439E+06	8.612E+07	3.080E+00	8.594E+02	3.035E+04
2040	4.289E+03	2.343E+06	8.274E+07	2.960E+00	8.257E+02	2.916E+04
2041	4.121E+03	2.251E+06	7.950E+07	2.844E+00	7.933E+02	2.802E+04
2042	3.959E+03	2.163E+06	7.638E+07	2.732E+00	7.622E+02	2.692E+04
2043	3.804E+03	2.078E+06	7.339E+07	2.625E+00	7.323E+02	2.586E+04
2044	3.655E+03	1.997E+06	7.051E+07	2.522E+00	7.036E+02	2.485E+04
2045	3.511E+03	1.918E+06	6.775E+07	2.423E+00	6.760E+02	2.387E+04
2046	3.374E+03	1.843E+06	6.509E+07	2.328E+00	6.495E+02	2.294E+04
2047	3.241E+03	1.771E+06	6.254E+07	2.237E+00	6.240E+02	2.204E+04
2048	3.114E+03	1.701E+06	6.008E+07	2.149E+00	5.996E+02	2.117E+04
2049	2.992E+03	1.635E+06	5.773E+07	2.065E+00	5.761E+02	2.034E+04
2050	2.875E+03	1.571E+06	5.547E+07	1.984E+00	5.535E+02	1.955E+04
2051	2.762E+03	1.509E+06	5.329E+07	1.906E+00	5.318E+02	1.878E+04
2052	2.654E+03	1.450E+06	5.120E+07	1.831E+00	5.109E+02	1.804E+04
2053	2.550E+03	1.393E+06	4.919E+07	1.760E+00	4.909E+02	1.734E+04
2054	2.450E+03	1.338E+06	4.726E+07	1.691E+00	4.716E+02	1.666E+04
2055	2.354E+03	1.286E+06	4.541E+07	1.624E+00	4.531E+02	1.600E+04
2056	2.262E+03	1.235E+06	4.363E+07	1.561E+00	4.354E+02	1.538E+04
2057	2.173E+03	1.187E+06	4.192E+07	1.499E+00	4.183E+02	1.477E+04
2058	2.088E+03	1.140E+06	4.028E+07	1.441E+00	4.019E+02	1.419E+04
2059	2.006E+03	1.096E+06	3.870E+07	1.384E+00	3.861E+02	1.364E+04
2060	1.927E+03	1.053E+06	3.718E+07	1.330E+00	3.710E+02	1.310E+04
2061	1.852E+03	1.012E+06	3.572E+07	1.278E+00	3.565E+02	1.259E+04
2062	1.779E+03	9.719E+05	3.432E+07	1.228E+00	3.425E+02	1.209E+04
2063	1.709E+03	9.337E+05	3.298E+07	1.179E+00	3.290E+02	1.162E+04
2064	1.642E+03	8.971E+05	3.168E+07	1.133E+00	3.161E+02	1.116E+04
2065	1.578E+03	8.620E+05	3.044E+07	1.089E+00	3.037E+02	1.073E+04
2066	1.516E+03	8.282E+05	2.925E+07	1.046E+00	2.918E+02	1.031E+04
2067	1.456E+03	7.957E+05	2.810E+07	1.005E+00	2.804E+02	9.902E+03
2068	1.399E+03	7.645E+05	2.700E+07	9.657E-01	2.694E+02	9.514E+03
2069	1.345E+03	7.345E+05	2.594E+07	9.278E-01	2.588E+02	9.141E+03
2070	1.292E+03	7.057E+05	2.492E+07	8.914E-01	2.487E+02	8.782E+03
2071	1.241E+03	6.780E+05	2.394E+07	8.565E-01	2.389E+02	8.438E+03
2072	1.192E+03	6.515E+05	2.301E+07	8.229E-01	2.296E+02	8.107E+03
2073	1.146E+03	6.259E+05	2.210E+07	7.906E-01	2.206E+02	7.789E+03
2074	1.101E+03	6.014E+05	2.124E+07	7.596E-01	2.119E+02	7.484E+03
2075	1.058E+03	5.778E+05	2.040E+07	7.298E-01	2.036E+02	7.190E+03
2076	1.016E+03	5.551E+05	1.960E+07	7.012E-01	1.956E+02	6.908E+03
2077	9.763E+02	5.334E+05	1.884E+07	6.737E-01	1.880E+02	6.638E+03

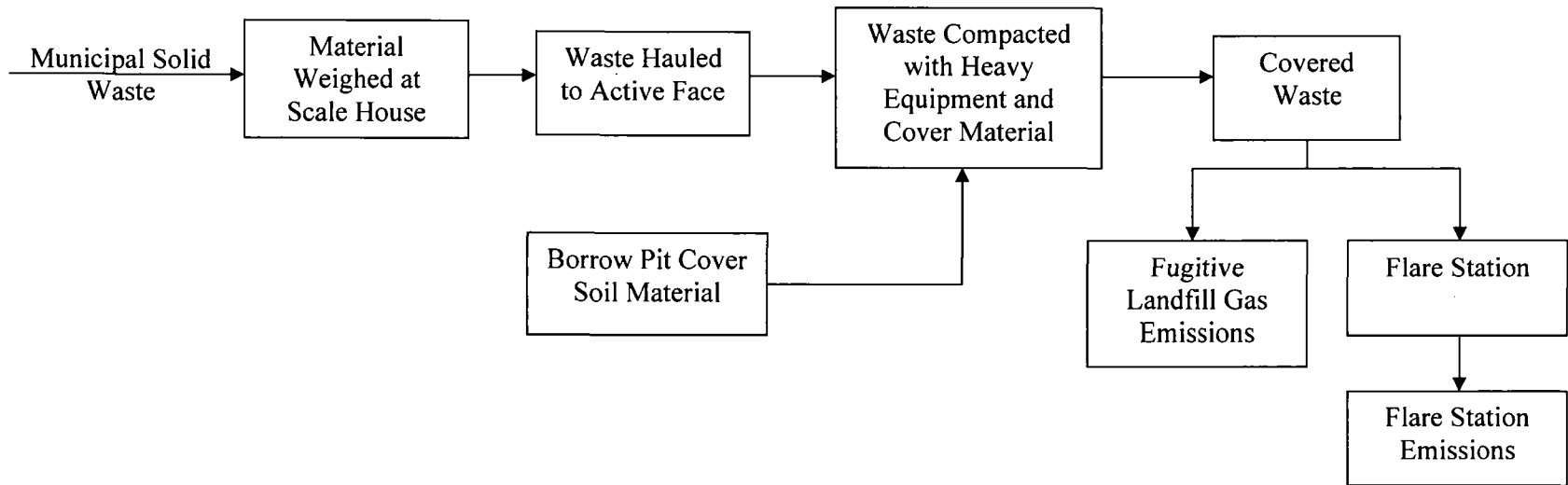
Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(ft ³ /year)	(Mg/year)	(m ³ /year)	(ft ³ /year)
2078	9.380E+02	5.124E+05	1.810E+07	6.473E-01	1.806E+02	6.377E+03
2079	9.013E+02	4.924E+05	1.739E+07	6.219E-01	1.735E+02	6.127E+03
2080	8.659E+02	4.731E+05	1.671E+07	5.975E-01	1.667E+02	5.887E+03
2081	8.320E+02	4.545E+05	1.605E+07	5.741E-01	1.602E+02	5.656E+03
2082	7.993E+02	4.367E+05	1.542E+07	5.516E-01	1.539E+02	5.434E+03
2083	7.680E+02	4.196E+05	1.482E+07	5.300E-01	1.478E+02	5.221E+03
2084	7.379E+02	4.031E+05	1.424E+07	5.092E-01	1.421E+02	5.017E+03
2085	7.090E+02	3.873E+05	1.368E+07	4.892E-01	1.365E+02	4.820E+03
2086	6.812E+02	3.721E+05	1.314E+07	4.700E-01	1.311E+02	4.631E+03
2087	6.544E+02	3.575E+05	1.263E+07	4.516E-01	1.260E+02	4.449E+03
2088	6.288E+02	3.435E+05	1.213E+07	4.339E-01	1.210E+02	4.275E+03
2089	6.041E+02	3.300E+05	1.166E+07	4.169E-01	1.163E+02	4.107E+03
2090	5.804E+02	3.171E+05	1.120E+07	4.005E-01	1.117E+02	3.946E+03
2091	5.577E+02	3.047E+05	1.076E+07	3.848E-01	1.074E+02	3.791E+03
2092	5.358E+02	2.927E+05	1.034E+07	3.697E-01	1.032E+02	3.643E+03
2093	5.148E+02	2.812E+05	9.932E+06	3.552E-01	9.911E+01	3.500E+03
2094	4.946E+02	2.702E+05	9.542E+06	3.413E-01	9.522E+01	3.363E+03
2095	4.752E+02	2.596E+05	9.168E+06	3.279E-01	9.149E+01	3.231E+03
2096	4.566E+02	2.494E+05	8.809E+06	3.151E-01	8.790E+01	3.104E+03
2097	4.387E+02	2.397E+05	8.463E+06	3.027E-01	8.445E+01	2.982E+03
2098	4.215E+02	2.303E+05	8.132E+06	2.908E-01	8.114E+01	2.866E+03
2099	4.050E+02	2.212E+05	7.813E+06	2.794E-01	7.796E+01	2.753E+03
2100	3.891E+02	2.126E+05	7.506E+06	2.685E-01	7.490E+01	2.645E+03
2101	3.738E+02	2.042E+05	7.212E+06	2.580E-01	7.197E+01	2.541E+03
2102	3.592E+02	1.962E+05	6.929E+06	2.478E-01	6.914E+01	2.442E+03
2103	3.451E+02	1.885E+05	6.658E+06	2.381E-01	6.643E+01	2.346E+03
2104	3.316E+02	1.811E+05	6.397E+06	2.288E-01	6.383E+01	2.254E+03
2105	3.186E+02	1.740E+05	6.146E+06	2.198E-01	6.133E+01	2.166E+03
2106	3.061E+02	1.672E+05	5.905E+06	2.112E-01	5.892E+01	2.081E+03
2107	2.941E+02	1.606E+05	5.673E+06	2.029E-01	5.661E+01	1.999E+03
2108	2.825E+02	1.543E+05	5.451E+06	1.950E-01	5.439E+01	1.921E+03
2109	2.715E+02	1.483E+05	5.237E+06	1.873E-01	5.226E+01	1.845E+03
2110	2.608E+02	1.425E+05	5.032E+06	1.800E-01	5.021E+01	1.773E+03
2111	2.506E+02	1.369E+05	4.834E+06	1.729E-01	4.824E+01	1.704E+03
2112	2.408E+02	1.315E+05	4.645E+06	1.661E-01	4.635E+01	1.637E+03
2113	2.313E+02	1.264E+05	4.463E+06	1.596E-01	4.453E+01	1.573E+03
2114	2.222E+02	1.214E+05	4.288E+06	1.534E-01	4.279E+01	1.511E+03
2115	2.135E+02	1.167E+05	4.120E+06	1.473E-01	4.111E+01	1.452E+03
2116	2.052E+02	1.121E+05	3.958E+06	1.416E-01	3.950E+01	1.395E+03
2117	1.971E+02	1.077E+05	3.803E+06	1.360E-01	3.795E+01	1.340E+03

ATTACHMENT C
FACILITY PLOT PLAN

ATTACHMENT D
PROCESS FLOW DIAGRAM

The following process flow diagram shows the permitted solid waste facility.



ATTACHMENT E
PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE
MATTER

Precautions to Prevent Unconfined PM Emissions:

Pursuant to Rule 62-296-320, F.A.C., the County will undertake all reasonable actions to prevent the emission of particulate matter above the amounts stipulated in Table 296.320-1 of the referenced rule. Particulate matter emissions from the Central Landfill are expected to be minimal. The landfill will continue to monitor established vegetation growth on the cap. If a high volume of traffic is expected, the County will spray roads with water to prevent dust from escaping. Any on-site construction projects will utilize best management practices in preventing fugitive emissions.

ATTACHMENT F
LIST OF INSIGNIFICANT ACTIVITIES

The below listed emissions units and/or activities are considered insignificant pursuant to Rule 62-213.430(6), F.A.C.

1. Wood waste processing and temporary storage.
2. White goods temporary storage.
3. Household hazardous waste collection and temporary storage.
4. Used oil collection and temporary storage.
5. Diesel fuel storage tank.
6. Scrap tire temporary storage.
7. Asbestos disposal pit.
8. Equipment maintenance building with hydraulic and motor oil storage.
9. Electronic waste collection and temporary storage.
10. Oil, gas and battery removal from lawn mowers and similar equipment.
11. Lead-acid battery temporary storage.

ATTACHMENT G
IDENTIFICATION OF APPLICABLE REQUIREMENTS

Applicable Requirements:

1. Florida Department of Environmental Protection's Title V Core List
2. 40 CFR 60, Subpart A
3. 40 CFR 60.33c, 60.34c & 60.35c
4. 40 CFR Part 82, Subpart F
5. 62-296.320 (2), FAC
6. 62-296.320 (4)(b) 1 and 4, FAC
7. 62-296.320(4)(c), FAC
8. 62-213.430, FAC
9. 62-213.440, FAC