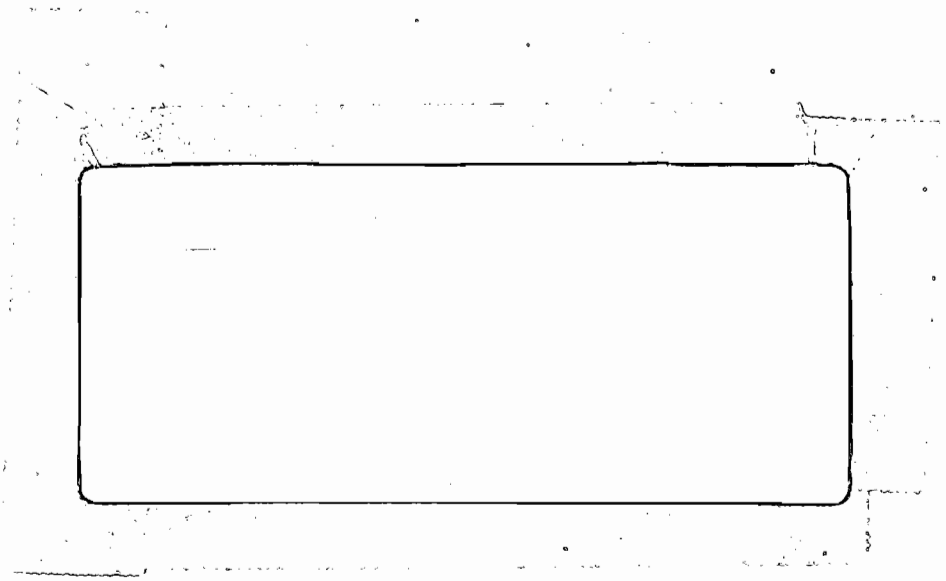


Golder Associates

Golder Associates Inc.

6241 NW 23rd Street, Suite 500
Gainesville, FL 32653-1500
Telephone (352) 336-5600
Fax (352) 336-6603

Golder Associates

TRANSMITTAL LETTER

To: Mr. Laxmana Tallam, P.E.

Palm Beach County Health Department

Date: February 26, 2009
Project No.: 09387515-0100/BAS/tlc

ENV. HEALTH & ENG.
2009 FEB 27 AM 8:59

Sent by: tlc

- ☐ Mail
- ☐ Air Freight
- ☐ Hand Carried
- ☐ UPS
- ☒ Federal Express

Per: Brian Storey

Quantity	Item	Description
4	Bound Copies	Air Construction Permit

Mr. Laxmana Tallam

Please call me to discuss any questions or comments you may have concerning this application.

RECEIVED
MAR 05 2009
BUREAU OF AIR REGULATION

Sincerely,
Brian Storey
Project Manager

Cc: Seth Nunes
David Thorley

L022609-515.doc

RECEIVED
MAR 02 2009
Dept of Env Protection
West Palm Beach

Permit File Scanning Request from Elizabeth

Priority: ☐-ASAP (Public Records Request, etc.) ☒-Place in Normal Scanning Queue

Facility ID	Project#	Type	PSD #	Submittal Date	Batch #
0930104	014	AC		SEP 30 2010	

☒ File Approved For Disposal
☐ Return File to BAR

~~Scan as corresp.~~

☒ Correspondence ☐ Intent ☐ Permit ☐ Draft
☐ Amendment ☐ Application ☐ OGC ☐ Proposed

Document Date 3-5-09

AIR CONSTRUCTION PERMIT AND TITLE V AIR OPERATION PERMIT REVISION APPLICATION

PUG MILL INSTALLATION

OKEECHOBEE LANDFILL INC.

OKEECHOBEE COUNTY, FLORIDA

Prepared For:

Okeechobee Landfill Inc.
10800 NE 128th Avenue
Okeechobee, Florida 34972

Prepared By:

Golder Associates Inc.
6241 NW 23rd Street, Suite 500
Gainesville, Florida 32653-1500

February 2009

0938-7515

DISTRIBUTION:
4 Copies – PBCHD
2 Copies – Okeechobee Landfill Inc.
1 Copy – Golder Associates Inc.

APPLICATION FOR AIR PERMIT

LONG FORM

Department of Environmental Protection

Division of Air Resource Management

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: **Okeechobee Landfill Inc.**	
2. Site Name: **Berman Road Landfill**	
3. Facility Identification Number: **0930104**	
4. Facility Location... Street Address or Other Locator: **10800 NE 128th Avenue** City: **Okeechobee** County: **Okeechobee** Zip Code: **34972**	
5. Relocatable Facility? ☐ Yes ☒ No	6. Existing Title V Permitted Facility? ☒ Yes ☐ No

Application Contact

1. Application Contact Name: **Seth A. Nunes, Market Area Engineer**
2. Application Contact Mailing Address... Organization/Firm: **Okeechobee Landfill Inc.** Street Address: **10800 NE 128th Avenue** City: **Okeechobee** State: **Florida** Zip Code: **34972**
3. Application Contact Telephone Numbers... Telephone: **(863) 357-0111** ext. Fax: **(863) 357-0772**
4. Application Contact E-mail Address: **SNunes1@wm.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):

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

The purpose of this application is for the construction of a Pug Mill at the landfill, where fly ash will be combined with water to hydrate the ash before placing it in the landfill for disposal.

The proposed Pug Mill will be enclosed and will include two fly ash storage silos. Particulate matter emissions generated during loading of dry fly ash to the storage silos will be controlled by one (1) baghouse atop each silo [total of two (2) baghouses]. Particulate matter emissions are not generated during mixing and loading of hydrated fly ash to transfer vehicles since the mixer is enclosed and the product is 70 percent moisture.

APPLICATION INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee
006 (proposed)	Pug Mill, including two (2) Fly Ash Storage Silos and two (2) baghouses	AC1F	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, 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.* _____ _____ 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:
   Timothy B. Hawkins, Vice President

2. Application Responsible Official Qualification (Check one or more of the following options, as applicable):
   - ☒ 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.
   - ☐ For a partnership or sole proprietorship, a general partner or the proprietor, respectively.
   - ☐ For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official.
   - ☐ The designated representative at an Acid Rain source, CAIR source, or Hg Budget source.

3. Application Responsible Official Mailing Address...
   Organization/Firm: **Okeechobee Landfill Inc.**
   Street Address: **10800 NE 128th Avenue**
   City: **Okeechobee** State: **Florida** Zip Code: **34972**

4. Application Responsible Official Telephone Numbers...
   Telephone: **(863) 357-0111** ext. Fax: **(863) 357-0772**

5. Application Responsible Official E-mail Address: **thawkins@wm.com**

6. Application Responsible Official Certification:

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.

Signature

2-19-09
Date

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: **David A. Buff**
   Registration Number: **19011**
2. Professional Engineer Mailing Address...
   Organization/Firm: **Golder Associates Inc.****
   Street Address: **6241 NW 23rd Street, Suite 500**
   City: **Gainesville** State: **FL** Zip Code: **32653**
3. Professional Engineer Telephone Numbers...
   Telephone: **(352) 336-5600** ext. **545** Fax: **(352) 336-6603**
4. Professional Engineer E-mail Address: **DBuff@golder.com**
5. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(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

(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.

(3) If the purpose of this application is to obtain a Title V air operation permit (check here ☐, 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.

(4) If the purpose of this application is to obtain an air construction permit (check here ☐, 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 ☒, 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.

(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 ☐, 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.

David A. Buff — 2/17/09

Signature Date

(seal)

* Attach any exception to certification statement.

** Board of Professional Engineers Certificate of Authorization #00001670.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone **17** East (km) **530.28** North (km) **3023.96**		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) **27/20/24** Longitude (DD/MM/SS) **80/41/27**	
3. Governmental Facility Code: **0**	4. Facility Status Code: **A**	5. Facility Major Group SIC Code: **49**	6. Facility SIC(s): **4953**
7. Facility Comment :			

Facility Contact

1. Facility Contact Name: **Seth A. Nunes, Market Area Engineer**
2. Facility Contact Mailing Address... Organization/Firm: **Okeechobee Landfill Inc.** Street Address: **10800 NE 128th Avenue** City: **Okeechobee** State: **Florida** Zip Code: **34972**
3. Facility Contact Telephone Numbers: Telephone: **(863) 357-0111** ext. Fax: **(863) 357-0772**
4. Facility Contact E-mail Address: **SNunes1@wm.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 Contact Name:
2. Facility Contact Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:
3. Facility Contact Telephone Numbers: Telephone: ( ) ext. Fax: ( )
4. Facility Contact 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. ☐ Small Business Stationary Source	☐ Unknown
2. ☐ Synthetic Non-Title V Source	
3. ☒ Title V Source	
4. ☒ Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. ☐ Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. ☒ Major Source of Hazardous Air Pollutants (HAPs)	
7. ☐ Synthetic Minor Source of HAPs	
8. ☒ One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. ☐ One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. ☒ One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. ☐ Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12. Facility Regulatory Classifications Comment:	

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
Nitrogen Oxides - NO_x	**B**	**N**
Carbon Monoxide - CO	**A**	**N**
Particulate Matter - PM	**B**	**N**
Particulate Matter <10 microns - PM_{10}	**B**	**N**
Sulfur Dioxide - SO_2	**A**	**N**
Non-Methane Organic Compounds - NMOC	**B**	**N**
Volatile Organic Compounds - VOC	**B**	**N**
Total Hazardous Air Pollutants - HAP	**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

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)
   ☒ Attached, Document ID: **OLI-FI-C1** ☐ 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)
   ☒ Attached, Document ID: **OLI-FI-C2** ☐ 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)
   ☒ Attached, Document ID: **OLI-FI-C3** ☐ Previously Submitted, Date:_____

Additional Requirements for Air Construction Permit Applications

1. Area Map Showing Facility Location:
   ☐ Attached, Document ID:_____ ☒ Not Applicable (existing permitted facility)

2. Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL):
   ☒ Attached, Document ID: **Refer to Part B.**

3. Rule Applicability Analysis:
   ☒ Attached, Document ID: **OLI-FI-CC3**

4. List of Exempt Emissions Units:
   ☐ Attached, Document ID:_____ ☒ Not Applicable (no exempt units at facility)

5. Fugitive Emissions Identification:
   ☐ Attached, Document ID:_____ ☒ Not Applicable

6. Air Quality Analysis (Rule 62-212.400(7), F.A.C.):
   ☐ Attached, Document ID:_____ ☒ Not Applicable

7. Source Impact Analysis (Rule 62-212.400(5), F.A.C.):
   ☐ Attached, Document ID:_____ ☒ Not Applicable

8. Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.):
   ☐ Attached, Document ID:_____ ☒ Not Applicable

9. Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.):
   ☐ Attached, Document ID:_____ ☒ Not Applicable

10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.):
    ☐ Attached, Document ID:_____ ☒ Not Applicable

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications

1. List of Exempt Emissions Units:
   ☐ Attached, Document ID:_____ ☐ 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)
   ☐ Attached, Document ID:_____ ☒ 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)
   ☒ Attached, Document ID: **Part B**
   ☒ Not Applicable (revision application with no change in applicable requirements)

3. Compliance Report and Plan: (Required for all initial/revision/renewal applications)
   ☒ Attached, Document ID: **OLI-FI-CV3**
   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)
   ☐ Attached, Document ID:_____
   ☐ Equipment/Activities Onsite but Not Required to be Individually Listed
   ☒ Not Applicable

5. Verification of Risk Management Plan Submission to EPA: (If applicable, required for initial/renewal applications only)
   ☐ Attached, Document ID:_____ ☒ Not Applicable

6. Requested Changes to Current Title V Air Operation Permit:
   ☐ Attached, Document ID:_____ ☒ 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)

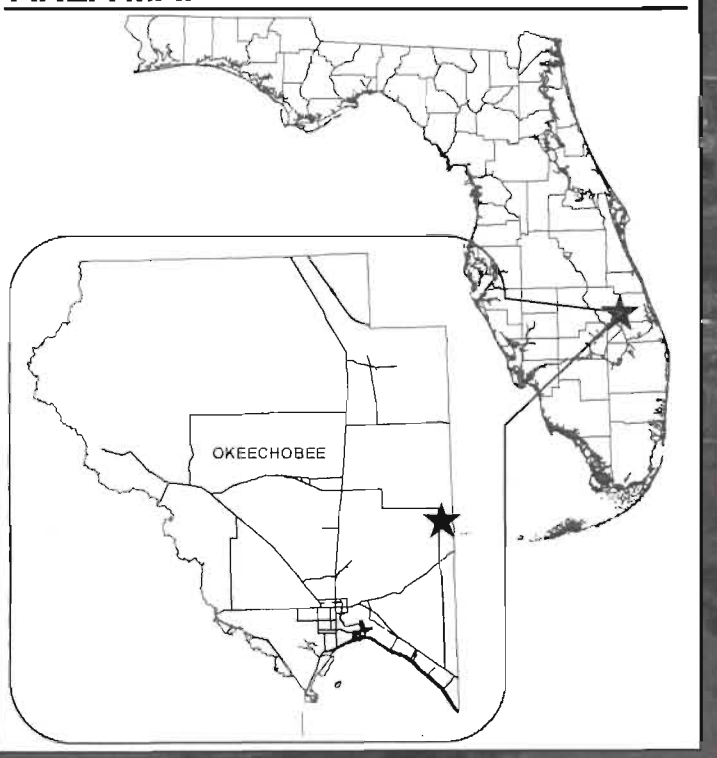
3. Hg Budget Part (DEP Form No. 62-210.900(1)(c)):
   ☐ Attached, Document ID:_____ ☐ Previously Submitted, Date:_____
   ☒ Not Applicable (not a Hg Budget unit)

Additional Requirements Comment

ATTACHMENT OLI-FI-C1

FACILITY PLOT PLAN

AREA MAP



LEGEND

- Pug Mill Location
- Approximate Limits of Liner System
- Conservation Area 1
- Conservation Area 2
- Okeechobee Landfill Property Boundary
- Permited Waste Boundary

NOTES

Boundaries are approximate.

REFERENCES

1. Approximate limit of liner system, Conservation areas, Property boundary, Permitted waste boundary, Pug Mill facility location SCS Engineers, 2009.

0 900 1,800 3,600 Feet

ATTACHMENT OLI-FI-C1a

REVIEW	BAS	2/17/2009
CHECK	BAS	2/17/2009
GIS	NRL	2/9/2009
DESIGN	BAS	2/9/2009
REV. 0	SCALE: AS SHOWN	
FILE No.	09387515A002	
PROJECT No.	093-87515	

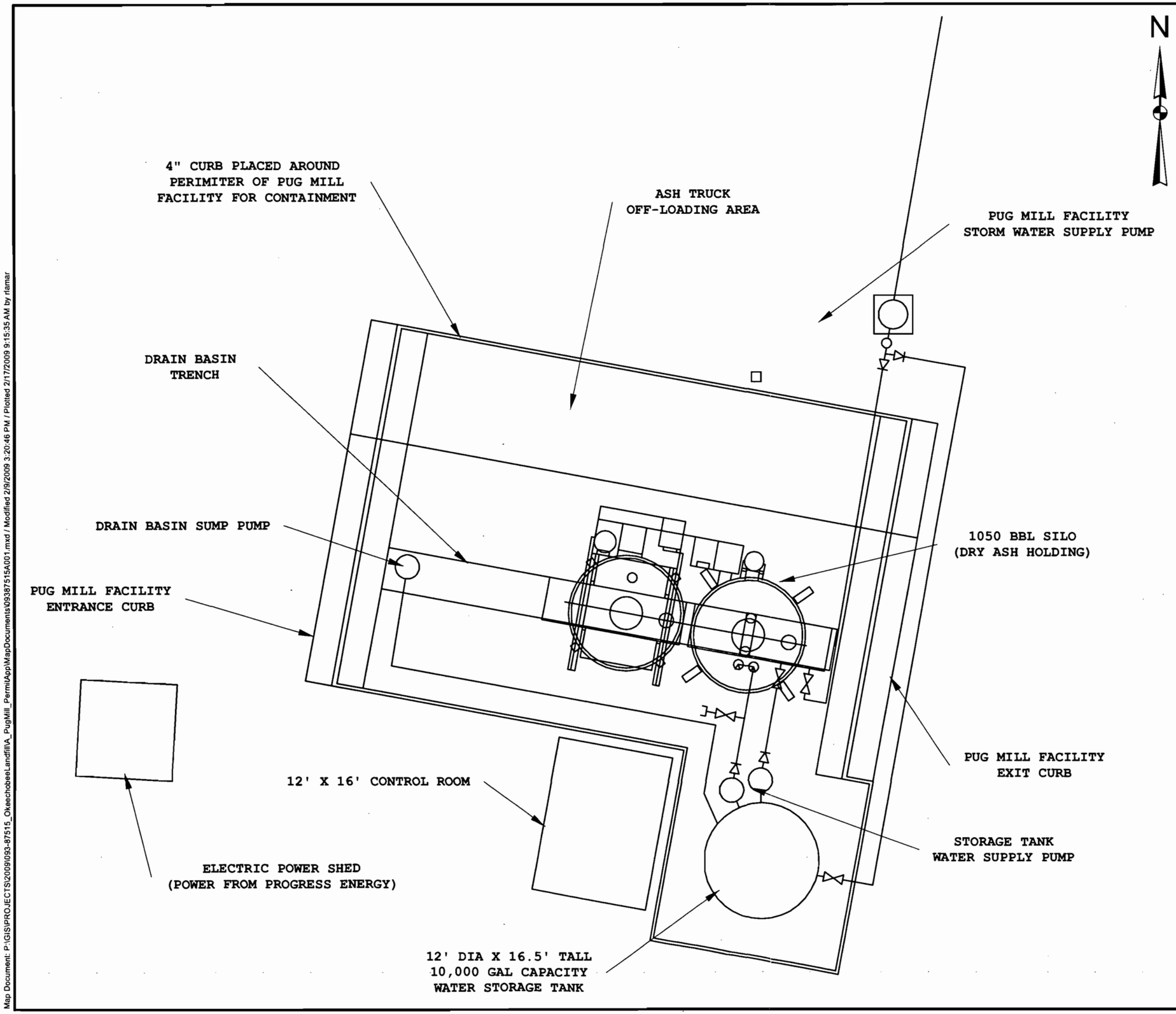
TITLE

FACILITY PLOT PLAN

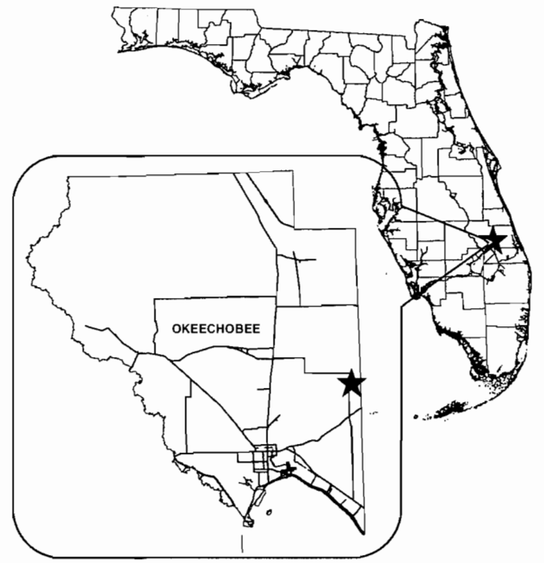
PROJECT

OKEECHOBEE LANDFILL

Golder Associates
Gainesville, Florida



AREA MAP



LEGEND

★ Pug Mill Facility Location

REFERENCES

1. Facility layout, SCS Engineers, 2009.

10 5 0 10 Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW

PROJECT

OKEECHOBEE LANDFILL

TITLE

PUG MILL FACILITY LAYOUT

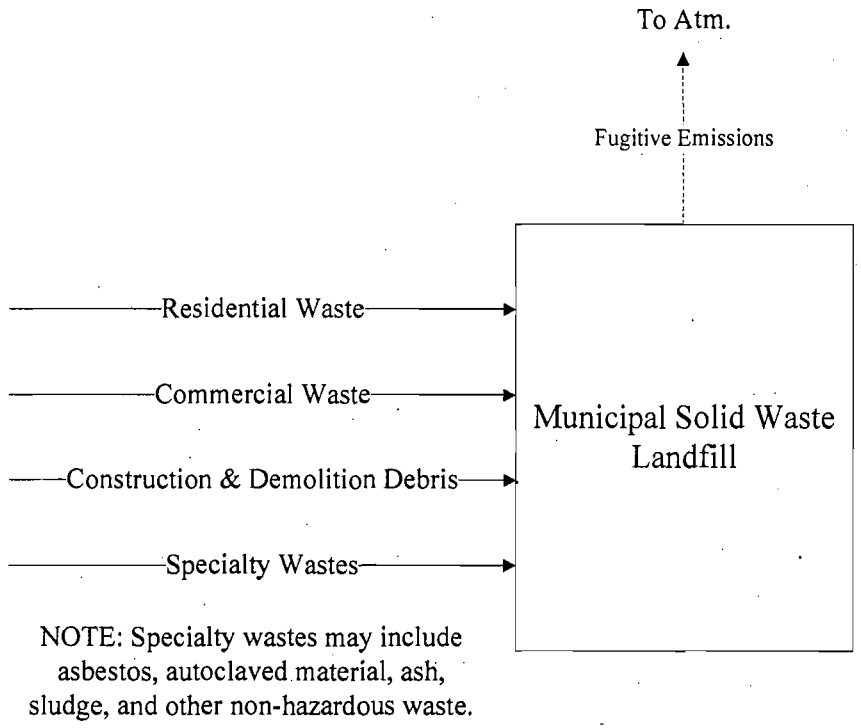
Golder Associates Gainesville, Florida

PROJECT No.	093-87515		FILE No.	09387515A001
DESIGN	BAS	2/6/2009	SCALE: AS SHOWN	REV. 0
GIS	NRL	2/9/2009	ATTACHMENT OLI-FI-C1b	
CHECK	BAS	2/17/2009		
REVIEW	BAS	2/17/2009		

Map Document: P:\GIS\PROJECTS\2009\093-87515_OkeechobeeLandfill\A_PugMill_PermitApp\MapDocuments\09387515A001.mxd / Modified 2/9/2009 3:20:46 PM / Plotted 2/17/2009 9:15:35 AM by rlamar

ATTACHMENT OLI-FI-C2

PROCESS FLOW DIAGRAM



Attachment OLI-FI-C2
Process Flow Diagram, Facility Operations
Okeechobee Landfill Inc.

Source: Golder, 2009.

Process Flow Legend
Solid/Liquid
Gas
Steam

Golder Associates

ATTACHMENT OLI-FI-C3

PRECAUTIONS TO PREVENT
EMISSIONS OF UNCONFINED PARTICULATE MATTER

ATTACHMENT OLI-FI-C3

PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

The Okeechobee Landfill has the potential to emit unconfined particulate matter as a result of the municipal solid waste handling operations of the landfill. Examples of fugitive particulate matter emissions include:

- Fugitive dust from paved and unpaved roads;
- Handling of solid waste; and
- Fugitive dust from transferring dry fly ash from pneumatic trucks to one of two fly ash storage silos located at the pug mill.

The following measures are undertaken at the landfill to minimize fugitive particulate matter emissions, in accordance with Rule 62-296.320(4)(c), Florida Administrative Code (F.A.C.):

- The use of enclosed material transfer points at the pug mill, where feasible;
- The use of water injection when transferring fly ash from the storage silo to the pug mill;
- The use of water to control dust from the unpaved roads;
- Maintenance of paved areas as needed; and
- Use of a street sweeper on paved roads.

ATTACHMENT OLI-FI-CC3

IDENTIFICATION OF APPLICABLE REQUIREMENTS

ATTACHMENT OLI-FI-CC3

IDENTIFICATION OF APPLICABLE REQUIREMENTS

Applicable rule requirements regarding the landfill remain unchanged as a result of the construction and operation of the pug mill onsite.

ATTACHMENT OLI-FI-CV3

COMPLIANCE REPORT AND PLAN

ATTACHMENT OLI-FI-CV3

COMPLIANCE REPORT AND PLAN

Okeechobee Landfill, Inc. certifies that the Okeechobee Landfill, as of the date of this application, is in compliance with each applicable requirement addressed in this application.

I, the undersigned, am responsible official as defined in Chapter 62-213, F.A.C., of the Title V source for which this report is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this report are true, accurate, and complete.

Compliance statements for this facility will be submitted on an annual basis to FDEP, before March 1st of each year.

Signature, Responsible Official

2-19-09

Date

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]
Pug Mill (EU 006 proposed)

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.)

☒ The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

☐ 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)

☒ 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).

☐ This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

☐ 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:
Pug Mill, with two (2) fly ash silos and two (2) baghouses.

3. Emissions Unit Identification Number: **006 (proposed)**

4. Emissions Unit Status Code:	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code:
C	**upon approval**	**01/31/2010**	**49**

8. Federal Program Applicability: (Check all that apply)

☐ Acid Rain Unit

☐ CAIR Unit

☐ Hg Budget Unit

9. Package Unit:
Manufacturer: **Belgrade Steel Tank Co.** Model Number: **Belle 225**

10. Generator Nameplate Rating: MW

11. Emissions Unit Comment:
Proposed Pug Mill will include two fly ash storage silos, storing approximately 700 tons per day of dry fly ash (combined average daily storage). Each storage silo will be equipped with a baghouse for particulate matter emissions control. Manufacturer and model number as indicated above refers to proposed baghouse information.

EMISSIONS UNIT INFORMATION
Section [1]
Pug Mill (EU 006 proposed)

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description: **Fabric Filter**
2. Control Device or Method Code: **127**

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:

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: **255,500 TPY fly ash (dry)**	
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:	
24 hours/day	**7** days/week
52 weeks/year	**8,760** hours/year
6. Operating Capacity/Schedule Comment: **Maximum throughput rate is based on an approximate average throughput of 700 tons of fly ash (dry) per day.**	

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: **Pug Mill**	2. Emission Point Type Code: **1**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: **Two fly ash storage silos equipped with one baghouse per silo.**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:		
5. Discharge Type Code: **V**	6. Stack Height: **60-70** feet	7. Exit Diameter: feet
8. Exit Temperature: **90°F**	9. Actual Volumetric Flow Rate: **675** 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:		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): **Waste Disposal: Site Remediation: Stabilization/Solidification: Mixing: Bins, Loading.**		
2. Source Classification Code (SCC): **5-04-101-11**	3. SCC Units: **tons material treated**	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: **255,500**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		

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:		

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
PM/PM_{10}	127	NA	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: **PM/PM$_{10}$**	2. Total Percent Efficiency of Control:
3. Potential Emissions: **0.116** lb/hour **0.253** tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: **0.01 grains/scf** Reference: **Baghouse specifications, as provided by vendor**	7. Emissions Method Code: **5**
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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions: **Refer to Part B, Table 1.**	
11. Potential, Fugitive, and Actual Emissions Comment:	

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.

<u>**Allowable Emissions**</u> 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):	

<u>**Allowable Emissions**</u> 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):	

<u>**Allowable Emissions**</u> 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):	

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 1 of 1

1. Visible Emissions Subtype: **VE20**	2. Basis for Allowable Opacity: ☒ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: **20** % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment: **Rule 62-296.320(4)**	

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: ☐ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

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 _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	☐ Rule ☐ 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:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

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)
   ☒ Attached, Document ID: **OLI-EU1-I1** ☐ 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)
   ☐ Attached, Document ID: _____ ☐ 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)
   ☒ Attached, Document ID: **OLI-EU1-I3** ☐ 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)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date _____
   ☒ 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)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date _____
   ☒ Not Applicable

6. Compliance Demonstration Reports/Records:
   ☐ Attached, Document ID: _____
   Test Date(s)/Pollutant(s) Tested: _____
   _____
   ☐ Previously Submitted, Date: _____
   Test Date(s)/Pollutant(s) Tested: _____
   _____
   ☐ To be Submitted, Date (if known): _____
   Test Date(s)/Pollutant(s) Tested: _____
   _____
   ☒ 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:
   ☐ Attached, Document ID: _____ ☒ Not Applicable

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications

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

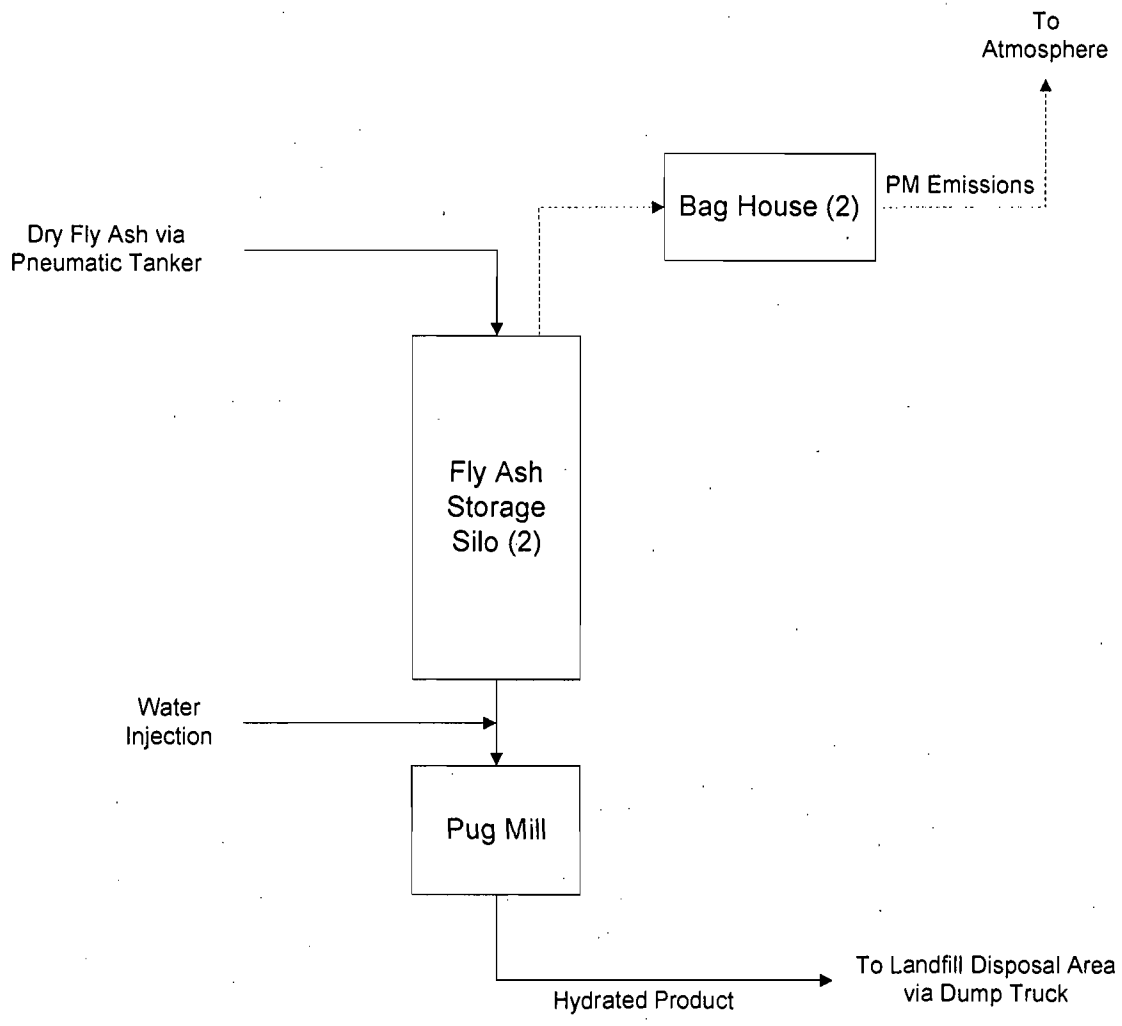
Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements:
   ☒ Attached, Document ID: **Refer to Part B.**
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

ATTACHMENT OLI-EU1-I1

PROCESS FLOW DIAGRAM



Attachment OLI-EU1-I1
Process Flow Diagram - Pug Mill
Okeechobee Landfill Inc.
OLI-EU1-I1.vsd
Source: Golder, 2009.

Process Flow Legend
Solid/Liquid
Gas
Steam

Golder Associates

ATTACHMENT OLI-EU1-I3

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

ATTACHMENT OLI-EU1-I3
CONTROL EQUIPMENT SPECIFICATIONS
PUG MILL BAGHOUSES
OKEECHOBEE LANDFILL, INC.

Parameter	Value[a]
Manufacturer	Belgrade Steel Tank Co.
Model Number	Belle 225
Type of Particulate Control	Cement Dust
Filter Media	PE 37 100% Polyester
Cleaning Method	Air Vibrator Shaker
Air Flow Rate, maximum (cfm)	675
Gas Stream Temperature (deg. F)	Ambient
Particulate Grain Loading, outlet (grain/cfm)	0.01
Pressure Drop (in. H_2O)	5
Filtering Velocity (acfm/sq ft of cloth)	3
Bag Diameter (in.)	8
Bag Length (in.)	72
No. of Bags	18
No. of Compartments	1

Footnotes:

[a] Information provided by baghouse vendor.

Abbreviations:

cfm = cubic feet per minute
deg. F = degrees Fahrenheit
grain/cfm = grain per cubic feet per minute
in. H_2O = inches of water column
acfm/sq ft of cloth = actual cubic feet per minute per square foot of cloth
in. = inches

PART B

PART B

SUPPLEMENTAL INFORMATION FOR AIR CONSTRUCTION PERMIT APPLICATION

Okeechobee Landfill Inc. (OLI) owns and operates a municipal solid waste landfill (Berman Road Landfill or landfill) located in Okeechobee, Florida. The landfill receives municipal solid waste (MSW) from residential and commercial sources, construction and demolition debris, and special wastes. Special wastes may include asbestos, autoclaved material, ash, sludge, and other non-hazardous waste, as defined by Rule 62-701.200(78), Florida Administrative Code (F.A.C.).

The landfill currently operates under Title V air operating permit 0930104-016-AV. Air emission sources at the landfill include two 3,000 standard cubic feet per minute (scfm) enclosed flares (Unit Nos. 1776 and 1698), each equipped with an EVAP unit, and a 3,000 scfm open flare (Unit No. 1495) used as a back-up system and for odor control. In addition, the landfill operates two 3,300 scfm open flares to provide odor control, under Settlement Agreement, OGC File Nos. 04-0094A and 04-0094B. The following source designations are referenced in the air operating permit:

- Emission Unit (EU) 001 – Municipal Solid Waste Landfill;
- EU 003 – 3,000 scfm enclosed flare (Unit No. 1776);
- EU 004 – 3,000 scfm open flare (Unit No. 1495);
- EU 005 – 3,000 scfm enclosed flare (Unit No. 1698);
- CD-04 – 3,300 scfm open odor control flare; and
- CD-05 – 3,300 scfm open odor control flare.

Also included in the air operating permit are miscellaneous unregulated or insignificant emission sources and/or activities.

PROPOSED CONSTRUCTION

The landfill is proposing to use a pug mill operation to hydrate ash that will be delivered to the site in sealed pneumatic tankers. The process will hydrate the dry ash to control dust emissions prior to placing the ash in the landfill. Currently, the site receives ash that is hydrated prior to delivery to the site.

The landfill will transfer the dry ash from the pneumatic tankers to one of two ash storage silos. The silos will be equipped with one baghouse each, to control potential particulate matter (PM) emissions produced during transfer. Each silo will have a pug mill located below the silo discharge so that the ash feeds directly into the mill by gravity feed. Water will be sprayed on the ash within the confines of the pug mill to hydrate the ash to an approximate 70 percent moisture content. The ash and water are mixed within the pug mill to generate a hydrated product capable of being transferred to the landfill for disposal. The hydrated product is dropped from the bottom of the pug mill directly into a dump truck that then delivers the hydrated product to the appropriate disposal area within the landfill.

Each silo will be constructed to operate independently. The average fly ash processing rate at the pug mill will be approximately 700 tons per day (TPD). The transfer time to transfer ash from the pneumatic tankers to the storage silos will be approximately 1 hour.

EMISSIONS ESTIMATES

Potential emissions resulting from the pug mill operations include PM emissions potentially occurring during the transfer of fly ash from the pneumatic tanker to the storage silo. When transferring the ash from the storage silo to the pug mill, the ash will immediately be wetted, and therefore potential PM emissions during this transfer are negligible. The process is also enclosed.

The two baghouses will be manufactured by Belgrade Steel Tank Company, Model No. Belle 225. Each baghouse will be equipped with 18 bags, which will be cleaned by way of air vibrator shaker. The maximum design air flow through each baghouse will be 675 scfm. The baghouse manufacturer has guaranteed a particulate grain loading at the baghouse outlet of 0.01 grains per standard cubic foot (grain/scf).

Table 1 includes potential hourly and annual PM emissions resulting from the pug mill operations. Because the two silos can be loaded simultaneously, the maximum potential hourly PM emissions are estimated to be 0.0579 pounds per hour per silo (lb/hr/silo), or 0.116 pounds per hour (lb/hr) total (two silos being loaded simultaneously). The maximum annual PM emissions are estimated to be 506.8 pounds per year (lb/yr), or 0.253 ton per year (TPY).

PERMIT REQUEST

Based on the estimated potential PM emissions resulting from the pug mill operations, as shown in Table 1, OLI requests that the pug mill storage silos and baghouses be considered an insignificant emissions source as defined by Rule 62-213.430(6)(b), F.A.C., which states:

> "62-213.430(6)(b) An emissions unit or activity shall be considered insignificant if all of the following criteria are met:
>
> 1. Such unit or activity would be subject to no unit-specific applicable requirement.
> 2. Such unit or activity, in combination with other units and activities proposed as insignificant, would not cause the facility to exceed any major source threshold(s) as defined in subparagraph 62-213.420(3)(c)1., F.A.C., unless it is acknowledged in the permit application that such units or activities would cause the facility to exceed such threshold(s).
> 3. Such unit or activity would neither emit nor have the potential to emit:
>
> a. 500 pounds per year or more of lead and lead compounds expressed as lead;
>
> b. 1,000 pounds per year or more of any hazardous air pollutant;
>
> c. 2,500 pounds per year or more of total hazardous air pollutants; or
>
> d. 5.0 tons per year or more of any other regulated pollutant."

In addition, OLI requests concurrent processing of the application for air construction permit and Title V air operating permit revision pursuant to the provisions of Rule 62-213.405, F.A.C., to include the pug mill as an insignificant emission source. OLI agrees to waive the processing time requirements for the air construction permit to accommodate the processing time frame of the Title V permit revision.

TABLE 1
PUG MILL ESTIMATED HOURLY AND ANNUAL PARTICULATE MATTER EMISSIONS
OKEECHOBEE LANDFILL, INC.

Condition	Activity[a] (TPD)	Activity[a] (TPY)	Estimated Emissions			
			Hourly, One Silo (lb/hr)[b]	Hourly, Two Silos (lb/hr)[b]	Annual (lb/yr)	Annual (TPY)
Potential Throughput	700	255,500	0.0579	0.116	506.8	0.253

Footnotes:

[a] Potential activity based on a throughput of approximate average of 700 tons of fly ash (dry) per day, operating continuously 8,760 hours/year.
(700 TPD) x (365 days/year) = 255,500 TPY

[b] Estimated hourly emissions based on design air flow rate of 675 cfm, and a particulate matter grain loading rate of 0.01 grains/scf, as specified by the baghouse vendor. Potentially, the two silos can be loaded simultaneously, hence the additional hourly PM emissions calculations.
(675 cfm) x (0.01 grains/scf) x (lb/7,000 grains) x (60 min/hr) = 0.0579 lb/hr x 2 silos simultaneous loading = 0.116 lb/hr

[c] Esrtimated annual emissions based on a flow rate of 675 cfm, a particulate matter grain loading rate of 0.01 grains/scf, and operating 8,760 hours per year (continuous).
(675 cfm) x (0.01 grains/scf) x (lb/7,000 grains) x (60 min/hr) x (8,760 hr/yr) x (ton/2,000 lb) = 0.253 TPY

Abbreviations:
cfm = cubic feet per minute
TPD = tons per day
TPY = tons per year
lb/hr = pounds per hour
grain/cfm = grain per cubic foot per minute