

GENERAL COMPANY INFORMATION

All applicants shall complete each item or explain in the space provided why no information is needed. Please specify "N/A" (Not Applicable) if necessary. The application will be returned to the applicant if it is deemed incomplete.

1. **COMPANY NAME AND ADDRESS THAT ARE TO APPEAR ON THE OPERATING PERMIT [NAC 445B.295.1]:**

Jungo Land and Investments, Inc.
(Name)

160 Pacific Avenue, Suite 200
(Address)

San Francisco California 94111
(City) (State) (Zip Code)

2. **Owner's Name and Address [NAC 445B.295.1]:**

Nevada Land & Resource Company, LLC
(Name)

3480 GS Richards Blvd., Suite 101
(Address)

Carson City Nevada 89703
(City) (State) (Zip Code)

3. **Source Name and Mailing Address, if different from #1 [NAC 445B.295.1]:**

SAME AS #1
(Name)

(Address)

(City) (State) (Zip Code)

4. **Physical Location of Stationary Source [NAC 445B.295.8]: (if no physical address, describe location, e.g., 4 miles south of I-80 at xx Interchange)**

Jungo Road, Humboldt County, approximately 25 miles west of Winnemucca

Township(s) 35N Range(s) 33E Section(s) 7

5. **Plant Manager or Other Appropriate Contact [NAC 445B.295.1]:**

Erin Merrill Planner
(Name) (Title)

160 Pacific Avenue, Suite 200
(Address)

San Francisco California 94111
(City) (State) (Zip Code)

415-875-1245 415-875-1154 emerill@norcalwaste.com
(Telephone #) (FAX #) (E-mail address)

GENERAL COMPANY INFORMATION (CONTINUED)

6. Responsible Official Name, Title and Address [NAC 445B.295.1]:

Michael J. Sangiacomo President and Chief Executive Officer
(Name) (Title)

160 Pacific Avenue, Suite 200
(Address)

San Francisco California 94111
(City) (State) (Zip Code)

415-875-1000 415-875-1124 msangiacomo@norcalwaste.com
(Telephone #) (FAX #) (E-mail address)

7. If records required under the operating permit will be kept at a location other than the source, specify that location [NAC 445B.295.7].

RECORDS KEPT AT SOURCE
(Name)

(Address)

(City) (State) (Zip Code)

GENERAL COMPANY INFORMATION (CONTINUED)

8. This application is submitted for (please check appropriate boxes below):

- A new Class I Operating Permit to Construct**
 - This application is for a source subject to PSD requirements (40 CFR § 52.21).
 - This application is for a source subject to the following NSPS requirements (40 CFR § 60):
40 CFR §60 Subpart WWW

 - This application is for a source subject to the following NESHAP requirements (40 CFR § 63):

- A modification of an existing Class I Operating Permit to Construct**
 - This application is for a source subject to PSD requirements (40 CFR § 52.21).
 - This application is for a source subject to the following NSPS requirements (40 CFR § 60):

 - This application is for a source subject to the following NESHAP requirements (40 CFR § 63):

- The revision of an existing Class I Operating Permit to Construct**
 - This application is for a source subject to PSD requirements (40 CFR § 52.21).
 - This application is for a source subject to the following NSPS requirements (40 CFR § 60):

 - This application is for a source subject to the following NESHAP requirements (40 CFR § 63):

9. The application must contain, if applicable:

- a. For a proposed new major source, or a proposed significant modification to an existing stationary source which is not subject to the provisions of 40 CFR §52.21, include all information as required by NAC 445B.308 to 445B.313, inclusive [NAC 445B.3363.2(b)].
- b. For stationary sources subject to the provisions regarding new source review set forth in 42 USC §§7501 - 7515, inclusive (nonattainment areas), all information required by 42 USC §7503 [NAC 445B.3363.2(b)(3)].
- c. For a proposed new major source or a proposed significant modification to an existing stationary source that is subject to the provisions of 40 CFR §52.21, include all information required by 40 CFR §52.21 [NAC 445B.3363.2(a)].

10. Will the construction occur in more than one phase? Yes No

11. If the construction will occur in more than one phase, please provide the projected date of the commencement for each phase of construction:

Phase 1: _____

Phase 2: _____

Phase 3: _____

12. For a modification of a stationary source, provide a Compliance Assurance Monitoring (CAM) plan for all emission units subject to the monitoring requirements of 40 CFR Part 64. For significant revisions provide a CAM plan for those emission units for which a significant revision to the operating permit is requested and which is required pursuant to the monitoring requirements of 40 CFR Part 64. If a CAM plan is not required, provide an explanation. [NAC 445B.295.8]

13. **Application Submittal:**
Please remove the cover page, Table of Contents and General Information page and all Attachments of the application packet. Submit the remainder of the application packet as your formal application. This should consist of, at a minimum, the Class I Application cover page, the general Company Information, and Appendices 1 through 9.

Appendix 1

EMISSION UNITS APPLICATION FORMS

**(Industrial Process/Combustion Equipment/Storage Silo/
Liquid Storage Tank/ Surface Area Disturbance)**

**INDUSTRIAL PROCESS
APPLICATION FORM
CLASS I OPERATING PERMIT TO CONSTRUCT**

Check here if this is an
alternative operating scenario

Section 1 - Equipment Description

- a. Type of equipment Municipal Solid Waste Landfill
- b. Standard Industrial Classification (SIC) Code 4953
- c. Manufacturer of equipment NA
- d. Model number NA Serial number NA *Equip. number NA
- e. Date equipment manufactured: NA
- f. Please check one: Temporary (At the same location for less than 12 months)
 Stationary (At the same location for more than 12 months)
- g. For crushers: size output setting, check one: Primary (< 4")
 Secondary (< 4" but > 1")
 Tertiary (< 1")
- h. Please check if portable: Portable (transportable or movable within the confines of the stationary source)
- i. UTM Coordinates 4,318,248 meters N; 379,550 meters E; Zone 11
(Please specify NAD 27 or NAD 83)
- j. Basic equipment dimensions (feet): L W H

*The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

- a. Maximum design capacity (tons) 58.5 million tons (106 million cubic yards)
- b. Requested operating rate (tons per day)* 4,000
- c. Requested operating time: (time of day)* 12:00 a.m. to 12:00 a.m.
Hours per day 24 Days per year 365
- d. Batch load or charge weight (tons) (if applicable) NA
- e. Total hours required to process batch or charge (if applicable) NA
- f. Maximum operating rate (tons per year) 1,460,000 tpy
- g. Requested operating rate (tons per year)* 1,460,000 tpy
- h. Type of material processed municipal solid waste, C & D debris, tires, sludge, asbestos-containing materials
- i. Minimum moisture content N/A

*Note: Please complete if other than the maximum design capacity (tons per hour and tons per year) and/or the maximum hours of operation (24 hours per day, 8760 hours per year) are being requested. The permit will be limited to these values.

**INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED**

Section 3 - Fuel Usage-NOT APPLICABLE

(This section only applies to fuel consumed/combusted within the process unit. Fuels consumed/combusted in combustion units are to be listed on the Combustion Equipment Application Form.)

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario please specify primary fuel and percentage on a maximum hourly and annual basis (if fuel blending is the primary fuel, identify percentages of each fuel blended). Attach additional information to this form if necessary.

*Firing of waste oil will require multi metals test to insure fuel is non-hazardous.

**INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED**

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters (this section must be completed)

-Complete for emissions **exhausting through a stack, chimney or vent**: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	Gas collection and control system	
Pollutant(s) Controlled	Non-methane organic compounds	
Manufacturer	In accordance with the requirements of 40 CFR §60.752(b)(2)(i) the design of the system will be submitted to the Administrator within one year from the date of recalculation of NMOC emissions equaling or exceeding 50 m <u>megagrams-egagrams</u> (55.125 tons) per year.	
Manufacturer's Guarantee (see Note 2)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: Actual cubic feet per minute		
Gas volume flow rate: Dry standard cubic feet per minute		
Unusual stack characteristics (e.g. raincap, horizontal discharge)		
		In accordance with the requirements of 40 CFR §60.752(b)(2)(ii) and Nevada Administrative Code 445B.22073.1, the collection and control system will be implemented at the landfill within 30 months of the calculated landfill NMOC emissions equaling or exceeding 50 megagrams (55.125 tons) per year, unless Tier 2 or Tier 3 sampling demonstrates the emission rate is less than 50 megagrams (55.125 tons) per year <u>becoming active</u> .

-Complete for emissions **not** exhausting through a stack, chimney or vent: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	N/A	
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 1)		
Note: Indicate the specific point(s) of emission control application for this emission unit. This must be provided as part of the process flow diagram as required in section 7 of the General Information section of the application form.		

Note 1: Specify "uncontrolled" if no pollution control device is installed.

Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

**INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED**

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

The NMOC emission rate will be recalculated annually using the procedures specified in 40 CFR 60.754.

Upon installation and commencement of operation of the gas collection and control system (within 30 months of the calculated landfill NMOC emissions equaling or exceeding 50 megagrams (55.125 tons) per year) the specified methods in 40 CFR §60.755, Compliance provisions, will be used to determine whether the gas collection system is in compliance with 40 CFR §60.752(b)(2)(ii).

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary)

(Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.

2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

The attached Dust Control Plan in Appendix 7 provides a general description of the operations at the landfill to minimize fugitive dust. The Plan also includes training for all operators and contractors to operate the landfill in a manner consistent with good air pollution control practices.

Once the collection and control system has been installed, it too will be operated in a manner consistent with good air pollution control practices.

**INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED**

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)			
Particulates as PM ₁₀			
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds (NMOC)		48.44	LandGEM model results contained in Appendix 4.
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant ¹)			
Other Regulated Pollutants (Specify ²)			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

¹A list of Hazardous Air Pollutants is contained in Attachment 4.

²Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

**COMBUSTION EQUIPMENT
APPLICATION FORM
CLASS I OPERATING PERMIT TO CONSTRUCT**

Check here if this is an
alternative operating scenario

Section 1 - Equipment Description

a.	Type of equipment <u>NA- All combustion equipment classified as IEUs</u>
b.	Standard Industrial Classification (SIC) Code _____
c.	Manufacturer of equipment _____
d.	Model number _____ Serial number _____ *Equip. number _____
e.	Date equipment manufactured: _____
f.	Please check one: <input type="checkbox"/> Temporary (At the same location for less than 12 months) <input type="checkbox"/> Stationary (At the same location for more than 12 months)
g.	Please check if portable: <input type="checkbox"/> Portable (transportable or movable within the confines of the stationary source)
h.	UTM Coordinates _____ meters N; _____ meters E; Zone 11 (Please specify NAD 27 <input type="checkbox"/> or NAD 83 <input type="checkbox"/>)
i.	Basic equipment dimensions (feet): L _____ W _____ H _____

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a.	Maximum design horsepower OUTPUT (horsepower per hour) _____ (Please provide for internal combustion engines only)
b.	Maximum design heat INPUT (million Btu per hour) _____ (Please provide for all combustion units except for internal combustion engines)
c.	*Requested operating time: time of day _____ to _____ Hours per day _____ Days per year _____ Hours per year _____

*Note: Please complete if other than the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

**COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED**

Section 3 - Fuel Usage

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btu's)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario, please specify primary fuel and percentage on a maximum hourly and annual basis. If fuel blending is the primary fuel, identify percentages of each fuel blended. Attach additional information to this form if necessary.

*Firing of waste oil will require multi-metals test to ensure fuel is non-hazardous.

**COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED**

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters. This section *must* be completed.

-Complete for emissions exhausting through a stack, chimney or vent: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 1)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack charac- teristics (e.g., raincap, horizontal discharge)		

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

**COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED**

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary)

- (Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

**COMBUSTION EQUIPMENT
APPLICATION FORM
CONTINUED**

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)			
Particulates as PM ₁₀			
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant ¹)			
Other Regulated Pollutants (Specify ²)			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

¹A list of Hazardous Air Pollutants is contained in Attachment 4.

²Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive

**STORAGE SILO
APPLICATION FORM
CLASS I OPERATING PERMIT TO CONSTRUCT**

Check here if this is an
alternative operating scenario

Section 1 - Equipment Description

a.	Type of equipment <u>NA – There will be no storage silos located at the landfill</u>
b.	Standard Industrial Classification (SIC) Code _____
c.	Manufacturer of equipment _____
d.	Model number _____ Serial number _____ *Equip. number _____
e.	Date equipment manufactured: _____
f.	Please check one: <input type="checkbox"/> Temporary (At the same location for less than 12 months) <input type="checkbox"/> Stationary (At the same location for more than 12 months)
g.	Please check if portable: <input type="checkbox"/> Portable (transportable or movable within the confines of the stationary source)
h.	UTM Coordinates _____ meters N; _____ meters E; Zone 11 (Please specify NAD 27 <input type="checkbox"/> or NAD 83 <input type="checkbox"/>)
i.	Basic equipment dimensions (feet): L _____ W _____ H _____

* The equipment number is the facility's own numbering system for this piece of equipment.

Section 2 - Design Rate/Operating Parameters

a.	Maximum design storage capacity (tons) _____
b.	Maximum loading rate (tons per hour) _____ Loading time (hours to fill) _____
c.	*Requested loading rate (tons per hour): _____ *Hours per day _____ Days per year _____ Hours per year _____
d.	Maximum unloading rate (tons per hour) _____
e.	Method of unloading (screw auger, etc.) _____
f.	Continuous or batch discharge _____
g.	Requested unloading rate (tons per hour) _____ Requested unloading rate (tons per year) _____
h.	Requested unloading time: Hours per day _____ Time of day _____ to _____ Hours per day _____ Days per year _____ Hours per year _____
i.	Material type processed (lime, cement, flyash, etc.) _____

*Note: Please complete if other than the maximum loading rate (tons per hour), and/or the maximum hours of operation (24 hours per day, 8760 hours per year), are being requested. The permit will be limited to these values.

Section 3 –Reserved

**STORAGE SILO
APPLICATION FORM
CONTINUED**

Section 4 - Pollution Control Equipment (this section *must* be completed)

-Complete for emissions exhausting through a silo stack, chimney or vent during silo loading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 2)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack charac- teristics (e.g., raincap, horizontal discharge)		

-Complete for emissions exhausting through a silo stack, chimney or vent during silo unloading process: (baghouse, wet scrubber, cyclone, no control, etc.)

	Control #1	Control #2
Type of Control: (See Note 1)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 2)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack charac- teristics (e.g., raincap, horizontal discharge)		

Note 1: Specify "uncontrolled" if no pollution control device is installed.

Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

**STORAGE SILO
APPLICATION FORM
CONTINUED**

Section 4 - Pollution Control Equipment (continued)

-Complete for emissions not exhausting through a stack during silo unloading process: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 1)		

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

**STORAGE SILO
APPLICATION FORM
CONTINUED**

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary)

1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

**STORAGE SILO
APPLICATION FORM
CONTINUED**

Section 7 - Requested Emission Limits - Silo Loading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)			
Particulates as PM ₁₀			
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant ¹)			
Other Regulated Pollutants (Specify ²)			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

¹A list of Hazardous Air Pollutants is contained in Attachment 4.

²Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

**STORAGE SILO
APPLICATION FORM
CONTINUED**

Section 7 (continued) - Requested Emission Limits - Silo Unloading

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)			
Particulates as PM ₁₀			
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant ¹)			
Other Regulated Pollutants (Specify ²)			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

¹A list of Hazardous Air Pollutants is contained in Attachment 4.

²Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

**LIQUID STORAGE TANK
APPLICATION FORM
CLASS I OPERATING PERMIT TO CONSTRUCT**

Check here if this is an
alternative operating scenario

Section 1 - Equipment Description

a. Manufacturer of tank NA- Storage tank at the landfill is classified as IEU

b. SIC Code _____ c. Liquid Stored _____

d. Date of installation _____

e. Tank Dimensions:
Shell height (feet) _____ Shell diameter (feet) _____
Liquid height (feet) _____ Average liquid height (feet) _____
Volume (gallons) _____

f. Paint characteristics:
Shell color/shade (please check one) White/white Aluminum/specular
 Aluminum/diffuse Gray/light
 Gray/medium Red/primer Shell
condition _____

g. Roof color/shade (please check one) White/white Aluminum/specular
 Aluminum/diffuse Gray/light
 Gray/medium Red/primer
Roof condition _____

h. Roof characteristics: Type (please check one):
 Cone Dome External floating roof Internal floating roof
For cone or dome roof, specify height (feet) _____
For cone roof, specify slope (ft/ft) _____
For dome roof, specify radius (feet) _____
Tank construction: welded riveted
Primary rim seal: vapor-mounted liquid-mounted mechanical shoe
Secondary seal: weather shield rim-mounted none
Roof type: pontoon double deck
Roof fittings: access hatch gauge-float well gauge-hatch/sample well
 rim vent roof drains roof leg unslotted guide pole wells
 slotted guidepole/sample wells vacuum breaker

j. For internal floating roof, please complete the following:
Primary seal: resilient foam-filled wiper seals other (please specify) _____
Secondary seal: resilient foam-filled wiper seals other (please specify) _____
Roof fittings: access hatch gauge-float well gauge-hatch/sample well
 rim vent roof drains roof leg
 unslotted guide pole wells slotted guidepole/sample wells
 vacuum breaker column wells (# of columns _____)
 Ladder wells stub drains

k. True vapor pressure of liquid (psia) _____ l. Reid vapor pressure of liquid (psi) _____

m. UTM Coordinates _____ meters N; _____ meters E; Zone 11
(Please specify NAD 27 or NAD 83)

**LIQUID STORAGE TANK
APPLICATION FORM
CONTINUED**

Section 2 - Operating Parameters

a.	Maximum throughput (gallons per year) _____
b.	Method of filling (submerged fill) _____

Section 3 - Reserved

Section 4 - Pollution Control Equipment (this section must be completed)

-Complete for emissions exhausting through a stack, chimney or vent: (baghouse, wet scrubber, cyclone, internal floating roof, no control, etc.)

	Control #1	Control #2
Type of Control: (Specify "uncontrolled" if no pollution control device is installed)		
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 1)		
Stack height (feet from ground level)		
Stack inside diameter (feet)		
Temperature (°F) at design capacity		
Stack exit velocity (feet per second)		
Gas volume flow rate: actual cubic feet per minute		
Gas volume flow rate: dry standard cubic feet per minute		
Unusual stack characteristics (e.g., raincap, horizontal discharge)		

Note 1: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

**LIQUID STORAGE TANK
APPLICATION FORM
CONTINUED**

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

(Eg., Emissions from this unit will be monitored by CEMS for NO_x and CO. Emissions for all other pollutants will be monitored periodically by annual stack test, daily opacity readings using Method 9 with weekly O&M baghouse checks and daily ΔP readings.)

Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary)

- (Eg., 1. At all times, including startup, shutdown and malfunction, the emission unit will be operated in a manner consistent with good air pollution control practices.
2. Water spray nozzles will be checked to verify proper operation and adequate water flow is present.)

**LIQUID STORAGE TANK
APPLICATION FORM
CONTINUED**

Section 7 - Requested Emission Limits

Pollutant	Potential to Emit (pounds/hour*)	Potential to Emit (tons/year)	Calculation (including reference) on Which Emissions Information is Based (attach supporting information if necessary)
Total Particulate Matter (PM)			
Particulates as PM ₁₀			
Sulfur Dioxide			
Carbon Monoxide			
Oxides of Nitrogen			
Volatile Organic Compounds			
Lead			
Hydrogen Sulfide			
Hazardous Air Pollutants (Specify Each Pollutant ¹)			
Other Regulated Pollutants (Specify ²)			

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

¹A list of Hazardous Air Pollutants is contained in Appendix 4.

²Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS

**SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS**

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (<i>State Only Requirement</i>) Emissions of Particulate Matter - Fuel Burning Equipment</p> <p>1. Source may not cause or permit the emission of PM₁₀ resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas:</p> <p>a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat.</p> <p>b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{0.231}$</p> <p>c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.568}$</p> <p>2. For the purposes of paragraphs b and c of subsection 1:</p> <p>a. "X" means the operating rate in million Btu's per hour.</p> <p>b. "Y" means the allowable rate of emission in pounds per million Btu's.</p> <p>SIP 445.731(1)(a) - (<i>Federally Enforceable SIP Requirement</i>) Particulate Matter - Fuel Burning Equipment Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table:</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: left;">Heat input in millions of</th> <th style="text-align: left;">Maximum allowable emission of particulate matter in pounds per hour per million</th> </tr> </thead> <tbody> <tr> <td>Up to and including 10</td> <td>0.600</td> </tr> <tr> <td>100</td> <td>0.352</td> </tr> <tr> <td>1,000</td> <td>0.206</td> </tr> <tr> <td>10,000</td> <td>0.091</td> </tr> <tr> <td>100,000</td> <td>0.025</td> </tr> </tbody> </table>	Heat input in millions of	Maximum allowable emission of particulate matter in pounds per hour per million	Up to and including 10	0.600	100	0.352	1,000	0.206	10,000	0.091	100,000	0.025	<p><i>Landfill is not a fuel-burning source</i></p>	<p>NA</p>	<p>NA</p>
Heat input in millions of	Maximum allowable emission of particulate matter in pounds per hour per million														
Up to and including 10	0.600														
100	0.352														
1,000	0.206														
10,000	0.091														
100,000	0.025														
<p>SIP 445.731(1)(b) - (<i>Federally Enforceable SIP Requirement</i>) Particulate Matter - Fuel Burning Equipment For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{0.231}$ Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.</p>	<p><i>Landfill is not a fuel-burning source</i></p>	<p>NA</p>	<p>NA</p>												
<p>SIP 445.731(1)(c) - (<i>Federally Enforceable SIP Requirement</i>) Particulate Matter - Fuel Burning Equipment For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation: $Y = 17.0X^{-0.568}$ where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.</p>	<p><i>Landfill is not a fuel-burning source</i></p>	<p>NA</p>	<p>NA</p>												
<p>SIP 445.731(3) - (<i>Federally Enforceable SIP Requirement</i>) Particulate Matter - Fuel Burning Equipment Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.</p>	<p><i>Landfill is not a fuel-burning source</i></p>	<p>NA</p>	<p>NA</p>												

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>NAC 445B.22033, 445B.22027 (<i>State Only Requirement</i>) <u>Emissions of Particulate Matter - Sources Not Otherwise Limited</u></p> <ol style="list-style-type: none"> 1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM₁₀ to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3. 2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$ 3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$ 4. For the purposes of subsections 2 and 3: <ol style="list-style-type: none"> (a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour. 	<p><i>Landfill is limited by NAC 445B.22037</i></p>	<p>NA</p>	<p>NA</p>
<p>SIP 445.732 - (<i>Federally Enforceable SIP Requirement</i>) <u>Particulate Matter - Industrial Sources</u></p> <p>Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section.</p> <p>SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation: $E = 0.0193P^{0.67} (4.10P^{0.67})$ "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.</p>	<p><i>Landfill is limited by NAC 445B.22037</i></p>	<p>NA</p>	<p>NA</p>
<p>SIP 445.732 (3) - (<i>Federally Enforceable SIP Requirement</i>) <u>Particulate Matter - Industrial Sources</u></p> <p>When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11} - 18.14 (55P^{0.11} - 40)$ "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.</p>	<p><i>Landfill is limited by NAC 445B.22037</i></p>	<p>NA</p>	<p>NA</p>
<p>NAC 445B.2204, 445B.22043, 445B.22047 (<i>State Only Requirement</i>) <u>Sulfur Emissions - Fuel Burning Equipment</u></p> <ol style="list-style-type: none"> 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: $Y = 0.7X$ 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, $Y = 0.4X$ Solid Fuel, $Y = 0.6X$ Combination, $Y = (L(0.4) - S(0.6))/(L + S)$ 4. For the purposes of subsections 2 and 3: <ol style="list-style-type: none"> (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: <ol style="list-style-type: none"> (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel. 	<p><i>Landfill is not a fuel-burning source</i></p>	<p>NA</p>	<p>NA</p>

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>SIP Article 8.1 and 8.2 (<i>Federally Enforceable SIP Requirement</i>) <u>Sulfur Emissions - Fuel Burning Equipment</u> 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: $Y = 1.26X$ ($Y = 0.7X$) "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.</p>	<p><i>Landfill is not a fuel-burning source</i></p>	<p>NA</p>	<p>NA</p>
<p>SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations:</p> <p style="text-align: center;"> $\frac{\text{Liquid Fuel}}{Y = 0.7X} \quad (Y = 0.4X) \quad \frac{\text{Solid Fuels}}{Y = 1.1X} \quad (Y = 0.6X) \quad \frac{\text{Combination Fuel}}{Y = L(0.7) + S(1.1)} \quad L + S$ </p> <p>"X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel.</p> <p>8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.</p>	<p><i>Landfill is not a fuel-burning source</i></p>	<p>NA</p>	<p>NA</p>
<p>NAC 445B.2204, 445B.22043, 445B.2205 (<i>State Only Requirement</i>) <u>Other Processes Which Emit Sulfur</u> 1. Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ 2. For the purposes of subsection 1: (a) "E" means the allowable sulfur emission in pounds per hour. (b) "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour.</p>	<p><i>Landfill does not emit sulfur</i></p>	<p>NA</p>	<p>NA</p>
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>) <u>Other Sulfur Emitting Processes</u> SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904}$ ($0.292P^{0.904}$) When E is equal to or greater than 5 kilograms (10 pounds) per hour. Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.</p>	<p><i>Landfill does not emit sulfur</i></p>	<p>NA</p>	<p>NA</p>
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>) <u>Other Sulfur Emitting Processes</u> SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.</p>	<p><i>Landfill does not emit sulfur</i></p>	<p>NA</p>	<p>NA</p>

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>NAC 445B.22017 (<i>State Only Requirement</i>) <u>Maximum Opacity of Emissions</u> 1. Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods: (a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60. (b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §60.13(h). 2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.</p>	<p>NA</p>	<p>See NAC 445B.22037</p>	<p>Will Comply</p>
<p>SIP 445.721 (<i>Federally Enforceable SIP Requirement</i>) <u>Visible Emissions from Stationary Sources</u> These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.</p>	<p>NA</p>	<p>See NAC 445B.22037</p>	<p>Will Comply</p>

**SURFACE AREA DISTURBANCE
APPLICATION FORM
CLASS I OPERATING PERMIT TO CONSTRUCT**

1. Project Name Jungo Disposal Site

2. Surface Area Disturbance Location:

Overall disturbance location description:

Township 35N ; Range 33E ; Section 7 ;

Township _____ ; Range _____ ; Section _____ ;

Township _____ ; Range _____ ; Section _____ ;

Township _____ ; Range _____ ; Section _____ ;

Township _____ ; Range _____ ; Section _____ ;

Township _____ ; Range _____ ; Section _____ ;

Township _____ ; Range _____ ; Section _____ ;

Township _____ ; Range _____ ; Section _____ ;

3. Indicate the total number of acres to be disturbed for the project 634 total acres, 560 acres for footprint

4. Nevada Administrative Code 445B.22037 requires fugitive dust to be controlled (regardless of the size or amount of acreage disturbed), and requires an ongoing program, using best practical methods, to prevent particulate matter from becoming airborne. All activities which have the potential to adversely affect the local air quality must implement all appropriate measures to limit controllable emissions. Appropriate measures for dust control may consist of a phased approach to acreage disturbance rather than disturbing the entire area all at once; using wet suppression through such application methods as water trucks or water sprays systems to control wind blown dust; the application of soil binding agents or chemical surfactant to roadways and areas of disturbed soil; as well as the use of wind-break or wind-limiting fencing designed to limit wind erosion of soils.

5. Please include a dust control plan in Appendix 7 if the total number of acres to be disturbed in number 3 above equals or exceeds 20 acres. The dust control measures discussed above should be considered in the preparation of the required dust control plan. Two documents entitled "SAD Dust Control Plan Preparation Guidelines" and "SAD Fugitive Dust Control Plan" can be downloaded at www.ndep.nv.gov/bapc under Downloads. The acceptance of the dust control plan by the Bureau of Air Pollution Control does not limit the permit holder's need to control fugitive dust from the disturbance and its related activities, nor from putting into effect an ongoing program for using the best practical methods of dust control.

Appendix 2

INSIGNIFICANT ACTIVITY INFORMATION FORM

Instructions

Attachment 1 contains the Approved List of Insignificant Activities. Attachment 3 contains the List of Trivial Activities. Trivial activities are exempted from consideration. **PLEASE RESPOND ON THE INSIGNIFICANT EMISSION UNITS INFORMATION FORM TO SECTIONS 1 THROUGH 4, FOR EACH INSIGNIFICANT EMISSION UNIT** [NAC 445B.295.8].

- Section 1. List all insignificant activities that are exempt pursuant to NAC 445B.288.2(a) through (h), and list the appropriate section that provides for the exemption. Provide information sufficient to show that the exemption applies (a copy of NAC 445B.288.2 is provided in Attachment 2).
- Section 2. List all insignificant activities that are exempted because they are on the list approved and maintained by the Director pursuant to NAC 445B.288.4. Provide information sufficient to show that the exemption applies.
- Section 3. List all proposed insignificant activities that are not already contained in the list in Attachment 1. Provide sufficient description of activities, and all emission calculations and references. The list of proposed insignificant activities must also be submitted, under separate cover, to the Director for his review and approval.
- Section 4. Calculate the maximum uncontrolled emissions for insignificant activities listed under Sections 1 through 3. Emissions calculations must be based on the maximum design throughput, maximum design production rate, maximum design heat input rate value, no controls, and 8760 hours per year of operation, unless otherwise indicated in NAC 445B.288.2 or on the list of approved insignificant activities provided in Attachment 1.

Section 1 - List All Emission Units that are Insignificant Activities Pursuant to NAC 445B.288.2(a) through (h) (see Attachment 2 for regulation).

Emission Unit	Exemption Regulation (Example - NAC 445B.288.2(b))	Reason Exemption Applies
Diesel storage tank, 12,000 gallon capacity	NAC 445B.288.2(d)	<40,000 gallons, also not subject to NSPS

Section 2 - List All Emission Units Proposed as Insignificant Activities Pursuant to List Approved by the Director (see Attachment 1 - List of Approved Insignificant Activities)

Emission Unit	Reason Exemption Applies
N/A	

Section 3 - List All Emission Units Proposed as Insignificant Activities and Not Otherwise Listed in Section 1 or Section 2 (NAC 445B.288.4). Proposed insignificant activities from this Section must be submitted, under separate cover, to the Director for his approval. The submittal must include a sufficient description of the emission unit(s), all emissions calculations, and references.

Emission Unit
N/A

Section 4 -Emissions Calculations - Insignificant Emission Units/Activities

Emissions calculations for each insignificant activity listed in Sections 1 through 3 above must be provided and included in Appendix 4. Emissions calculations must be based on the maximum design throughput, maximum design production rate or maximum design heat input rate value of the emission unit or activity. No consideration for emissions reduction from pollution controls or limits on the hours of operation or other operational constraints may be allowed unless otherwise approved by the Director or as indicated in NAC 445B.288.3 or on the list provided in Attachment 1.

Appendix 3

FACILITY-WIDE APPLICABLE REQUIREMENTS

Instructions

Complete Table 1 provided in Appendix 3. Table 1 contains the general applicable requirements for the facility. In addition provide the following:

1. List, describe and cite all specific applicable requirements as defined in NAC 445B.019 (e.g., SIP, NAC, NSPS, NESHAPS, 112(r), acid rain, stratospheric ozone, etc.). [NAC 445B.3363.1(g)]
2. Explain any proposed exemption from any specific applicable requirement. [NAC 445B.295.1(f)]
3. Describe methods for determining compliance with each specific applicable requirement. [NAC 445B.295.2(g)]

**TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS**

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>Nevada Revised Statute (NRS) 445B.470 (<i>State Only Requirement</i>) <u>Prohibited Acts</u> Source shall not knowingly:</p> <ol style="list-style-type: none"> 1. Violate any applicable provision, the terms or conditions of any permit or any provision for the filing of information; 2. Fail to pay any fee; 3. Falsify any material statement, representation or certification in any notice or report; or 4. Render inaccurate any monitoring device or method, required pursuant to the provisions of NRS 445B.100 to 445B.450, inclusive, or 445B.470 to 445B.640, inclusive, or any regulation adopted pursuant to those provisions. 	NA	Annual Certification	Will Comply
<p>NAC 445B.22013 (<i>State Only Requirement</i>) <u>Prohibited Discharge</u> Source shall not cause or permit the discharge into the atmosphere from any stationary source of any hazardous air pollutant or toxic regulated air pollutant that threatens the health and safety of the general public, as determined by the director.</p>	NA	Annual Certification	Will comply
<p>NAC 445B.225 (<i>State Only Requirement</i>) <u>Prohibited Conduct: Concealment of Emissions</u> Source shall not install, construct, or use any device which conceals any emission without reducing the total release of regulated air pollutants to the atmosphere.</p>	NA	Annual Certification	Will comply
<p>State Implementation Plan (SIP) Article 2.2 (<i>Federally Enforceable State Implementation Plan (SIP) Requirement</i>) <u>Circumvention</u> 2.2.1 - Except for the sole purpose of reducing the odor of an emission, Source shall not install, construct, or use any device which conceals any emission without resulting in a reduction in the total release of air contaminants to the atmosphere.</p>	NA	Annual Certification	Will comply
<p>NAC 445B.326.1 (445.7133.1) <i>Federally Enforceable Part 70 Program</i> <u>Assertion of Emergency as Affirmative Defense to Action for Noncompliance</u> Source may assert an affirmative defense to an action brought for noncompliance with a technology-based emission limitation contained in the Operating Permit if the holder of the Operating Permit demonstrates through signed, contemporaneous operating logs or other relevant evidence that:</p> <ol style="list-style-type: none"> a. An emergency occurred as defined in 445B.056 and the holder of the Operating Permit can identify the cause of the emergency; b. The facility was being properly operated at the time of the emergency; c. During the emergency, the holder of the Operating Permit took all reasonable steps to minimize excess emissions; and d. The holder of the Operating Permit submitted notice of the emergency to the director within 2 working days after the emergency. The notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken to restore the normal operation of the facility. 	NA	Relevant Records	NA
<p>NAC 445B.315.2.h (445.7112.2.h) <i>Federally Enforceable Part 70 Program</i> Source shall provide the Bureau of Air Quality, within a reasonable time, with any information that the Bureau of Air Quality requests in writing to determine whether cause exists for modifying, revoking and reissuing, reopening and revising or terminating this Operating Permit or to determine compliance with the conditions of this Operating Permit.</p>	NA	NA	Will comply, if triggered
<p>NAC 445B.315.i (445.7145, 445.7112.2.i) <i>Federally Enforceable Part 70 Program</i> Source shall pay fees to the Bureau of Air Quality in accordance with the provisions set forth in NAC 445B.327 and 445B.331.</p>	NA	Annual fees	Will comply

**TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS**

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>NAC 445B.315.2.k (445.7112.2.k) <u>Federally Enforceable Part 70 Program</u> A responsible official of Source shall certify that, based on information and belief formed after reasonable inquiry, the statements made in any document required to be submitted by any condition of an Operating Permit are true, accurate and complete.</p> <p>40 CFR 52.21(r)(4) (<u>Federally Enforceable PSD Program</u>) At such time that Source becomes a major stationary source or major modification solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of 40 CFR Part 52.21 shall apply to the source or modification as though construction had not yet commenced on the source or modification.[]</p>	NA	<i>Certification of truth and accuracy</i>	<i>Will comply</i>
	<i>Facility is not a major source when controlled</i>	NA	<i>Will comply, if triggered</i>
<p>(NAC 445B.252) (<u>State Only Requirement</u>) <u>Testing and Sampling</u></p> <p>1. To determine compliance with NAC 445B.001 (445.430) to 445B.395 (445.846), inclusive, before the approval or the continuance of an Operating Permit or similar class of permits, the director may either conduct or order the owner of any stationary source to conduct or have conducted such testing and sampling as the director determines necessary. Testing and sampling or either of them must be conducted and the results submitted to the director within 60 days after achieving the maximum rate of production at which the affected facility will be operated, but not later than 180 days after initial startup of the facility and at such times as may be required by the director.</p> <p>2. Tests of performance must be conducted and data reduced in accordance with the methods and procedures of the test contained in each applicable subsection of this section unless the director:</p> <ol style="list-style-type: none"> Specifies or approves, in specific cases, the use of a method of reference with minor changes in methodology; Approves the use of an equivalent method; Approves the use of an alternative method, the results of which he has determined to be adequate for indicating whether a specific stationary source is in compliance; or Waives the requirement for tests of performance because the owner or operator of a stationary source has demonstrated by other means to the director's satisfaction that the affected facility is in compliance with the standard. <p>3. Tests of performance must be conducted under such conditions as the director specifies to the operator of the plant based on representative performance of the affected facility. The owner or operator shall make available to the director such records as may be necessary to determine the conditions of the test of performance. Operations during periods of startup, shutdown, and malfunction must not constitute representative conditions of a test of performance unless otherwise specified in the applicable standard.</p> <p>4. The owner or operator of an affected facility shall give notice to the director 30 days before the test of performance to allow the director to have an observer present. A written testing procedure for the test of performance must be submitted to the director at least 30 days before the test of performance to allow the director to review the proposed testing procedures.</p> <p>5. Each test of performance must consist of at least three separate runs using the applicable method for that test. Each run must be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the runs apply. In the event of forced shutdown, failure of an irreplaceable portion of the sampling train, extreme meteorological conditions, or other circumstances with less than three valid samples being obtained, compliance may be determined using the arithmetic mean of the results of the other two runs upon the director's approval.</p> <p>6. All testing and sampling will be performed in accordance with recognized methods as specified by the director.</p> <p>7. The cost of all testing and sampling and the cost of all sampling holes, scaffolding, electric power, and other pertinent allied facilities as may be required and specified in writing by the director must be provided and paid for by the owner of the stationary source.</p> <p>8. All information and analytical results of testing and sampling must be certified as to their truth and accuracy and as to their compliance with all provisions of these regulations, and copies of these results must be provided to the director no later than 60 days after the testing or sampling, or both.</p>	<i>Other than for insignificant activities, no emission limitation under NAC 445B.001 to 445B.3689 applies for which testing or sampling would be required.</i>	NA	<i>Will comply, if triggered</i>

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>NAC 445B.22067 (<i>State Only Requirement</i>) <u>Open Burning</u> The open burning of any combustible refuse, waste, garbage, oil, or for any salvage operations, except as specifically exempted, is prohibited. Specific exemptions from open burning are described in NAC 445B.22067.2.</p>	<p><i>Facility will not conduct open burning</i></p>	<p>NA</p>	<p>NA</p>
<p>SIP Article 5.1 (<i>Federally Enforceable SIP Requirement</i>) <u>Open Burning</u> The open burning of any combustible refuse, waste, garbage, oil fires, or for any salvage operations, except as specifically exempted, is prohibited. Specific exemptions from open burning are described in SIP Articles 5.2, 5.2.1, 5.2.2, 5.2.3, 5.2.4 and 5.2.5.</p>	<p><i>Facility will not conduct open burning</i></p>	<p>NA</p>	<p>NA</p>
<p>NAC 445B.22087 (<i>State Only Requirement</i>) <u>Odors</u> Source may not discharge or cause to be discharged, from any stationary source, any material or regulated air pollutant which is or tends to be offensive to the senses, injurious or detrimental to health and safety, or which in any way interferes with or prevents comfortable enjoyment of life or property.</p>	<p>NA</p>	<p><i>Recordkeeping – Records of public complaints and corrective action</i></p>	<p><i>Will comply</i></p>
<p>SIP Article 10 (<i>Federally Enforceable SIP Requirement</i>) <u>Odors</u> 10.1.1 - Source shall not discharge, or cause to be discharged from any source any material or air contaminant which is, or tends to be, offensive to the senses, injurious or detrimental to health and safety, or which in any way interferes with or prevents the comfortable enjoyment of life or property.</p>	<p>NA</p>	<p><i>Recordkeeping – Records of public complaints and corrective action</i></p>	<p><i>Will comply</i></p>

**TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS**

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>NAC 445B.22093 (<i>State Only Requirement</i>) <u>Organic Solvents and Other Volatile Compounds</u></p> <ol style="list-style-type: none"> 1. Solvents or other volatile compounds such as paints, acids, alkalies, pesticides, fertilizers, and manure must be processed, stored, used, and transported in such a manner and by such means as to minimize the tendency to evaporate, leak, escape, or be otherwise discharged into the ambient air causing or contributing to air pollution. If methods of control are available and feasible effectively to reduce the contribution to air pollution from evaporation, leakage, or discharge, as determined by the director, the installation and use of such methods, devices, or equipment for control is mandatory. 2. Source may not place, store, or hold in any new reservoir, stationary tank or other container with a capacity equal to or greater than 40,000 gallons any gasoline, petroleum distillate, or other volatile organic compound having a vapor pressure of 1.5 lb/square inch absolute or greater under actual storage conditions unless the tank, reservoir, or other container is a pressure tank maintaining working pressure sufficient at all times to prevent loss of vapor or gas to the atmosphere or is equipped with one of the following devices properly installed, in good working order, and in operation: <ol style="list-style-type: none"> a. A floating roof which consists of a pontoon type or double-deck roof which rests on the surface of the liquid contents and is equipped with a seal to close the space between the roof eave and tank wall or a vapor balloon or a vapor dome designed in accordance with accepted standards of the petroleum industry. This control equipment is not permitted if the gasoline or petroleum distillate has a vapor pressure of 11 lb/square inch absolute or greater under actual conditions. All gauging and sampling devices for tanks must be gas tight except when gauging or sampling is taking place. b. Other equipment proven to be of equal efficiency for preventing discharge of gases and vapors to the atmosphere. 3. Any tank for the storage of any other petroleum or volatile organic compound which is constructed or extensively remodeled on or after November 7, 1975, must be equipped with a submerged fill pipe or the equivalent, as approved by the director, for control of emissions. 4. All facilities for dock loading of products consisting of petroleum or other volatile organic compounds having a vapor pressure of 1.5 lb/square inch absolute or greater at loading pressure must have facilities for submerged filling by submerged fill pipe or an acceptable equivalent, for the control of emissions. 	<p><i>Facility will not operate any reservoir, stationary tank or other container with a capacity equal to or greater than 440,000 gallons</i></p>	<p><i>Recordkeeping</i></p>	<p><i>Will comply</i></p>
<p>SIP Article 9 (<i>Federally Enforceable SIP Requirement</i>) <u>Organic Solvent, other Volatile Compounds</u></p> <p>9.1 - Materials such as, but not limited to, solvents or other volatile compounds such as paints, acids, alkalies, pesticides, fertilizers, and manure shall be processed, stored, used, and transported in such a manner and by such means as to minimize the tendency to evaporate, leak, escape, or be otherwise discharged into the ambient air causing or contributing to air pollution; and where control methods are available and feasible effectively to reduce the contribution to air pollution from evaporation, leakage, or discharge, as determined by the Director, the installation and use of such control methods, devices, or equipment shall be mandatory.</p>	<p>NA</p>	<p><i>Recordkeeping</i></p>	<p><i>Will comply</i></p>
<p>SIP Article 9.2 (<i>Federally Enforceable SIP Requirement</i>) <u>Storage Containers Equal to or Greater than 150 kiloliters (40,000 Gallons)</u></p> <p>9.2.1 - Source shall not place, store, or hold in any new reservoir, stationary tank or other container any gasoline, petroleum distillate, or other volatile organic compound having a vapor pressure of 1,055 kilograms per square meter (1.5 lb/square inch absolute) or greater (under actual storage conditions) unless such tank, reservoir, or other container is a pressure tank maintaining working pressure sufficient at all times to prevent vapor or gas loss to the atmosphere or is equipped with one of the following vapor loss control devices (see 9.2.1, 9.2.1.2) properly installed, in good working order, and in operation.</p>	<p><i>Facility will not own or operate storage containers equal to or greater than 40,000 gallons</i></p>	<p>NA</p>	<p>NA</p>

**TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS**

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>9.2.1.1 - A floating roof which consists of a pontoon type or double-deck roof which rests on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof eave and tank wall; or a vapor balloon or a vapor dome, designed in accordance with accepted standards of the petroleum industry. This control equipment shall not be permitted if the gasoline or petroleum distillate has a vapor pressure of 7,734 kilograms (11 lb/square inch absolute) or greater under actual conditions. All tank gauging and sampling devices shall be gas tight except when gauging or sampling is taking place.</p> <p>9.2.1.2 - Other equipment proven to be of equal efficiency for preventing discharge of gases and vapors to the atmosphere.</p>			
<p>SIP Article 9.2 (<i>Federally Enforceable SIP Requirement</i>) <u>Storage Containers Equal to or Greater than 150 kiloliters (40,000 Gallons)</u> (Continued) 9.2.2 - Any other petroleum or volatile organic compound storage tank which is constructed or extensively remodeled, on or after the effective date of these regulations, shall be equipped with submerged fill pipe or equivalent, as approved by the Director for control of emissions.</p>	<p><i>Facility will not own or operate storage containers equal to or greater than 40,000 gallons</i></p>	<p>NA</p>	<p>NA</p>
<p>SIP Article 9.2 (<i>Federally Enforceable SIP Requirement</i>) <u>Storage Containers Equal to or Greater than 150 kiloliters (40,000 Gallons)</u> (Continued) 9.2.3 - All facilities for dock loading of petroleum or volatile organic compound products, having a vapor pressure of 1,055 kilograms per square meter (1.5 pounds per square inch absolute) or greater at loading pressure, shall provide for submerged filling by a submerged fill pipe or acceptable equivalent for the control of emissions</p>	<p><i>Facility will not own or operate storage containers equal to or greater than 40,000 gallons</i></p>	<p>NA</p>	<p>NA</p>
<p>NAC 445B.22037 (<i>State Only Requirement</i>) <u>Fugitive Dust</u> 1. Source may not cause or permit the handling, transporting, or storing of any material in a manner which allows or may allow controllable particulate matter to become airborne. 2. Except as otherwise provided in subsection 4, Source may not cause or permit the construction, repair, demolition, or use of unpaved or untreated areas without first putting into effect an ongoing program using the best practical methods to prevent particulate matter from becoming airborne. As used in this subsection, [best practical methods] includes, but is not limited to, paving, chemical stabilization, watering, phased construction, and revegetation. 3. Except as provided in subsection 4, Source may not disturb or cover 5 acres or more of land or its topsoil until he has obtained an Operating Permit for surface area disturbance to clear, excavate, or level the land or to deposit any foreign material to fill or cover the land. 4. The provisions of subsections 2 and 3 do not apply to: a. Agricultural activities occurring on agricultural land; or b. Surface disturbances authorized by a permit issued pursuant to NRS 519A.180 which occur on land which is not less than 5 acres or more than 20 acres.</p>	<p>NA</p>	<p><i>Recordkeeping – Records of “Best Practical Methods” for controlling dust emissions, as needed</i></p>	<p><i>Will comply</i></p>
<p>SIP Article 7.3 (<i>Federally Enforceable SIP Requirement</i>) <u>Fugitive Dust</u> 7.3.1 - Source shall not cause or permit the handling, transporting, or storing of any material in a manner which allows, or may allow, controllable particulate matter to become airborne. 7.3.2 - In areas designated by the Director, Source shall not cause or permit the construction, repair, or demolition work, or the use of unpaved or untreated areas without applying all such measures as may be required by the Director to prevent particulate matter from becoming airborne. 7.3.3 - Source may not disturb or cover 8 hectares (20 acres) or more of land or its topsoil, except for agricultural land until Source obtains a registration certificate or operating permit for the purpose of clearing, excavating or leveling such land or any foreign material to fill or cover such land.</p>	<p>NA</p>	<p><i>Recordkeeping – Records of “Best Practical Methods” for controlling dust emissions, as needed</i></p>	<p><i>Will comply</i></p>

**TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS**

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>NAC 445B.227 (445.664) <u>Federally Enforceable Part 70 Program Facilities Operation</u> Source may not:</p> <ol style="list-style-type: none"> Operate a stationary source of air pollution unless the control equipment for air pollution which is required by applicable requirements or conditions of this Operating Permit is installed and operating. Disconnect, alter, modify or remove any of the control equipment for air pollution or modify any procedure required by an applicable requirement or condition of this Operating Permit. 	<p align="center">— <u>NA</u></p>	<p><u>Collection and control system will be installed in accordance with 40 CFR Part 60, Subpart WWW</u></p>	<p align="center">— <u>Will comply</u></p>
<p>The following provisions are applicable requirements of this Operating Permit:</p> <ol style="list-style-type: none"> Source will comply with all applicable provisions of; <ol style="list-style-type: none"> 40 CFR Part 60.1 - 60.19 - Standards of Performance for New Stationary Sources - General Provisions; 40 CFR Part 61.01 - 61.19 - National Emission Standards for Hazardous Air Pollutants - General Provisions; 40 CFR Part 61.140 - 61.157 - National Emission Standards for Asbestos; 40 CFR Part 63.1 - 63.15 - National Emission Standards for Hazardous Air Pollutants for Source Categories - General Provisions; 40 CFR Part 70 - State Operating Permit Program. 	<ol style="list-style-type: none"> NA Facility not subject to any standard promulgated under Section 112 of the CAA Facility will comply with provisions of 40 CFR Part 61, Subpart M as they apply to disposal at the landfill. Facility not subject to any standard promulgated under Section 112 of the CAA NA 	<ol style="list-style-type: none"> See Emission Unit Specific Requirements NA NA NA NA 	<ol style="list-style-type: none"> Will comply NA Will comply NA NA
<p>Source is subject to 40 CFR Part 68 - Chemical Accident Prevention Provisions. Source shall submit a risk management plan (RMP) by June 21, 1999, or other dates specified in 40 CFR 68.10. Source shall certify compliance with these requirements as part of the annual compliance certification as required by 40 CFR Part 70.</p>	<p><i>Facility will not process, transfer, or store regulated substances in excess of threshold quantities</i></p>	<p align="center">NA</p>	<p align="center">NA</p>
<p>Source will comply with all provisions of 40 CFR Part 82. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156. Equipment used during maintenance, service, repair, or disposal of appliances must meet the standards for recycling and recovery equipment in accordance with 40 CFR 82.158. Persons performing maintenance, service, repair or disposal of appliances must be certified by a certified technician pursuant to 40 CFR 82.161.</p>	<p><i>Facility will not conduct maintenance, service, repair or dispose of appliances</i></p>	<p align="center">NA</p>	<p align="center">NA</p>
<p><u>Chemical Accident Prevention Provisions</u> Source shall:</p> <ol style="list-style-type: none"> Submit a compliance schedule for meeting the requirements of 40 CFR Part 68.215 by the date provided in 40 CFR Part 68.10(a) or; Submit as part of the compliance certification submitted under 40 CFR Part 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 CFR Part 68.215, including the registration and submission of the risk management plan. 	<p><i>Facility will not process, transfer, or store regulated substances in excess of threshold quantities</i></p>	<p align="center">NA</p>	<p align="center">NA</p>
<p>Source is not in compliance with NAC 445B.230 - [Plan for reduction of emissions.] In order to achieve compliance Source shall submit a plan for reducing or eliminating emissions associated with the stationary source in accordance with the episode stages of alert, warning, and emergency as contained in the applicable State Implementation Plan for the State of Nevada. The plan must be submitted on or before July 1, 1998.</p>		<p align="center"><u>NA</u></p>	

Appendix 4

FACILITY-WIDE POTENTIAL TO EMIT TABLES

Provide the stationary source's total emissions by completing Table 1 and Table 2 of Appendix 4. (*Note: Table 1 must include the insignificant activity emissions identified in Table 2.*) [NAC 445B.295.8].

TABLE 1**FACILITY-WIDE (STATIONARY SOURCE)
POTENTIAL TO EMIT
POUNDS/HOUR AND TONS/YEAR**

Pollutant	Potential to Emit (pounds/hour)	Potential to Emit (tons/year)
Total Particulate Matter (PM)	0	0
Particulates as PM ₁₀	0	0
Sulfur Dioxide	0	0
Carbon Monoxide	0	0
Oxides of Nitrogen	0	0
NMOC		48.44 ¹
Volatile Organic Compounds		0.00456
Lead		
Hazardous Air Pollutants ²		
1,1,1-Trichloroethane	0.01366	0.05985
1,1,2,2-Tetrachloroethane	0.1726	0.03941
1,1-Dichloroethane	0.05068	0.222
1,1-Dichloroethene	0.00414	0.01812
1,2-Dichloroethane	0.00866	0.03792
1,2-Dichloropropane	0.00434	0.01901
Acrylonitrile	0.07123	0.3124
Benzene	0.03167	0.1387
Carbon Disulfide	0.00942	0.04127
Carbon Tetrachloride	0.00013	0.0005752
Carbonyl Sulfide	0.00628	0.02751
Chlorobenzene	0.0060	0.0263
Chloroethane	0.01790	0.0784

Chloroform	0.00076	0.003348
Dichlorobenzene	0.00659	0.02885
Dichloromethane	0.25365	1.111
Ethylbenzene	0.1042	0.4564
Ethylene Dibromide	0.00004	0.0001756
Hexane	0.12137	0.5316
Mercury	0.00001	0.00005438
Methyl ethyl ketone	0.10925	0.4785
Methyl Isobutyl Ketone	0.04062	0.1779
Perchloroethylene	0.13094	0.5735
Toluene	0.76667	3.358
Trichloroethylene	0.07852	0.3439
Vinyl Chloride	0.09731	0.4265
Xylene	0.27192	1.191
TOTAL HAPS		9.70219
Other Regulated Pollutants (Specify)		

¹ Uncontrolled NMOC emissions from the Jungo Disposal Site are based on LandGEM model results after 5 full years of waste acceptance, at the maximum acceptance rate of 1,460,000 tons per year. 48.55 tons/yr is equal to 43.94 Mg/yr (see LandGEM Summary Report in Appendix 5).

² HAP emissions calculated by LandGEM and summarized in LandGEM Inventory in Appendix 5.

TABLE 2
INSIGNIFICANT ACTIVITIES
POTENTIAL TO EMIT
POUNDS/HOUR AND TONS/YEAR

Insignificant Activity	Pollutant	Potential to Emit (pounds/hour)	Potential to Emit (tons/year)
Diesel Storage Tank	VOC		0.00456

Appendix 5

DETAILED EMISSIONS CALCULATIONS

Please Attach Emission Calculations

Instructions

1. Provide descriptions of all emissions, and provide emission rates, of any pollutants for which the source is major and all emissions of regulated air pollutants from all emission units. [NAC 445B.3363.1(a), NAC 445B.3363.1(b), NAC 445B.295.8]
2. Provide the emission rates of all regulated air pollutants that are subject to an emissions limitation pursuant to an applicable requirement. The emission rate must be described in pounds per hour and tons per year and in such terms as are necessary to establish compliance using the applicable standard reference test method. [NAC 445B.3363.1(d)]
3. Provide all supporting calculations and documentation of all emission factors for the emission rates specified in 1 and 2 above. This information shall be provided for each emission unit. (*Note: A listing of default emission control efficiency values is contained in Attachment 4.*) [NAC 445B.3363.1(f)]
4. Provide any other information required by any applicable requirement for each emission unit. [NAC 445B.3363.1(e)]
5. Provide all emissions of regulated air pollutants (in pounds per hour and tons per year) from **each insignificant activity** (see Section 4 of Appendix 2 to determine if these calculations are required), and calculations and supporting documentation. The emissions and supporting calculations should reflect all insignificant activities listed in Appendix 2. [NAC 445B.295.8]



Summary Report

Landfill Name or Identifier: Jungo Disposal Site

Date:

Description/Comments:

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	2010	
Landfill Closure Year (with 80-year limit)	2050	
Actual Closure Year (without limit)	2050	
Have Model Calculate Closure Year?	Yes	
Waste Design Capacity	58,500,000	<i>short tons</i>

MODEL PARAMETERS

Methane Generation Rate, k	0.020	<i>year⁻¹</i>
Potential Methane Generation Capacity, L ₀	100	<i>m³/Mg</i>
NMOC Concentration	600	<i>ppmv as hexane</i>
Methane Content	50	<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)
2010	1,327,273	1,460,000	0	0
2011	1,327,273	1,460,000	1,327,273	1,460,000
2012	1,327,273	1,460,000	2,654,545	2,920,000
2013	1,327,273	1,460,000	3,981,818	4,380,000
2014	1,327,273	1,460,000	5,309,091	5,840,000
2015	1,327,273	1,460,000	6,636,364	7,300,000
2016	1,327,273	1,460,000	7,963,636	8,760,000
2017	1,327,273	1,460,000	9,290,909	10,220,000
2018	1,327,273	1,460,000	10,618,182	11,680,000
2019	1,327,273	1,460,000	11,945,455	13,140,000
2020	1,327,273	1,460,000	13,272,727	14,600,000
2021	1,327,273	1,460,000	14,600,000	16,060,000
2022	1,327,273	1,460,000	15,927,273	17,520,000
2023	1,327,273	1,460,000	17,254,545	18,980,000
2024	1,327,273	1,460,000	18,581,818	20,440,000
2025	1,327,273	1,460,000	19,909,091	21,900,000
2026	1,327,273	1,460,000	21,236,364	23,360,000
2027	1,327,273	1,460,000	22,563,636	24,820,000
2028	1,327,273	1,460,000	23,890,909	26,280,000
2029	1,327,273	1,460,000	25,218,182	27,740,000
2030	1,327,273	1,460,000	26,545,455	29,200,000
2031	1,327,273	1,460,000	27,872,727	30,660,000
2032	1,327,273	1,460,000	29,200,000	32,120,000
2033	1,327,273	1,460,000	30,527,273	33,580,000
2034	1,327,273	1,460,000	31,854,545	35,040,000
2035	1,327,273	1,460,000	33,181,818	36,500,000
2036	1,327,273	1,460,000	34,509,091	37,960,000
2037	1,327,273	1,460,000	35,836,364	39,420,000
2038	1,327,273	1,460,000	37,163,636	40,880,000
2039	1,327,273	1,460,000	38,490,909	42,340,000
2040	1,327,273	1,460,000	39,818,182	43,800,000
2041	1,327,273	1,460,000	41,145,455	45,260,000
2042	1,327,273	1,460,000	42,472,727	46,720,000
2043	1,327,273	1,460,000	43,800,000	48,180,000
2044	1,327,273	1,460,000	45,127,273	49,640,000
2045	1,327,273	1,460,000	46,454,545	51,100,000
2046	1,327,273	1,460,000	47,781,818	52,560,000
2047	1,327,273	1,460,000	49,109,091	54,020,000
2048	1,327,273	1,460,000	50,436,364	55,480,000
2049	1,327,273	1,460,000	51,763,636	56,940,000

WASTE ACCEPTANCE RATES (Continued)

Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	(short tons/year)	(Mg)	(short tons)
2050	90,909	100,000	53,090,909	58,400,000
2051	0	0	53,181,818	58,500,000
2052	0	0	53,181,818	58,500,000
2053	0	0	53,181,818	58,500,000
2054	0	0	53,181,818	58,500,000
2055	0	0	53,181,818	58,500,000
2056	0	0	53,181,818	58,500,000
2057	0	0	53,181,818	58,500,000
2058	0	0	53,181,818	58,500,000
2059	0	0	53,181,818	58,500,000
2060	0	0	53,181,818	58,500,000
2061	0	0	53,181,818	58,500,000
2062	0	0	53,181,818	58,500,000
2063	0	0	53,181,818	58,500,000
2064	0	0	53,181,818	58,500,000
2065	0	0	53,181,818	58,500,000
2066	0	0	53,181,818	58,500,000
2067	0	0	53,181,818	58,500,000
2068	0	0	53,181,818	58,500,000
2069	0	0	53,181,818	58,500,000
2070	0	0	53,181,818	58,500,000
2071	0	0	53,181,818	58,500,000
2072	0	0	53,181,818	58,500,000
2073	0	0	53,181,818	58,500,000
2074	0	0	53,181,818	58,500,000
2075	0	0	53,181,818	58,500,000
2076	0	0	53,181,818	58,500,000
2077	0	0	53,181,818	58,500,000
2078	0	0	53,181,818	58,500,000
2079	0	0	53,181,818	58,500,000
2080	0	0	53,181,818	58,500,000
2081	0	0	53,181,818	58,500,000
2082	0	0	53,181,818	58,500,000
2083	0	0	53,181,818	58,500,000
2084	0	0	53,181,818	58,500,000
2085	0	0	53,181,818	58,500,000
2086	0	0	53,181,818	58,500,000
2087	0	0	53,181,818	58,500,000
2088	0	0	53,181,818	58,500,000
2089	0	0	53,181,818	58,500,000

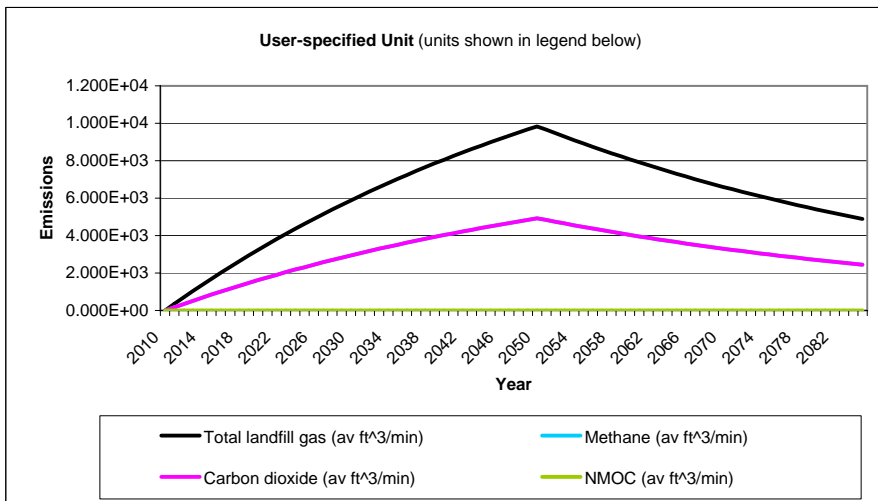
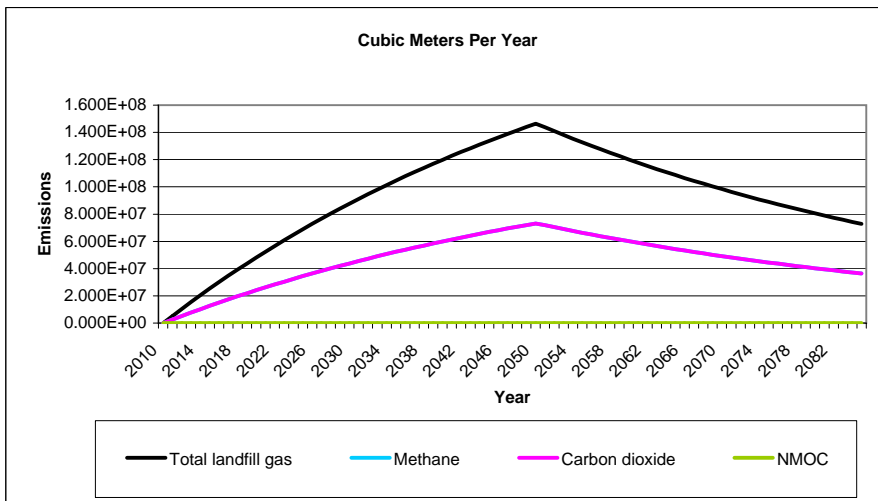
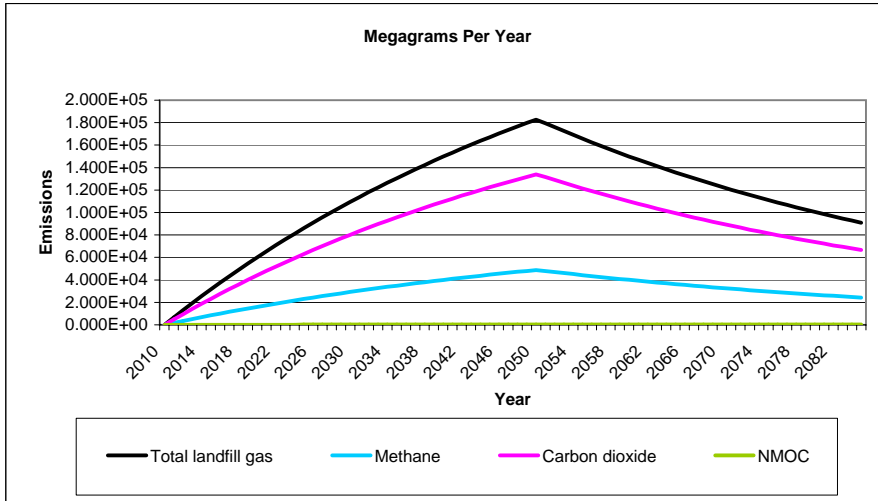
Pollutant Parameters

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		
	1,1,1,2-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)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2010	0	0	0	0	0	0
2011	6.571E+03	5.262E+06	3.535E+02	1.755E+03	2.631E+06	1.768E+02
2012	1.301E+04	1.042E+07	7.001E+02	3.476E+03	5.210E+06	3.500E+02
2013	1.932E+04	1.547E+07	1.040E+03	5.162E+03	7.737E+06	5.199E+02
2014	2.551E+04	2.043E+07	1.373E+03	6.815E+03	1.021E+07	6.863E+02
2015	3.158E+04	2.529E+07	1.699E+03	8.435E+03	1.264E+07	8.495E+02
2016	3.752E+04	3.005E+07	2.019E+03	1.002E+04	1.502E+07	1.009E+03
2017	4.335E+04	3.471E+07	2.332E+03	1.158E+04	1.736E+07	1.166E+03
2018	4.906E+04	3.929E+07	2.640E+03	1.311E+04	1.964E+07	1.320E+03
2019	5.466E+04	4.377E+07	2.941E+03	1.460E+04	2.189E+07	1.471E+03
2020	6.015E+04	4.817E+07	3.236E+03	1.607E+04	2.408E+07	1.618E+03
2021	6.553E+04	5.247E+07	3.526E+03	1.750E+04	2.624E+07	1.763E+03
2022	7.080E+04	5.670E+07	3.809E+03	1.891E+04	2.835E+07	1.905E+03
2023	7.597E+04	6.084E+07	4.088E+03	2.029E+04	3.042E+07	2.044E+03
2024	8.104E+04	6.489E+07	4.360E+03	2.165E+04	3.245E+07	2.180E+03
2025	8.601E+04	6.887E+07	4.627E+03	2.297E+04	3.443E+07	2.314E+03
2026	9.087E+04	7.277E+07	4.889E+03	2.427E+04	3.638E+07	2.445E+03
2027	9.565E+04	7.659E+07	5.146E+03	2.555E+04	3.829E+07	2.573E+03
2028	1.003E+05	8.033E+07	5.398E+03	2.680E+04	4.017E+07	2.699E+03
2029	1.049E+05	8.400E+07	5.644E+03	2.802E+04	4.200E+07	2.822E+03
2030	1.094E+05	8.760E+07	5.886E+03	2.922E+04	4.380E+07	2.943E+03
2031	1.138E+05	9.113E+07	6.123E+03	3.040E+04	4.556E+07	3.061E+03
2032	1.181E+05	9.459E+07	6.355E+03	3.155E+04	4.729E+07	3.178E+03
2033	1.224E+05	9.798E+07	6.583E+03	3.268E+04	4.899E+07	3.291E+03
2034	1.265E+05	1.013E+08	6.806E+03	3.379E+04	5.065E+07	3.403E+03
2035	1.306E+05	1.046E+08	7.025E+03	3.488E+04	5.228E+07	3.512E+03
2036	1.346E+05	1.077E+08	7.239E+03	3.594E+04	5.387E+07	3.620E+03
2037	1.385E+05	1.109E+08	7.449E+03	3.698E+04	5.544E+07	3.725E+03
2038	1.423E+05	1.139E+08	7.656E+03	3.801E+04	5.697E+07	3.828E+03
2039	1.460E+05	1.169E+08	7.857E+03	3.901E+04	5.847E+07	3.929E+03
2040	1.497E+05	1.199E+08	8.055E+03	3.999E+04	5.994E+07	4.028E+03
2041	1.533E+05	1.228E+08	8.249E+03	4.096E+04	6.139E+07	4.125E+03
2042	1.569E+05	1.256E+08	8.440E+03	4.190E+04	6.280E+07	4.220E+03
2043	1.603E+05	1.284E+08	8.626E+03	4.283E+04	6.419E+07	4.313E+03
2044	1.637E+05	1.311E+08	8.809E+03	4.373E+04	6.555E+07	4.404E+03
2045	1.671E+05	1.338E+08	8.988E+03	4.462E+04	6.688E+07	4.494E+03
2046	1.703E+05	1.364E+08	9.163E+03	4.549E+04	6.819E+07	4.582E+03
2047	1.735E+05	1.389E+08	9.335E+03	4.635E+04	6.947E+07	4.668E+03
2048	1.766E+05	1.415E+08	9.504E+03	4.718E+04	7.073E+07	4.752E+03
2049	1.797E+05	1.439E+08	9.669E+03	4.801E+04	7.196E+07	4.835E+03
2050	1.827E+05	1.463E+08	9.832E+03	4.881E+04	7.316E+07	4.916E+03
2051	1.796E+05	1.438E+08	9.661E+03	4.796E+04	7.189E+07	4.831E+03
2052	1.760E+05	1.409E+08	9.470E+03	4.701E+04	7.047E+07	4.735E+03
2053	1.725E+05	1.381E+08	9.282E+03	4.608E+04	6.907E+07	4.641E+03
2054	1.691E+05	1.354E+08	9.098E+03	4.517E+04	6.771E+07	4.549E+03
2055	1.658E+05	1.327E+08	8.918E+03	4.428E+04	6.637E+07	4.459E+03
2056	1.625E+05	1.301E+08	8.742E+03	4.340E+04	6.505E+07	4.371E+03
2057	1.593E+05	1.275E+08	8.569E+03	4.254E+04	6.376E+07	4.284E+03
2058	1.561E+05	1.250E+08	8.399E+03	4.170E+04	6.250E+07	4.199E+03
2059	1.530E+05	1.225E+08	8.233E+03	4.087E+04	6.126E+07	4.116E+03

Results (Continued)

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2060	1.500E+05	1.201E+08	8.070E+03	4.006E+04	6.005E+07	4.035E+03
2061	1.470E+05	1.177E+08	7.910E+03	3.927E+04	5.886E+07	3.955E+03
2062	1.441E+05	1.154E+08	7.753E+03	3.849E+04	5.770E+07	3.877E+03
2063	1.413E+05	1.131E+08	7.600E+03	3.773E+04	5.655E+07	3.800E+03
2064	1.385E+05	1.109E+08	7.449E+03	3.698E+04	5.543E+07	3.725E+03
2065	1.357E+05	1.087E+08	7.302E+03	3.625E+04	5.434E+07	3.651E+03
2066	1.330E+05	1.065E+08	7.157E+03	3.553E+04	5.326E+07	3.579E+03
2067	1.304E+05	1.044E+08	7.015E+03	3.483E+04	5.221E+07	3.508E+03
2068	1.278E+05	1.023E+08	6.876E+03	3.414E+04	5.117E+07	3.438E+03
2069	1.253E+05	1.003E+08	6.740E+03	3.346E+04	5.016E+07	3.370E+03
2070	1.228E+05	9.833E+07	6.607E+03	3.280E+04	4.917E+07	3.303E+03
2071	1.204E+05	9.638E+07	6.476E+03	3.215E+04	4.819E+07	3.238E+03
2072	1.180E+05	9.448E+07	6.348E+03	3.151E+04	4.724E+07	3.174E+03
2073	1.156E+05	9.260E+07	6.222E+03	3.089E+04	4.630E+07	3.111E+03
2074	1.134E+05	9.077E+07	6.099E+03	3.028E+04	4.539E+07	3.049E+03
2075	1.111E+05	8.897E+07	5.978E+03	2.968E+04	4.449E+07	2.989E+03
2076	1.089E+05	8.721E+07	5.860E+03	2.909E+04	4.361E+07	2.930E+03
2077	1.068E+05	8.548E+07	5.744E+03	2.852E+04	4.274E+07	2.872E+03
2078	1.046E+05	8.379E+07	5.630E+03	2.795E+04	4.190E+07	2.815E+03
2079	1.026E+05	8.213E+07	5.518E+03	2.740E+04	4.107E+07	2.759E+03
2080	1.005E+05	8.051E+07	5.409E+03	2.685E+04	4.025E+07	2.705E+03
2081	9.855E+04	7.891E+07	5.302E+03	2.632E+04	3.946E+07	2.651E+03
2082	9.660E+04	7.735E+07	5.197E+03	2.580E+04	3.867E+07	2.599E+03
2083	9.468E+04	7.582E+07	5.094E+03	2.529E+04	3.791E+07	2.547E+03
2084	9.281E+04	7.432E+07	4.993E+03	2.479E+04	3.716E+07	2.497E+03
2085	9.097E+04	7.285E+07	4.894E+03	2.430E+04	3.642E+07	2.447E+03
2086	8.917E+04	7.140E+07	4.798E+03	2.382E+04	3.570E+07	2.399E+03
2087	8.740E+04	6.999E+07	4.703E+03	2.335E+04	3.499E+07	2.351E+03
2088	8.567E+04	6.860E+07	4.609E+03	2.288E+04	3.430E+07	2.305E+03
2089	8.398E+04	6.724E+07	4.518E+03	2.243E+04	3.362E+07	2.259E+03
2090	8.231E+04	6.591E+07	4.429E+03	2.199E+04	3.296E+07	2.214E+03
2091	8.068E+04	6.461E+07	4.341E+03	2.155E+04	3.230E+07	2.170E+03
2092	7.909E+04	6.333E+07	4.255E+03	2.112E+04	3.166E+07	2.128E+03
2093	7.752E+04	6.207E+07	4.171E+03	2.071E+04	3.104E+07	2.085E+03
2094	7.599E+04	6.085E+07	4.088E+03	2.030E+04	3.042E+07	2.044E+03
2095	7.448E+04	5.964E+07	4.007E+03	1.989E+04	2.982E+07	2.004E+03
2096	7.301E+04	5.846E+07	3.928E+03	1.950E+04	2.923E+07	1.964E+03
2097	7.156E+04	5.730E+07	3.850E+03	1.911E+04	2.865E+07	1.925E+03
2098	7.014E+04	5.617E+07	3.774E+03	1.874E+04	2.808E+07	1.887E+03
2099	6.875E+04	5.506E+07	3.699E+03	1.836E+04	2.753E+07	1.850E+03
2100	6.739E+04	5.396E+07	3.626E+03	1.800E+04	2.698E+07	1.813E+03
2101	6.606E+04	5.290E+07	3.554E+03	1.764E+04	2.645E+07	1.777E+03
2102	6.475E+04	5.185E+07	3.484E+03	1.730E+04	2.592E+07	1.742E+03
2103	6.347E+04	5.082E+07	3.415E+03	1.695E+04	2.541E+07	1.707E+03
2104	6.221E+04	4.982E+07	3.347E+03	1.662E+04	2.491E+07	1.674E+03
2105	6.098E+04	4.883E+07	3.281E+03	1.629E+04	2.441E+07	1.640E+03
2106	5.977E+04	4.786E+07	3.216E+03	1.597E+04	2.393E+07	1.608E+03
2107	5.859E+04	4.691E+07	3.152E+03	1.565E+04	2.346E+07	1.576E+03
2108	5.743E+04	4.599E+07	3.090E+03	1.534E+04	2.299E+07	1.545E+03
2109	5.629E+04	4.508E+07	3.029E+03	1.504E+04	2.254E+07	1.514E+03
2110	5.518E+04	4.418E+07	2.969E+03	1.474E+04	2.209E+07	1.484E+03

Results (Continued)

Year	Total landfill gas			Methane		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2111	5.408E+04	4.331E+07	2.910E+03	1.445E+04	2.165E+07	1.455E+03
2112	5.301E+04	4.245E+07	2.852E+03	1.416E+04	2.123E+07	1.426E+03
2113	5.196E+04	4.161E+07	2.796E+03	1.388E+04	2.080E+07	1.398E+03
2114	5.093E+04	4.079E+07	2.740E+03	1.361E+04	2.039E+07	1.370E+03
2115	4.993E+04	3.998E+07	2.686E+03	1.334E+04	1.999E+07	1.343E+03
2116	4.894E+04	3.919E+07	2.633E+03	1.307E+04	1.959E+07	1.316E+03
2117	4.797E+04	3.841E+07	2.581E+03	1.281E+04	1.921E+07	1.290E+03
2118	4.702E+04	3.765E+07	2.530E+03	1.256E+04	1.883E+07	1.265E+03
2119	4.609E+04	3.690E+07	2.480E+03	1.231E+04	1.845E+07	1.240E+03
2120	4.517E+04	3.617E+07	2.431E+03	1.207E+04	1.809E+07	1.215E+03
2121	4.428E+04	3.546E+07	2.382E+03	1.183E+04	1.773E+07	1.191E+03
2122	4.340E+04	3.476E+07	2.335E+03	1.159E+04	1.738E+07	1.168E+03
2123	4.254E+04	3.407E+07	2.289E+03	1.136E+04	1.703E+07	1.144E+03
2124	4.170E+04	3.339E+07	2.244E+03	1.114E+04	1.670E+07	1.122E+03
2125	4.088E+04	3.273E+07	2.199E+03	1.092E+04	1.637E+07	1.100E+03
2126	4.007E+04	3.208E+07	2.156E+03	1.070E+04	1.604E+07	1.078E+03
2127	3.927E+04	3.145E+07	2.113E+03	1.049E+04	1.572E+07	1.056E+03
2128	3.850E+04	3.083E+07	2.071E+03	1.028E+04	1.541E+07	1.036E+03
2129	3.773E+04	3.021E+07	2.030E+03	1.008E+04	1.511E+07	1.015E+03
2130	3.699E+04	2.962E+07	1.990E+03	9.879E+03	1.481E+07	9.950E+02
2131	3.625E+04	2.903E+07	1.951E+03	9.684E+03	1.452E+07	9.753E+02
2132	3.554E+04	2.846E+07	1.912E+03	9.492E+03	1.423E+07	9.560E+02
2133	3.483E+04	2.789E+07	1.874E+03	9.304E+03	1.395E+07	9.370E+02
2134	3.414E+04	2.734E+07	1.837E+03	9.120E+03	1.367E+07	9.185E+02
2135	3.347E+04	2.680E+07	1.801E+03	8.939E+03	1.340E+07	9.003E+02
2136	3.280E+04	2.627E+07	1.765E+03	8.762E+03	1.313E+07	8.825E+02
2137	3.215E+04	2.575E+07	1.730E+03	8.589E+03	1.287E+07	8.650E+02
2138	3.152E+04	2.524E+07	1.696E+03	8.419E+03	1.262E+07	8.479E+02
2139	3.089E+04	2.474E+07	1.662E+03	8.252E+03	1.237E+07	8.311E+02
2140	3.028E+04	2.425E+07	1.629E+03	8.089E+03	1.212E+07	8.146E+02
2141	2.968E+04	2.377E+07	1.597E+03	7.928E+03	1.188E+07	7.985E+02
2142	2.909E+04	2.330E+07	1.565E+03	7.771E+03	1.165E+07	7.827E+02
2143	2.852E+04	2.284E+07	1.534E+03	7.617E+03	1.142E+07	7.672E+02
2144	2.795E+04	2.238E+07	1.504E+03	7.467E+03	1.119E+07	7.520E+02
2145	2.740E+04	2.194E+07	1.474E+03	7.319E+03	1.097E+07	7.371E+02
2146	2.686E+04	2.151E+07	1.445E+03	7.174E+03	1.075E+07	7.225E+02
2147	2.633E+04	2.108E+07	1.416E+03	7.032E+03	1.054E+07	7.082E+02
2148	2.580E+04	2.066E+07	1.388E+03	6.893E+03	1.033E+07	6.942E+02
2149	2.529E+04	2.025E+07	1.361E+03	6.756E+03	1.013E+07	6.804E+02
2150	2.479E+04	1.985E+07	1.334E+03	6.622E+03	9.926E+06	6.669E+02

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2010	0	0	0	0	0	0
2011	4.816E+03	2.631E+06	1.768E+02	1.132E+01	3.157E+03	2.121E-01
2012	9.536E+03	5.210E+06	3.500E+02	2.241E+01	6.251E+03	4.200E-01
2013	1.416E+04	7.737E+06	5.199E+02	3.328E+01	9.285E+03	6.238E-01
2014	1.870E+04	1.021E+07	6.863E+02	4.394E+01	1.226E+04	8.236E-01
2015	2.314E+04	1.264E+07	8.495E+02	5.438E+01	1.517E+04	1.019E+00
2016	2.750E+04	1.502E+07	1.009E+03	6.462E+01	1.803E+04	1.211E+00
2017	3.177E+04	1.736E+07	1.166E+03	7.466E+01	2.083E+04	1.399E+00
2018	3.596E+04	1.964E+07	1.320E+03	8.450E+01	2.357E+04	1.584E+00
2019	4.006E+04	2.189E+07	1.471E+03	9.414E+01	2.626E+04	1.765E+00
2020	4.408E+04	2.408E+07	1.618E+03	1.036E+02	2.890E+04	1.942E+00
2021	4.803E+04	2.624E+07	1.763E+03	1.129E+02	3.148E+04	2.115E+00
2022	5.189E+04	2.835E+07	1.905E+03	1.219E+02	3.402E+04	2.286E+00
2023	5.568E+04	3.042E+07	2.044E+03	1.308E+02	3.650E+04	2.453E+00
2024	5.939E+04	3.245E+07	2.180E+03	1.396E+02	3.894E+04	2.616E+00
2025	6.303E+04	3.443E+07	2.314E+03	1.481E+02	4.132E+04	2.776E+00
2026	6.660E+04	3.638E+07	2.445E+03	1.565E+02	4.366E+04	2.934E+00
2027	7.010E+04	3.829E+07	2.573E+03	1.647E+02	4.595E+04	3.088E+00
2028	7.353E+04	4.017E+07	2.699E+03	1.728E+02	4.820E+04	3.239E+00
2029	7.688E+04	4.200E+07	2.822E+03	1.807E+02	5.040E+04	3.387E+00
2030	8.018E+04	4.380E+07	2.943E+03	1.884E+02	5.256E+04	3.532E+00
2031	8.341E+04	4.556E+07	3.061E+03	1.960E+02	5.468E+04	3.674E+00
2032	8.657E+04	4.729E+07	3.178E+03	2.034E+02	5.675E+04	3.813E+00
2033	8.967E+04	4.899E+07	3.291E+03	2.107E+02	5.879E+04	3.950E+00
2034	9.271E+04	5.065E+07	3.403E+03	2.179E+02	6.078E+04	4.084E+00
2035	9.569E+04	5.228E+07	3.512E+03	2.249E+02	6.273E+04	4.215E+00
2036	9.861E+04	5.387E+07	3.620E+03	2.317E+02	6.465E+04	4.344E+00
2037	1.015E+05	5.544E+07	3.725E+03	2.385E+02	6.652E+04	4.470E+00
2038	1.043E+05	5.697E+07	3.828E+03	2.450E+02	6.836E+04	4.593E+00
2039	1.070E+05	5.847E+07	3.929E+03	2.515E+02	7.017E+04	4.714E+00
2040	1.097E+05	5.994E+07	4.028E+03	2.578E+02	7.193E+04	4.833E+00
2041	1.124E+05	6.139E+07	4.125E+03	2.641E+02	7.367E+04	4.950E+00
2042	1.150E+05	6.280E+07	4.220E+03	2.701E+02	7.536E+04	5.064E+00
2043	1.175E+05	6.419E+07	4.313E+03	2.761E+02	7.703E+04	5.176E+00
2044	1.200E+05	6.555E+07	4.404E+03	2.820E+02	7.866E+04	5.285E+00
2045	1.224E+05	6.688E+07	4.494E+03	2.877E+02	8.026E+04	5.393E+00
2046	1.248E+05	6.819E+07	4.582E+03	2.933E+02	8.183E+04	5.498E+00
2047	1.272E+05	6.947E+07	4.668E+03	2.988E+02	8.336E+04	5.601E+00
2048	1.295E+05	7.073E+07	4.752E+03	3.042E+02	8.487E+04	5.702E+00
2049	1.317E+05	7.196E+07	4.835E+03	3.095E+02	8.635E+04	5.802E+00
2050	1.339E+05	7.316E+07	4.916E+03	3.147E+02	8.779E+04	5.899E+00
2051	1.316E+05	7.189E+07	4.831E+03	3.092E+02	8.627E+04	5.797E+00
2052	1.290E+05	7.047E+07	4.735E+03	3.031E+02	8.456E+04	5.682E+00
2053	1.264E+05	6.907E+07	4.641E+03	2.971E+02	8.289E+04	5.569E+00
2054	1.239E+05	6.771E+07	4.549E+03	2.912E+02	8.125E+04	5.459E+00
2055	1.215E+05	6.637E+07	4.459E+03	2.855E+02	7.964E+04	5.351E+00
2056	1.191E+05	6.505E+07	4.371E+03	2.798E+02	7.806E+04	5.245E+00
2057	1.167E+05	6.376E+07	4.284E+03	2.743E+02	7.652E+04	5.141E+00
2058	1.144E+05	6.250E+07	4.199E+03	2.688E+02	7.500E+04	5.039E+00
2059	1.121E+05	6.126E+07	4.116E+03	2.635E+02	7.352E+04	4.940E+00

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2060	1.099E+05	6.005E+07	4.035E+03	2.583E+02	7.206E+04	4.842E+00
2061	1.077E+05	5.886E+07	3.955E+03	2.532E+02	7.063E+04	4.746E+00
2062	1.056E+05	5.770E+07	3.877E+03	2.482E+02	6.924E+04	4.652E+00
2063	1.035E+05	5.655E+07	3.800E+03	2.433E+02	6.786E+04	4.560E+00
2064	1.015E+05	5.543E+07	3.725E+03	2.384E+02	6.652E+04	4.470E+00
2065	9.946E+04	5.434E+07	3.651E+03	2.337E+02	6.520E+04	4.381E+00
2066	9.749E+04	5.326E+07	3.579E+03	2.291E+02	6.391E+04	4.294E+00
2067	9.556E+04	5.221E+07	3.508E+03	2.246E+02	6.265E+04	4.209E+00
2068	9.367E+04	5.117E+07	3.438E+03	2.201E+02	6.141E+04	4.126E+00
2069	9.182E+04	5.016E+07	3.370E+03	2.157E+02	6.019E+04	4.044E+00
2070	9.000E+04	4.917E+07	3.303E+03	2.115E+02	5.900E+04	3.964E+00
2071	8.821E+04	4.819E+07	3.238E+03	2.073E+02	5.783E+04	3.886E+00
2072	8.647E+04	4.724E+07	3.174E+03	2.032E+02	5.669E+04	3.809E+00
2073	8.476E+04	4.630E+07	3.111E+03	1.992E+02	5.556E+04	3.733E+00
2074	8.308E+04	4.539E+07	3.049E+03	1.952E+02	5.446E+04	3.659E+00
2075	8.143E+04	4.449E+07	2.989E+03	1.914E+02	5.338E+04	3.587E+00
2076	7.982E+04	4.361E+07	2.930E+03	1.876E+02	5.233E+04	3.516E+00
2077	7.824E+04	4.274E+07	2.872E+03	1.838E+02	5.129E+04	3.446E+00
2078	7.669E+04	4.190E+07	2.815E+03	1.802E+02	5.028E+04	3.378E+00
2079	7.517E+04	4.107E+07	2.759E+03	1.766E+02	4.928E+04	3.311E+00
2080	7.368E+04	4.025E+07	2.705E+03	1.731E+02	4.830E+04	3.246E+00
2081	7.222E+04	3.946E+07	2.651E+03	1.697E+02	4.735E+04	3.181E+00
2082	7.079E+04	3.867E+07	2.599E+03	1.664E+02	4.641E+04	3.118E+00
2083	6.939E+04	3.791E+07	2.547E+03	1.631E+02	4.549E+04	3.057E+00
2084	6.802E+04	3.716E+07	2.497E+03	1.598E+02	4.459E+04	2.996E+00
2085	6.667E+04	3.642E+07	2.447E+03	1.567E+02	4.371E+04	2.937E+00
2086	6.535E+04	3.570E+07	2.399E+03	1.536E+02	4.284E+04	2.879E+00
2087	6.406E+04	3.499E+07	2.351E+03	1.505E+02	4.199E+04	2.822E+00
2088	6.279E+04	3.430E+07	2.305E+03	1.475E+02	4.116E+04	2.766E+00
2089	6.155E+04	3.362E+07	2.259E+03	1.446E+02	4.035E+04	2.711E+00
2090	6.033E+04	3.296E+07	2.214E+03	1.418E+02	3.955E+04	2.657E+00
2091	5.913E+04	3.230E+07	2.170E+03	1.390E+02	3.876E+04	2.605E+00
2092	5.796E+04	3.166E+07	2.128E+03	1.362E+02	3.800E+04	2.553E+00
2093	5.681E+04	3.104E+07	2.085E+03	1.335E+02	3.724E+04	2.502E+00
2094	5.569E+04	3.042E+07	2.044E+03	1.309E+02	3.651E+04	2.453E+00
2095	5.459E+04	2.982E+07	2.004E+03	1.283E+02	3.578E+04	2.404E+00
2096	5.351E+04	2.923E+07	1.964E+03	1.257E+02	3.508E+04	2.357E+00
2097	5.245E+04	2.865E+07	1.925E+03	1.232E+02	3.438E+04	2.310E+00
2098	5.141E+04	2.808E+07	1.887E+03	1.208E+02	3.370E+04	2.264E+00
2099	5.039E+04	2.753E+07	1.850E+03	1.184E+02	3.303E+04	2.219E+00
2100	4.939E+04	2.698E+07	1.813E+03	1.161E+02	3.238E+04	2.176E+00
2101	4.841E+04	2.645E+07	1.777E+03	1.138E+02	3.174E+04	2.132E+00
2102	4.745E+04	2.592E+07	1.742E+03	1.115E+02	3.111E+04	2.090E+00
2103	4.652E+04	2.541E+07	1.707E+03	1.093E+02	3.049E+04	2.049E+00
2104	4.559E+04	2.491E+07	1.674E+03	1.071E+02	2.989E+04	2.008E+00
2105	4.469E+04	2.441E+07	1.640E+03	1.050E+02	2.930E+04	1.969E+00
2106	4.381E+04	2.393E+07	1.608E+03	1.029E+02	2.872E+04	1.930E+00
2107	4.294E+04	2.346E+07	1.576E+03	1.009E+02	2.815E+04	1.891E+00
2108	4.209E+04	2.299E+07	1.545E+03	9.890E+01	2.759E+04	1.854E+00
2109	4.126E+04	2.254E+07	1.514E+03	9.694E+01	2.705E+04	1.817E+00
2110	4.044E+04	2.209E+07	1.484E+03	9.502E+01	2.651E+04	1.781E+00

Results (Continued)

Year	Carbon dioxide			NMOC		
	(Mg/year)	(m ³ /year)	(av ft ³ /min)	(Mg/year)	(m ³ /year)	(av ft ³ /min)
2111	3.964E+04	2.165E+07	1.455E+03	9.314E+01	2.598E+04	1.746E+00
2112	3.885E+04	2.123E+07	1.426E+03	9.130E+01	2.547E+04	1.711E+00
2113	3.808E+04	2.080E+07	1.398E+03	8.949E+01	2.497E+04	1.677E+00
2114	3.733E+04	2.039E+07	1.370E+03	8.772E+01	2.447E+04	1.644E+00
2115	3.659E+04	1.999E+07	1.343E+03	8.598E+01	2.399E+04	1.612E+00
2116	3.587E+04	1.959E+07	1.316E+03	8.428E+01	2.351E+04	1.580E+00
2117	3.516E+04	1.921E+07	1.290E+03	8.261E+01	2.305E+04	1.548E+00
2118	3.446E+04	1.883E+07	1.265E+03	8.097E+01	2.259E+04	1.518E+00
2119	3.378E+04	1.845E+07	1.240E+03	7.937E+01	2.214E+04	1.488E+00
2120	3.311E+04	1.809E+07	1.215E+03	7.780E+01	2.170E+04	1.458E+00
2121	3.245E+04	1.773E+07	1.191E+03	7.626E+01	2.127E+04	1.429E+00
2122	3.181E+04	1.738E+07	1.168E+03	7.475E+01	2.085E+04	1.401E+00
2123	3.118E+04	1.703E+07	1.144E+03	7.327E+01	2.044E+04	1.373E+00
2124	3.056E+04	1.670E+07	1.122E+03	7.182E+01	2.004E+04	1.346E+00
2125	2.996E+04	1.637E+07	1.100E+03	7.039E+01	1.964E+04	1.320E+00
2126	2.936E+04	1.604E+07	1.078E+03	6.900E+01	1.925E+04	1.293E+00
2127	2.878E+04	1.572E+07	1.056E+03	6.763E+01	1.887E+04	1.268E+00
2128	2.821E+04	1.541E+07	1.036E+03	6.630E+01	1.850E+04	1.243E+00
2129	2.765E+04	1.511E+07	1.015E+03	6.498E+01	1.813E+04	1.218E+00
2130	2.711E+04	1.481E+07	9.950E+02	6.370E+01	1.777E+04	1.194E+00
2131	2.657E+04	1.452E+07	9.753E+02	6.243E+01	1.742E+04	1.170E+00
2132	2.604E+04	1.423E+07	9.560E+02	6.120E+01	1.707E+04	1.147E+00
2133	2.553E+04	1.395E+07	9.370E+02	5.999E+01	1.674E+04	1.124E+00
2134	2.502E+04	1.367E+07	9.185E+02	5.880E+01	1.640E+04	1.102E+00
2135	2.453E+04	1.340E+07	9.003E+02	5.763E+01	1.608E+04	1.080E+00
2136	2.404E+04	1.313E+07	8.825E+02	5.649E+01	1.576E+04	1.059E+00
2137	2.357E+04	1.287E+07	8.650E+02	5.537E+01	1.545E+04	1.038E+00
2138	2.310E+04	1.262E+07	8.479E+02	5.428E+01	1.514E+04	1.017E+00
2139	2.264E+04	1.237E+07	8.311E+02	5.320E+01	1.484E+04	9.973E-01
2140	2.219E+04	1.212E+07	8.146E+02	5.215E+01	1.455E+04	9.775E-01
2141	2.175E+04	1.188E+07	7.985E+02	5.112E+01	1.426E+04	9.582E-01
2142	2.132E+04	1.165E+07	7.827E+02	5.010E+01	1.398E+04	9.392E-01
2143	2.090E+04	1.142E+07	7.672E+02	4.911E+01	1.370E+04	9.206E-01
2144	2.049E+04	1.119E+07	7.520E+02	4.814E+01	1.343E+04	9.024E-01
2145	2.008E+04	1.097E+07	7.371E+02	4.719E+01	1.316E+04	8.845E-01
2146	1.968E+04	1.075E+07	7.225E+02	4.625E+01	1.290E+04	8.670E-01
2147	1.929E+04	1.054E+07	7.082E+02	4.534E+01	1.265E+04	8.498E-01
2148	1.891E+04	1.033E+07	6.942E+02	4.444E+01	1.240E+04	8.330E-01
2149	1.854E+04	1.013E+07	6.804E+02	4.356E+01	1.215E+04	8.165E-01
2150	1.817E+04	9.926E+06	6.669E+02	4.270E+01	1.191E+04	8.003E-01

Appendix 6

EMISSIONS CAP

Please Attach Emission Cap Information

Please Check if not applicable

Instructions

Federally enforceable emissions cap: Please include in Appendix 6 the information required in 1 through 3 below for each federally enforceable emissions cap in Appendix 6. The request for a federally enforceable emissions cap must, at a minimum:

1. State each applicable requirement which the applicant seeks to avoid [NAC 445B.296.2(a)];
2. Demonstrate that any applicable requirements not avoided by the cap will be met [NAC 445B.296.2(b)];
3. Contain proposed conditions, including monitoring and recordkeeping conditions for each proposed federally enforceable emissions cap, of the operating permit which will ensure compliance with any applicable requirement [NAC 445B.296.2(c)].
4. Contain any additional information that the director determines necessary to process the application. [NAC 445B.296.2(d)]

(Note: A common example of an emissions cap is a combined limitation on the yearly (annual) amount of fuel which may be combusted between two boilers.)

Appendix 7

**NARRATIVE
DESCRIPTION**

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PROCESS FLOW DIAGRAM

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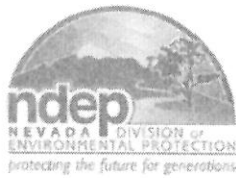
PLOT PLAN

-

MAP

-

DUST CONTROL PLAN

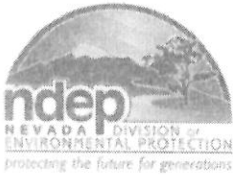


**SURFACE AREA DISTURBANCE PERMIT
FUGITIVE DUST CONTROL PLAN**

I. COMPANY INFORMATION				
COMPANY NAME:	Jungo Land and Investments, Inc.	PERMIT NUMBER: AP		Pending
BUSINESS ADDRESS:	Jungo Road	Winnemucca	Nevada	Humboldt
	(STREET)	(CITY/TOWN)	(STATE)	(COUNTY)
MAILING ADDRESS:	160 Pacific Ave., Suite 200	San Francisco	California	94111
	(STREET/P.O BOX)	(CITY/TOWN)	(STATE)	(ZIP CODE)
PHONE NUMBER:	415-875-1000	FAX NUMBER:	415-875-1154	

II. RESPONSIBLE OFFICIAL (R.O.)				
R.O. NAME	Michael J. Sangiacomo	TITLE	President & Chief Executive Officer	
BUSINESS ADDRESS:	160 Pacific Ave., Suite 200	San Francisco	California	94111
	(STREET)	(CITY/TOWN)	(STATE)	(COUNTY)
MAILING ADDRESS:	160 Pacific Ave., Suite 200	San Francisco	California	94111
	(STREET/P.O BOX)	(CITY/TOWN)	(STATE)	(ZIP CODE)
PHONE NUMBER:	415-875-1000	FAX NUMBER:	415-875-1154	

III. PHYSICAL PLANT				
PROJECT ADDRESS:	Jungo Road	Winnemucca	Nevada	Humboldt
	(STREET)	(CITY/TOWN)	(STATE)	(COUNTY)
MAILING ADDRESS:	160 Pacific Ave., Suite 200	San Francisco	California	94111
	(STREET/P.O BOX)	(CITY/TOWN)	(STATE)	(ZIP CODE)
PHONE NUMBER:	415-875-1000	FAX NUMBER:	415-875-1154	
MAJOR X- STREETS:	None			
SECTION:	7	TOWNSHIP:	35N	RANGE: 33E
UTM:	4,318,248 m N, 379,550 m E (NAD 83)			
PROJECT MAPS: (MARK TYPE OF MAP ATTACHED)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(TRACT)	(SITE)	(TOPOGRAPHIC)	(OTHER -)



**SURFACE AREA DISTURBANCE PERMIT
FUGITIVE DUST CONTROL PLAN**

IV. ACKNOWLEDGEMENT OF ENVIRONMENTAL CONTROL REQUIREMENTS BY R.O.

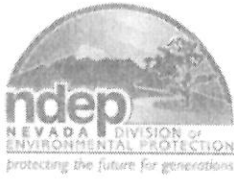
I, Michael J. Sangiacomo, the Responsible Official for Jungo Land & Investments, Inc., have:
(R.O. Name) (Company Name) (1)

read and understand the provisions of Nevada Administrative Code (NAC) Section 445B.22037 "Emissions of Particulate Matter: Fugitive Dust" which requires that we prevent controllable fugitive dust to become airborne on a 7-day/24-hour /day basis at our Project's site; and , (2) read and understand the terms and conditions of our Project's Nevada Division of Environmental Protection Bureau of Air Pollution Control Permit AP Pending.

Signed *Michael J. Sangiacomo* (R.O. Signature) (Permit Number) _____ Date 1/8/09

V. PROJECT OPERATIONS

Description of Project Operations: Construction and operation of a landfill.



**SURFACE AREA DISTURBANCE PERMIT
FUGITIVE DUST CONTROL PLAN**

VI. FUGITIVE DUST CONTROL - BEST PRACTICAL METHODS

Best Practical Methods for controlling fugitive dust (Project Site): The best practical methods (BPMs) to be used for controlling fugitive dust generated at this Project's disturbed areas are as follows. This is not an all inclusive list, other BPMs may also be appropriate for this section (check appropriate BPMs):

- Use of water trucks to spray water on disturbed areas on a regular basis**
 - Pre-watering of areas to be disturbed (including all unpaved onsite roads and staging areas)
 - Graveling of roadways, storage areas and staging areas
- Posting and limiting vehicle speeds to 10-15 miles per hour**
 - Use of wind fences to reduce wind impacts
 - Cessation of all operations when winds make fugitive dust control difficult
- Fencing or berming to prevent unauthorized access to disturbed areas.**
 - Application of water sprays on material storage piles on a regular basis
 - Covering material storage piles with tarpaulin or geo-textiles; tenting
 - Use of overhead water spray rack or water hoses to water down uncovered trucks transporting processed materials prior to leaving Project boundaries.
- Track-out controls
 - Graveled entrance and exit areas
 - Street Sweeping
 - Other
- Subcontractors: Any and all subcontractors (including truck drivers) informed of their responsibilities for the control of fugitive dust while they are on the project site (including haul roads to and from the site). In addition, they will be advised of the best practical methods for controlling their fugitive dust as well as keeping off adjacent areas not covered by the project's permit.
- Training of construction equipment operators to recognize fugitive dust generation and having the authority to shut down operations until water truck arrives and sprays water on the disturbed areas
- Equipment Operator and/or Responsible Official has read and understands the requirements in the Project's Surface Area Disturbance Permit and Plan
- Other Applicable BPM: _____
- Other Applicable BPM: _____
- Other Applicable BPM: _____

VII. PROJECT FUGITIVE DUST/EMISSIONS RESOURCES INFORMATION

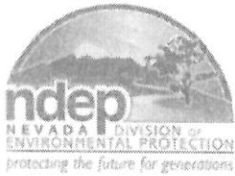
Water Trucks: Water trucks may be owned or rented. In the event that one or more water truck(s) necessary for control of fugitive dust (owned, rented or leased) becomes inoperable, additional water truck(s) will be rented or leased for until such time the water truck(s) are operable. Operable water truck (s) must be available on 7-day/week, 24-hour/day basis.

Number of Water Trucks: 1

Water Truck # 1		Capacity Gallons:	tbd
Water Truck # 2		Capacity Gallons:	
Water Truck # 3		Capacity Gallons:	

Location of water supply for control of fugitive dust:

Water well located on Site Facilities Map, Appendix 7, and Water Storage Tank, location tbd.



**SURFACE AREA DISTURBANCE PERMIT
FUGITIVE DUST CONTROL PLAN**

VII. PROJECT FUGITIVE DUST/EMISSIONS RESOURCES INFORMATION (Continued)

Water Truck and Construction Equipment Operational Log: the daily operations log book for recording the operation of the water truck and construction equipment is maintained on the Project site. The log contains the following information:

- Hours of operation for each water truck and construction equipment (front loader, scraper, etc.) used onsite.
- The daily quantity of water used for fugitive dust control purposes.
- Starting and ending times for the workday.
- Record of water truck (including rental water truck) and construction equipment maintenance, malfunctions and repairs

VIII. NOTIFICATION

Excess Emissions: The following training requirements are recommended as an aid in maintaining compliance with permit terms and conditions and are not mandatory. It is recommended that the R.O. and/or selected equipment operators be given USEPA Method 9 visual emission training (or equivalent, as determined by NDEP) to recognize when the facility's permit's opacity limits are being exceeded and procedures to follow to bring systems back into compliance. It is recommended that all training records be kept with the facility's Process and Emission Control Equipment Operational Log.

IX. TRAINING

Training Requirements: The following training requirements are recommended as an aid in maintaining compliance with permit terms and conditions and are not mandatory. It is recommended that the R.O. and/or selected equipment operators be given USEPA Method 9 visual emission training (or equivalent, as determined by NDEP) to recognize when the facility's permit's opacity limits are being exceeded and procedures to follow to bring systems back into compliance. It is recommended that all training records be kept with the facility's Process and Emission Control Equipment Operational Log.

X. PLAN REVISION

Plan Revision Requirements: In the event there are changes in the operation of the Project, modifications made to the Project's Air Quality Operating Permit or changes to the Nevada Administrative Code affecting this plan, the plan shall be revised to reflect those changes and modifications and resubmitted to the Nevada Division of Environmental Protection for review and evaluation.

Plan Date:	January 8, 2009
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Appendix 8

**ENVIRONMENTAL
EVALUATION
AND
DISPERSION MODELING
FILES**

Please Attach Modeling Files and Supporting Information

Air Quality Modeling Not Required

Appendix 9

APPLICATION CERTIFICATION

Please complete the certification checklist for all forms and information provided in your application submittal. The responsible official must sign and date the application certification found in Appendix 9. *If the application is signed by a person other than the responsible official, as defined in NAC 445B.156, the application will be returned as incomplete.*

Note: According to NAC 445B.156, **Responsible Official** means:

1. For a corporation:
 - (a) A president;
 - (b) A vice president in charge of a principal business function;
 - (c) A secretary;
 - (d) A treasurer; or
 - (e) An authorized representative of such a person who is responsible for the overall operation of the facility and who is designated in writing by the officer of the corporation and approved in advance by the director.
2. For a partnership or sole proprietorship: a general partner or the proprietor, respectively.
3. For a municipality or a state, federal or other public agency: a ranking elected official or a principal executive officer, including, for a federal agency, a chief executive officer who has responsibility for the overall operations of a principal geographic unit of the agency.
4. For an affected source: the designated representative or his alternate, as defined in 42 U.S. C. § 7651 a (26).

APPLICATION CERTIFICATION

Certification of application content consisting of the following:

(Please check each of the appropriate boxes to indicate the information provided in your application submittal)

General Company Information

General Company Information Form

Emission Unit Application Forms (Appendix 1)

- Industrial Process Application Form(s)
 Combustion Equipment Application Form(s)
 Storage Silos Application Form(s)
 Liquid Storage Tank Application Form(s)
 Surface Area Disturbance Form(s)

Insignificant Emissions Unit Information (Appendix 2)

Insignificant Emissions Unit Information Form(s)

Facility-Wide Applicable Requirements (Appendix 3)

Table 1 - Facility-Wide Applicable Requirements

Facility-Wide Potential To Emit Tables (Appendix 4)

- Table 1 - Facility-Wide Potential To Emit
 Table 2 - Insignificant Activities Potential To Emit

Detailed Emissions Calculations (Appendix 5)

Detailed Emissions Calculations Provided

Emissions Cap Information (Appendix 6)

Emissions Cap Information Provided

Process Narrative, Process Flow Diagram, Plot Plan, Map, Dust Control Plan (Appendix 7)

- Process Narrative Provided
 Flow Diagram Provided
 Plot Plan Provided
 Map Provided
 Dust Control Plan Provided

Dispersion Modelling Files (Appendix 8)

Dispersion Modeling Provided

Application Certification (Appendix 9)

Application Certification

Additional Information Requested by the Director

Any Additional Information Required by the Director

PLEASE NOTE THE FOLLOWING REQUIREMENTS WHICH APPLY TO PERMIT APPLICANTS DURING THE APPLICATION PROCESS:

- A. A permit applicant must submit supplementary facts or corrected information upon discovery [NAC 445B.297.1(b)].
- B. A permit applicant is required to provide any additional information which the Director requests in writing within the time specified in the Director's request [NAC 445B.297.1(c)].
- C. Submission of fraudulent data or other information may result in prosecution for an alleged criminal offense (NRS 445B.470).

CERTIFICATION: I certify that, based on information and belief formed after reasonable inquiry, the statements contained in this application are true, accurate and complete.

Signature of Responsible Official

Michael J. Sangiacomo, President and Chief Executive Officer

Print or Type Name **and** Title

Date

APPLICATION CERTIFICATION

Certification of application content consisting of the following:

(Please check each of the appropriate boxes to indicate the information provided in your application submittal)

General Company Information

[X] General Company Information Form

Emission Unit Application Forms (Appendix 1)

- [X] Industrial Process Application Form(s)
[] Combustion Equipment Application Form(s)
[] Storage Silos Application Form(s)
[] Liquid Storage Tank Application Form(s)
[X] Surface Area Disturbance Form(s)

Insignificant Emissions Unit Information (Appendix 2)

[X] Insignificant Emissions Unit Information Form(s)

Facility-Wide Applicable Requirements (Appendix 3)

[X] Table 1 - Facility-Wide Applicable Requirements

Facility-Wide Potential To Emit Tables (Appendix 4)

- [X] Table 1 - Facility-Wide Potential To Emit
[X] Table 2 - Insignificant Activities Potential To Emit

Detailed Emissions Calculations (Appendix 5)

[X] Detailed Emissions Calculations Provided

Emissions Cap Information (Appendix 6)

[] Emissions Cap Information Provided

Process Narrative, Process Flow Diagram, Plot Plan, Map, Dust Control Plan (Appendix 7)

- [X] Process Narrative Provided
[X] Flow Diagram Provided
[X] Plot Plan Provided
[X] Map Provided
[X] Dust Control Plan Provided

Dispersion Modelling Files (Appendix 8)

[] Dispersion Modeling Provided

Application Certification (Appendix 9)

[X] Application Certification

Additional Information Requested by the Director

[] Any Additional Information Required by the Director

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CERTIFICATION: I certify that, based on information and belief formed after reasonable inquiry, the statements contained in this application are true, accurate and complete.

[Handwritten Signature]

Signature of Responsible Official

Michael J. Sangiacomo, President and Chief Executive Officer

Print or Type Name and Title

1/8/09

Date