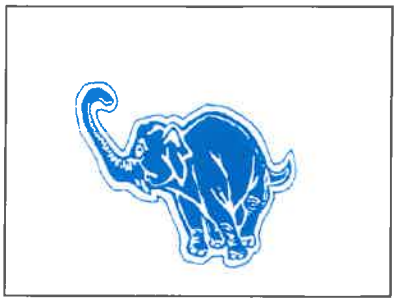

Wetzel County Landfill
Rt. 1, Box 156A
New Martinsville, WV 26155
304-455-3800
304-455-6290 fax

RECEIVED
MAY 11 2016
WV DEP / DIV OF AIR QUALITY

May 9, 2016

West Virginia Department of Environmental Protection
Division of Air Quality
601 – 57th Street SE
Charleston WV 25304

Attn: Title V Program Manager

RE: Lackawanna Transport Company Title V renewal

Dear Title V Program Manager:

Enclosed we hereby submit two binders and two CDs with documents for renewal of the Title V permit for Wetzel County Sanitary Landfill. In addition to the enclosed documents, please note that the draft permit should be modified to reflect the 533 hp diesel crusher, which is listed as stationary in Section 8 of the existing Title V, should be permitted as a mobile unit with the associated requirements.

If you have any questions or are in need of any additional information, please do not hesitate to contact me at 267-933-6120 or jon.march@jpmascaro.com. Thank you.

Sincerely

Jonathan T. March, PE
WCL Engineer

TABLE OF CONTENTS

SECTION	DESCRIPTION
1.0	General Forms – Title V Permit Application Renewal
A	Area Map
B	Plot Plans (Sheets 1 and 2)
C	Process Flow Diagram
D	Title V Equipment Table
E	Emission Unit Form
G	Air Pollution Control Device Form
H	Compliance Assurance Monitoring (CAM) Plan Form
2.0	LandGEM Results

TITLE V PERMIT APPLICATION CHECKLIST
FOR ADMINISTRATIVE COMPLETENESS

A complete application is demonstrated when all of the information required below is properly prepared, completed and attached. The items listed below are required information which must be submitted with a Title V permit application. Any submittal will be considered incomplete if the required information is not included.*	
☒	Two signed copies of the application (at least one must contain the original "*Certification*" page signed and dated in blue ink)
☒	Correct number of copies of the application on separate CDs or diskettes, (i.e. at least one disc per copy)
☒	*Table of Contents (needs to be included but not for administrative completeness)
☒	Facility information
☒	Description of process and products, including NAICS and SIC codes, and including alternative operating scenarios
☒	Area map showing plant location
☐	Plot plan showing buildings and process areas
☐	Process flow diagram(s), showing all emission units, control equipment, emission points, and their relationships
☒	Identification of all applicable requirements with a description of the compliance status, the methods used for demonstrating compliance, and a Schedule of Compliance Form (ATTACHMENT F) for all requirements for which the source is not in compliance
☒	Listing of all active permits and consent orders (if applicable)
☒	Facility-wide emissions summary
☒	Identification of Insignificant Activities
☒	ATTACHMENT D - Title V Equipment Table completed for all emission units at the facility except those designated as insignificant activities
☒	ATTACHMENT E - Emission Unit Form completed for each emission unit listed in the Title V Equipment Table (ATTACHMENT D) and a Schedule of Compliance Form (ATTACHMENT F) for all requirements for which the emission unit is not in compliance
☒	ATTACHMENT G - Air Pollution Control Device Form completed for each control device listed in the Title V Equipment Table (ATTACHMENT D)
☒	ATTACHMENT H – Compliance Assurance Monitoring (CAM) Plan Form completed for each control device for which the "Is the device subject to CAM?" question is answered "Yes" on the Air Pollution Control Device Form (ATTACHMENT G)
☒	General Application Forms signed by a Responsible Official
☐	Confidential Information submitted in accordance with 45CSR31

SECTION 1.0

GENERAL FORMS
TITLE V PERMIT APPLICATION RENEWAL

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY
601 57th Street SE
Charleston, WV 25304
Phone: (304) 926-0475
www.dep.wv.gov/daq

INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

1. **Name of Applicant (As registered with the WV Secretary of State's Office):**	**2. Facility Name or Location:**
Mr. Pasquale Mascaro	Lackawanna Transport Company Wetzel County Landfill
3. DAQ Plant ID No.:	**4. Federal Employer ID No. (FEIN):**
103 — 00034	550675756

5. **Permit Application Type:**

☐ Initial Permit — When did operations commence? 01/01/1960
☒ Permit Renewal — What is the expiration date of the existing permit? 04/30/2007
☐ Update to Initial/Renewal Permit Appl3ication

6. Type of Business Entity:	**7. Is the Applicant the:**
☐ Corporation ☐ Governmental Agency ☐ LLC ☐ Partnership ☐ Limited Partnership	☐ Owner ☐ Operator ☒ Both If the Applicant is not both the owner and operator, please provide the name and address of the other party. _____ _____ _____
8. Number of onsite employees:	

9. Governmental Code:

☒ Privately owned and operated; 0
☐ Federally owned and operated; 1
☐ State government owned and operated; 2
☐ County government owned and operated; 3
☐ Municipality government owned and operated; 4
☐ District government owned and operated; 5

10. Business Confidentiality Claims

Does this application include confidential information (per 45CSR31)? ☐ Yes ☒ No

If yes, identify each segment of information on each page that is submitted as confidential, and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's *"PRECAUTIONARY NOTICE-CLAIMS OF CONFIDENTIALITY"* guidance.

11. Mailing Address		
Street or P.O. Box: 1 Landfill Rd		
City: New Martinsville	**State:** WV	**Zip:** 26155-
Telephone Number: 304-455-3800	**Fax Number:** 304-455-2955	

12. Facility Location		
Street: 1 Landfill Rd	**City:** New Martinsville, WV 26155	**County:** US
UTM Easting: 512.33 km	**UTM Northing:** 4,383.75 km	**Zone:** ☒ 17 or ☐ 18
Directions: from the city of New Martinsville, take Route 2 south one mile. Make a left onto Rt. 180 to the landfill.		
Portable Source? ☐ Yes ☒ No		
Is facility located within a nonattainment area? ☐ Yes ☒ No		**If yes, for what air pollutants?**
Is facility located within 50 miles of another state? ☒ Yes ☐ No		**If yes, name the affected state(s).** PA OH
Is facility located within 100 km of a Class I Area[1]? ☐ Yes ☒ No **If no, do emissions impact a Class I Area[1]?** ☐ Yes ☒ No		**If yes, name the area(s).**

[1] *Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.*

13. Contact Information		
Responsible Official: Mr. Pasquale Mascaro		**Title:** President
Street or P.O. Box: 2650 Audubon Rd		
City: Audubon	**State:** PA	**Zip: 19403-**
Telephone Number: (484) 398-6500	**Fax Number:** (267) 933-6121	
E-mail address: jon.march@jpmascaro.com		
Environmental Contact: Mr. Michael D'Aurora		**Title:** General Manager
Street or P.O. Box: 1 Landfill Rd		
City: New Martinsville	**State:** WV	**Zip: 26155-**
Telephone Number: (304) 455-3800	**Fax Number:** (304) 455-2955	
E-mail address: mike.daurora@jpmascaro.com		
Application Preparer: Jonathan March, P.E.		**Title:** Corporate Engineer
Company: Solid Waste Services, Inc		
Street or P.O. Box: 2650 Audubon Rd		
City: Audubon	**State:** PA	**Zip: 19403-**
Telephone Number: (267) 933-6120	**Fax Number:** (267) 933-6121	
E-mail address: jon.march@jpmascaro.com		

14. Facility Description

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC
Municipal Solid Waste Landfill	N/A		4953

Provide a general description of operations.

The facility is a 238-acre municipal solid waste landfill which began operation in the 1960's. The disposal area is 139 acres. The maximum monthly tonnage accepted is 9,999 tons/month. The landfill accepts municipal solid waste, construction/demolition debris (CDD), and approved residual waste. There is a biosolids composting facility at the landfill which began operation in 2001.

15. Provide an **Area Map** showing plant location as **ATTACHMENT A**.

16. Provide a **Plot Plan(s)**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as **ATTACHMENT B**. For instructions, refer to "Plot Plan - Guidelines."

17. Provide a detailed **Process Flow Diagram(s)** showing each process or emissions unit as **ATTACHMENT C**. Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

Section 2: Applicable Requirements

18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
☐ SIP	☐ FIP
☒ Minor source NSR (45CSR13)	☐ PSD (45CSR14)
☐ NESHAP (45CSR34)	☐ Nonattainment NSR (45CSR19)
☐ Section 111 NSPS	☐ Section 112(d) MACT standards
☐ Section 112(g) Case-by-case MACT	☐ 112(r) RMP
☐ Section 112(i) Early reduction of HAP	☐ Consumer/commercial prod. reqts., section 183(e)
☐ Section 129 Standards/Reqts.	☐ Stratospheric ozone (Title VI)
☐ Tank vessel reqt., section 183(f)	☐ Emissions cap 45CSR§30-2.6.1
☐ NAAQS, increments or visibility (temp. sources)	☐ 45CSR27 State enforceable only rule
☒ 45CSR4 State enforceable only rule	☐ Acid Rain (Title IV, 45CSR33)
☐ Emissions Trading and Banking (45CSR28)	☐ Compliance Assurance Monitoring (40CFR64)
☐ CAIR NO_x Annual Trading Program (45CSR39)	☐ CAIR NO_x Ozone Season Trading Program (45CSR40)
☐ CAIR SO_2 Trading Program (45CSR41)	

19. Non Applicability Determinations
List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

☐ Permit Shield

19. Non Applicability Determinations *(Continued)* *- Attach additional pages as necessary.*

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

☐ Permit Shield

20. Facility-Wide Applicable Requirements

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (***Note: Title V permit condition numbers alone are not the underlying applicable requirements***).

☐ Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

20. Facility-Wide Applicable Requirements *(Continued)* - *Attach additional pages as necessary.*

List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number.

The rule citations are as follows:

45 C.S.R. 6- Open burning prohibited

45 C.S.R. 11- Standby plans for emergency episodes

WV Code 22-5-4(14)- The Chief can request any pertinent information such as annual emission inventory reporting.

45 C.S.R. 23- Municipal Solid Waste Landfills

45 C.S.R. 30- Operating permit requirement

40CFR61- Asbestos inspection and removal

40CFR 60- Subpart WWW

40CFR60.11b-Subpart Kb

45 C.S.R. 4- No objectionable odors

45 C.S.R- 17_Particulate matter control program

☐ Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/ reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

REQUIREMENT	PERMIT CONDITION #	POLLUTANT/PARAMETER	COMPLIANCE
CSR 45-6-3.1	III.B.1.a.i	Refuse	N/A
40CFR61.145,61.148, & 61.150	III.B.1.a.iii	Asbestos	N/A
CSR 45-30-4.3.h.1.B	III.B.1.a.iv	Any newly applicable requirement	N/A
WV Code 22-5-4(a)(15)	III.B.1.a.v.	Testing	N/A
CSR 45-4-3.1	III.B.1.b.	any air pollutant	REPORTING
CSR 45-11-5.2	III.B.2.a.i	any regulated air pollutant	N/A
CSR 45-17	III.B.2.b.i.	Particulate matter	Submission of Control program
CSR 45-23/40CFR60.757(a)	III.B.2.a.ii	Solid waste	Volume calculation
40CFR60.752,753,755,756	III.B.2.a.iii/iv(a)-(h)	NMOC	recordkeeping & report
40CFR60.752,60.18	III.B.2.a.iv.(i)-(m)	NMOC	recordkeeping & report
WV Code 22-5-4(a)(14)	III.B.2 .a.v	Criteria air pollutants	report
40CFR60.116b(b)	III.B.2.a.vi.	vessel dimensions	recordkeeping
40CFR60.116b(d)	III.B.2.a.vii	Maximum true vapor pressure	Notification
40CFR61.154	III.B.2.a.viii	Asbestos	recordkeeping & report
CSR 45-23,40CFR60.757,758	N/A	Closure report	recordkeeping
40CFR63.1955 (c)	N/A	recordkeeping & report	
40CFR63.1960	N/A	recordkeeping & report	

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

21. Active Permits/Consent Orders		
Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit *(if any)*
R30-10300034-2007	03/13/2007	
CONSENT ORDER	02/27/2002	
R13-2463	05/15/2002	
R13-2476A	12/17/2004	
R13-2731	05/07/2007	
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22. Inactive Permits/Obsolete Permit Conditions		
Permit Number	Date of Issuance	Permit Condition Number
	MM/DD/YYYY	
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Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	18.60
Nitrogen Oxides (NO_X)	10.65
Lead (Pb)	N/A
Particulate Matter ($PM_{2.5}$)[1]	1.278
Particulate Matter (PM_{10})[1]	8.52
Total Particulate Matter (TSP)	50
Sulfur Dioxide (SO_2)	14.59
Volatile Organic Compounds (VOC)	36.22
Hazardous Air Pollutants[2]	Potential Emissions
See attached sheet on next page for list	
Regulated Pollutants other than Criteria and HAP	Potential Emissions
Carbon Dioxide	5670
Methane	2067

[1] *$PM_{2.5}$ and PM_{10} are components of TSP.*
[2] *For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.*

Wetzel County Landfill
Harardous Air Pollutants

Pollutant	Description	Potential emissions (tons/year)
100414	Ethyl Benzene	0.1378
107062	Ethylene Dichloride	0.0117
107131	Acrylonitrile	0.0949
108101	Methyl Isobutyl Ketone	0.0533
108883	Toluene	1.0179
108907	Chlorobenzene	0.0078
110543	Hexane	0.1612
127184	Tetrachloroethylene	0.1742
1330207	Xylenes	0.3614
463581	Carbonyl Sulfide	0.0078
56235	Carbon Tetrachloride	0.001
67663	Chloroform	0.0013
71432	Benzene	0.0416
71556	Methyl Chloroform	0.0182
7439976	Mercury	0.0001
75003	Ethyl Chloride	0.0234
75014	Vinyl Chloride	0.1287
75092	Methylene Chloride	0.3367
75150	Carbon Disulfide	0.013
75343	Ethylidene Dichloride	0.0676
75354	Vinylidene Chloride	0.0052
78875	Propylene Dichloride	0.0052
79016	Trichloroethylene	0.104
79345	1,1,2,2-Tetrachloroethane	0.052

Section 4: Insignificant Activities

24. Insignificant Activities (Check all that apply)		
☒	1.	Air compressors and pneumatically operated equipment, including hand tools.
☒	2.	Air contaminant detectors or recorders, combustion controllers or shutoffs.
☒	3.	Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
☒	4.	Bathroom/toilet vent emissions.
☒	5.	Batteries and battery charging stations, except at battery manufacturing plants.
☒	6.	Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
☐	7.	Blacksmith forges.
☐	8.	Boiler water treatment operations, not including cooling towers.
☒	9.	Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
☐	10.	CO_2 lasers, used only on metals and other materials which do not emit HAP in the process.
☒	11.	Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
☒	12.	Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
☒	13.	Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
☐	14.	Demineralized water tanks and demineralizer vents.
☐	15.	Drop hammers or hydraulic presses for forging or metalworking.
☐	16.	Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
☐	17.	Emergency (backup) electrical generators at residential locations.
☒	18.	Emergency road flares.
☒	19.	Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO_x, SO_2, VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units. Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis: Above AST 3000 gal diesel tank Above AST 500 gal diesel tank Above AST 375 gal motor oil tank Above AST 375 gal hydraulic oil tank Above AST 375 gal waste oil tank Above AST 8000 gal alum tank ____ ____

24. Insignificant Activities (Check all that apply)		
☐	20.	Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27. Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis: _____ _____ _____ _____ _____
☐	21.	Environmental chambers not using hazardous air pollutant (HAP) gases.
☒	22.	Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
☒	23.	Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
☒	24.	Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
☒	25.	Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
☒	26.	Fire suppression systems.
☒	27.	Firefighting equipment and the equipment used to train firefighters.
☒	28.	Flares used solely to indicate danger to the public.
☒	29.	Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
☒	30.	Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
☒	31.	Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
☐	32.	Humidity chambers.
☐	33.	Hydraulic and hydrostatic testing equipment.
☒	34.	Indoor or outdoor kerosene heaters.
☒	35.	Internal combustion engines used for landscaping purposes.
☐	36.	Laser trimmers using dust collection to prevent fugitive emissions.
☐	37.	Laundry activities, except for dry-cleaning and steam boilers.
☐	38.	Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
☐	39.	Oxygen scavenging (de-aeration) of water.
☒	40.	Ozone generators.

24. Insignificant Activities (Check all that apply)		
☒	41.	Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
☒	42.	Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
☐	43.	Process water filtration systems and demineralizers.
☒	44.	Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
☒	45.	Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
☐	46.	Routing calibration and maintenance of laboratory equipment or other analytical instruments.
☐	47.	Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
☐	48.	Shock chambers.
☐	49.	Solar simulators.
☒	50.	Space heaters operating by direct heat transfer.
☒	51.	Steam cleaning operations.
☐	52.	Steam leaks.
☐	53.	Steam sterilizers.
☐	54.	Steam vents and safety relief valves.
☐	55.	Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
☒	56.	Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
☒	57.	Such other sources or activities as the Director may determine.
☒	58.	Tobacco smoking rooms and areas.
☐	59.	Vents from continuous emissions monitors and other analyzers.

Section 5: Emission Units, Control Devices, and Emission Points

25. Equipment Table
Fill out the **Title V Equipment Table** and provide it as **ATTACHMENT D**.
26. Emission Units
For each emission unit listed in the **Title V Equipment Table**, fill out and provide an **Emission Unit Form** as **ATTACHMENT E**.
For each emission unit not in compliance with an applicable requirement, fill out a **Schedule of Compliance Form** as **ATTACHMENT F**.
27. Control Devices
For each control device listed in the **Title V Equipment Table**, fill out and provide an **Air Pollution Control Device Form** as **ATTACHMENT G**.
For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the **Compliance Assurance Monitoring (CAM) Form(s)** for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as **ATTACHMENT H**.

Section 6: Certification of Information

28. Certification of Truth, Accuracy and Completeness and Certification of Compliance

*Note: This Certification must be signed by a responsible official. The **original**, signed in **blue ink**, must be submitted with the application. Applications without an **original** signed certification will be considered as incomplete.*

a. Certification of Truth, Accuracy and Completeness

I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.

b. Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

Responsible official (type or print)	
Name: Mr. Pasquale N. Mascaro	Title: Presdient

Responsible official's signature:

Signature: _____ Signature Date: 5/9/16

(Must be signed and dated in blue ink)

Note: Please check all applicable attachments included with this permit application:	
☒	ATTACHMENT A: Area Map
☒	ATTACHMENT B: Plot Plan(s)
☒	ATTACHMENT C: Process Flow Diagram(s)
☒	ATTACHMENT D: Equipment Table
☒	ATTACHMENT E: Emission Unit Form(s)
☐	ATTACHMENT F: Schedule of Compliance Form(s)
☒	ATTACHMENT G: Air Pollution Control Device Form(s)
☒	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

All of the required forms and additional information can be found and downloaded from, the DEP website at www.dep.wv.gov/daq, requested by phone (304) 926-0475, and/or obtained through the mail.

ATTACHMENT A

AREA MAP

WETZEL COUNTY LANDFILL
LOCATION MAP

12

ATTACHMENT B

PLOT PLANS (SHEETS 1 AND 2)

NORTH

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)

1 inch = 100 ft.

*COORDINATE SYSTEM BASED ON NAD 83

LEGEND

- PERMIT AREA – 235 ACRES (REVISED PER RYAN K. INCH LETTER DATED 12-4-14, AMENDED 1-6-15)
- 245 ACRE LANDFILL PROPERTY LINE
- 1160.3 EXISTING SPOT ELEVSTION
- 1075 EXISTING ELEVATIONS 5FT INTERVALS
- 1075 PROPOSED ELEVATIONS (SUBGRADE), 5 FT INTERVALS
- PROPOSED DISPOSAL ANCHOR / LIMIT
- DIVIDING LINE DEDICATED DRILL CUTTING CELL / MSW LANDFILL
- EXISTING DISPOSAL ANCHOR / LIMIT
- PROPOSED LEACHATE COLLECTION PIPE
- EXISTING LEACHATE COLLECTION PIPE
- 1075 BORROW AREA GRADING 25 FT INTERVALS
- EXISTING 4" HDPE GASLINE (SIZE AS NOTED)
- GMW-6 EXISTING GAS WELL
- CD EXISTING CONDENSATE DRAIN
- 129-ACRE DISPOSAL LIMIT (SEE RYAN K. INCH LETTER DATED DECEMBER 4, 2014)

E1,615,500 E1,616,000 E1,616,500 E1,617,000 E1,617,500 E1,618,000

N406,500 N406,000 N405,500 N405,000 N404,500 N404,000 N403,500

3/I 4-INCH PERF. LEACHATE COLLECTION PIPES

10' INTERMEDIATE BERM 3/F1

(2) 4 IN HDPE LEACHATE DETECTION PIPES & (2) 8 IN HDPE COLLECTION PIPES

3/H1 3/H2

CELL 7 MSW 2014-2.94AC

10' WIDE INTERMEDIATE BERM 5' HEIGHT

MONITORING WELL 7 CLUSTER

EXISTING LEACHATE COLLECTION AND DETECTION PIPES 3/H1 (TO BE EXTENDED UPSLOPE)

8-INCH HDPE LEACHATE SAMPLING PORT (TO BE EXTENDED UPSLOPE WHEN CELL 8 IS CONSTRUCTED - SEE NOTE 1)

TOP BERM 1055

LEACHATE COLLECTION PIPES (CLEANOUT TERMINATION POINTS) 3/A/J REFER TO DETAIL 3/J FOR DETECTION LINER PENETRATION

EXISTING ROAD TO MAINTENANCE SHOP 3/G

10' PERIMETER ANCHOR TRENCH 3/F 3/C1

3/D PERIMETER STORMWATER CHANNEL

LEACHATE COLLECTION CLEANOUTS 3/A

EXISTING CELL 6 3.45 ACRES

(2) 4 IN HDPE LEACHATE DETECTION & (2) 8 IN HDPE LEACHATE COLLECTION PIPES 3/H

EXISTING LAW 5B 1.18 ACRES

TIE-IN TO EXISTING 3/B

EXISTING LAW 5A 0.65 ACRES

8" LEACHATE COLLECTION PIPE

CELL 7A MSW EXISTING-5.64 AC

3/C3 ASBESTOS AREA CAP

EXISTING LAW 4 3.85 ACRES

8"X12" REDUCER

36.0'

15' WIDE INTERMEDIATE BERM 5' HEIGHT

3/G REGRADE/RE-ALIGN ROAD TO SHOP

PERIMETER ACCESS ROAD

WELL PAD
NAD 83
LAT: 39d 36' 21.66"
LON: 80d 51' 24.29"

PROPERTY:
MB INVESTMENTS
TAX MAP:12
PARCEL:134

15' INTERMEDIATE BERM 3/F1

EXISTING EDGE OF LINER

LIMIT OF PHASE 7 LINER CONSTRUCTION = 0.91 ACRES

CELL 8 DEDICATED FUTURE-14.2 AC

MAINTENANCE SHOP

#3 ELEV 1187.41

LEACHATE COLLECTION PIPES (CLEANOUT TERMINATION POINTS) REFER TO DETAIL 3/J FOR DETECTION LINER PENETRATION

10' PERIMETER ANCHOR TRENCH 3/F 3/C1

3/I 4-INCH PERF. LEACHATE COLLECTION PIPES

DEDICATED DRILL CUTTING DISPOSAL CELL

LEACHATE COLLECTION PIPES (CLEANOUT TERMINATION POINTS) 3/A/J REFER TO DETAIL 3/J FOR DETECTION LINER PENETRATION

3/H2

GW-MW 8

EXISTING LAW 1 8.3 ACRES

EXISTING LAW 2 2.0 ACRES

EXISTING LAW 3 4.23 ACRES

EXISTING LAW 3A 2.6 ACRES

EXISTING HORIZONTAL COLLECTOR

HGC

8" LEACHATE COLLECTION PIPE

CLEAN OUT

EXISTING 8" HDPE GASLINE

GMW-18

GMW-4

12" HDPE GASLINE ENDS
8" HDPE GASLINE BEGINS

GMW-3 8" HDPE GASLINE

EXISTING 6" HDPE GASLINE

GMW-2

GMW-5

GMW-6

GMW-7

4"

CLEAN OUT

GMW-8

GMW-9

GMW-10

GMW-12

EXISTING 12" HDPE GASLINE

EXISTING LAW 2A 5.62 ACRES

12" LEACHATE COLLECTION PIPE

15' WIDE INTERMEDIATE BERM 5' HEIGHT

1025.0 SPOT

1027 SPOT

1020 SPOT

EXISTING LEACHATE MANHOLE 962.8 FT-MSL

8" HDPE COMPOST LEACHATE DISCHARGE LINE TO LEACHATE COLLECTION SYSTEM

5'x5' JUNCTION BOX

8" PVC LEACHATE SEWER FROM COMPOST BUILDING

240,000 SQFT COMPOST BUILDING

240,000 SQFT STABILZATION BUILDING

LEACHATE COLLECTION PIPES (CLEANOUT TERMINATION POINTS) REFER TO DETAIL 3/J FOR DETECTION LINER PENETRATION

TOP GRATE 1023.5 (INVERT 1019.5

STORAGE FACILITY (FORMER COMPOSTING FACILITY)

NOTE 1: LEACHATE IN CELL 8 WILL BE SAMPLED THROUGH THE DESIGNATED SAMPLING PORT VIA SUBMERSIBLE PUMP AS PER 33 CSR 5.6.B.3

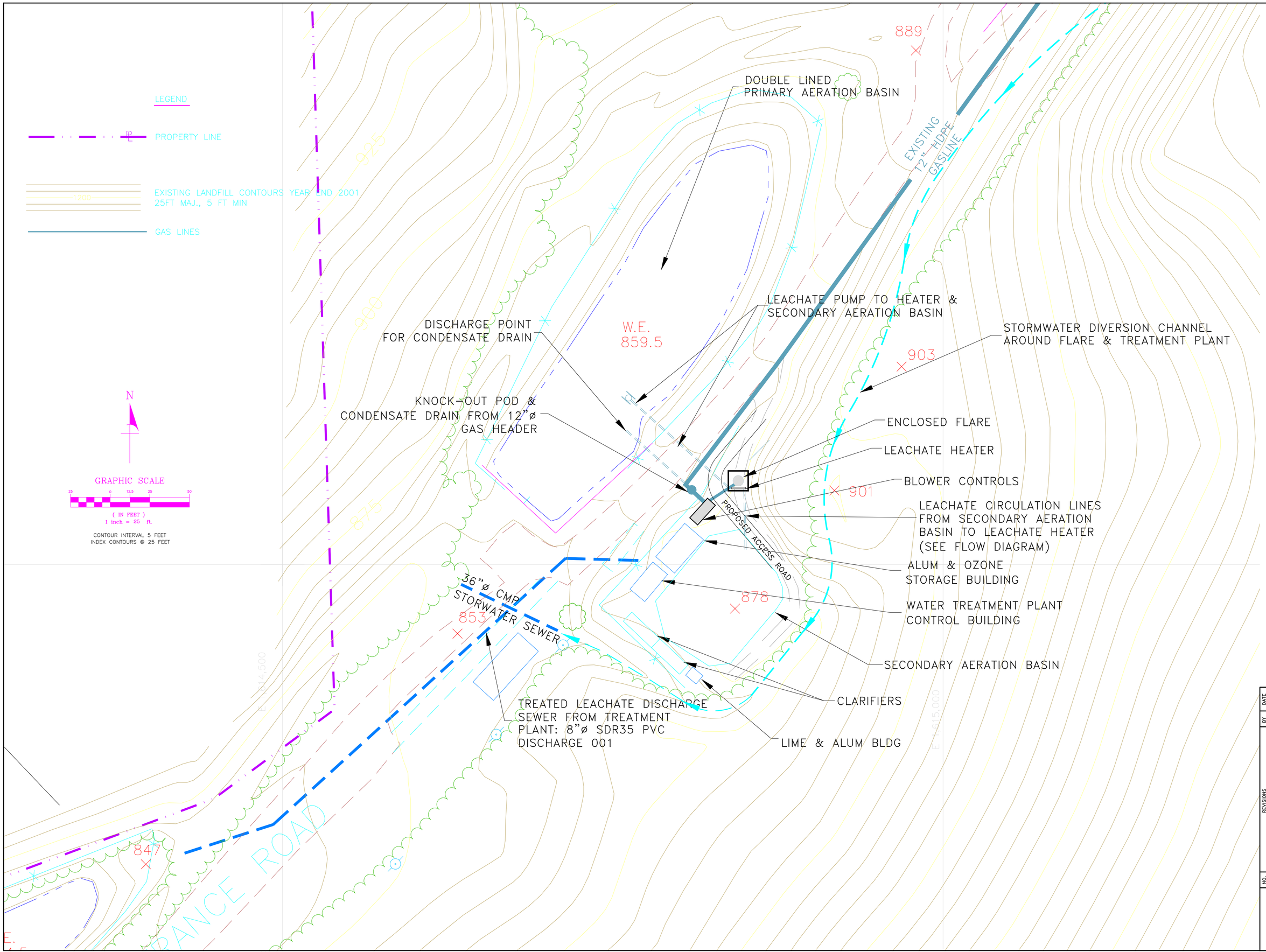
NO.	REVISIONS	BY	DATE

WETZEL COUNTY SANITARY LANDFILL
LACKAWANNA TRANSPORT COMPANY
PERMIT NO. SWF-1021/WV0109185

WETZEL COUNTY SANITARY LANDFILL
RT. 1, BOX 156A
NEW MARTINSVILLE, WV 26155
PHONE (304) 455-3800

WETZEL COUNTY SANITARY LANDFILL
PROGRESS MAP NORTH

CHECKED	PROJECT	DATE:
R.K.I.	WETZEL	5/2/16
DRAWN	CADD FILE	SHEET
J.T.M.	PERMIT RENEWAL	1



WETZEL COUNTY SANITARY LANDFILL
TITLE V RENEWAL
SHEET 2 OF 2

WETZEL COUNTY SANITARY LANDFILL
RT. 1, BOX 156A
NEW MARTINSVILLE, WV 26155
PHONE (304) 455-3800

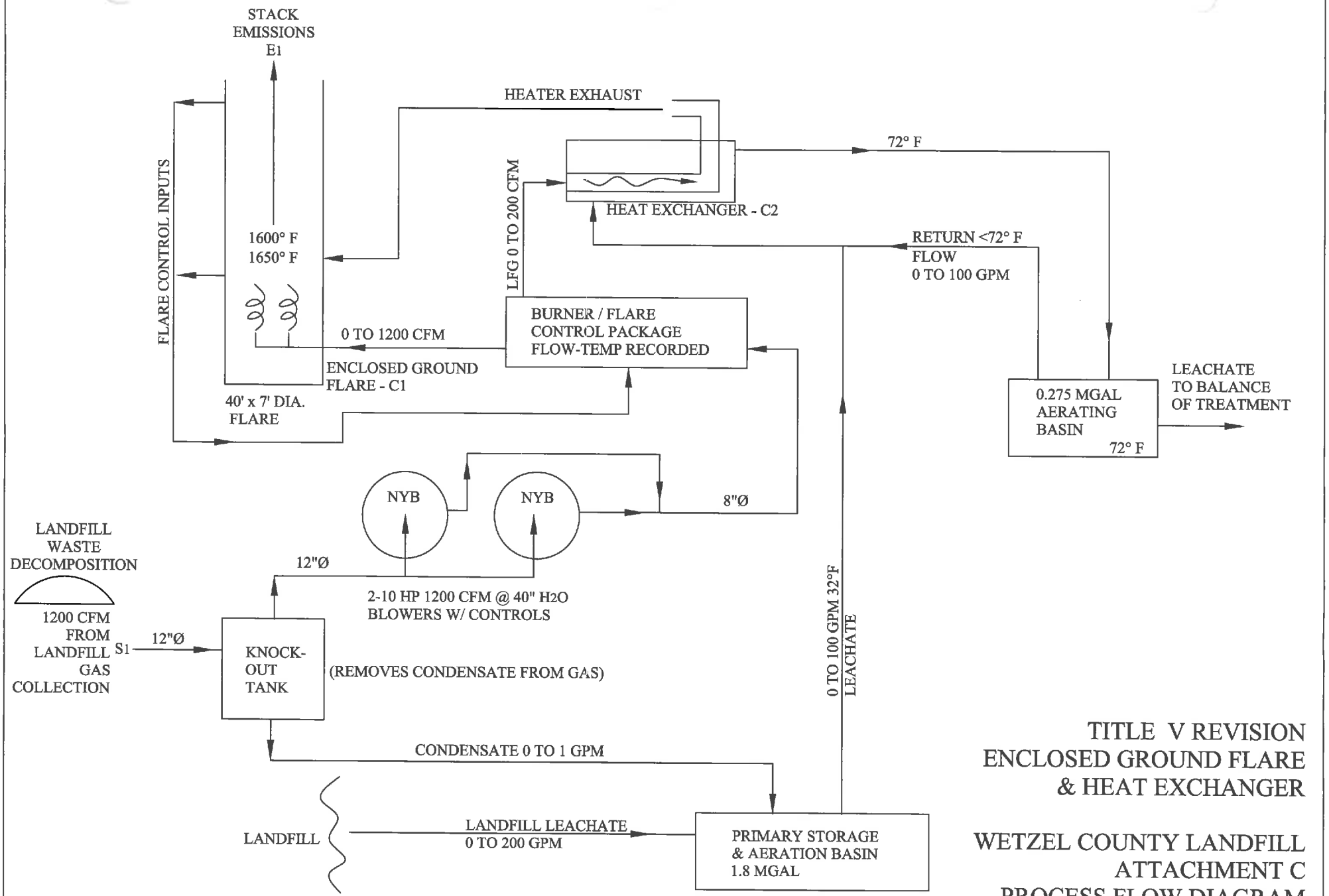
WETZEL COUNTY SANITARY LANDFILL
LACKAWANNA TRANSPORT COMPANY
PERMIT NO. SWF-1021/WV0109185

CHECKED	PROJECT	DATE:
R.K.I.	WETZEL	8/25/11
DRAWN	CADD FILE	SHEET
J.T.M.	GAS	2 OF 2

NO.	REVISIONS	BY	DATE

ATTACHMENT C

PROCESS FLOW DIAGRAM



TITLE V REVISION
ENCLOSED GROUND FLARE
& HEAT EXCHANGER

WETZEL COUNTY LANDFILL
ATTACHMENT C
PROCESS FLOW DIAGRAM

ATTACHMENT D

TITLE V EQUIPMENT TABLE

ATTACHMENT D - Title V Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Point ID[1]	Control Device[1]	Emission Unit ID[1]	Emission Unit Description	Design Capacity	Year Installed/ Modified
01-CL1	01-F1	CL1	CLOSURE AREA-CLOSED & CAPPED	607,580	PRE-1999
01-A1	01-F1	A1	LAW-1	249,500	1993
01-A2	01-F1	A2	LAW-2	207,750	1996
01-A3	01-F1	A3	LAW-3	297,560	1999
01-A4	01-F1	A4	LAW-4	258,550	2009
01-A5	01-F1	A5	LAW-5	285,800	2009
01-A6	01-F1	A6	CELL-6	225,516	2013
01-A7	01-F1	A7	CELL-7	141,610	2015
01-A8	01-F1	A8	LAW-5A – ASBESTOS (CLOSED)	25,000	1999
01-A9	01-F1	A9	FUTURE AREA – CELL 7A & CELL 8	2,151,820	FUTURE
01-F1		F1	FLARE	1200scfm	1997
01-C1		C1	PRIMARY CLARIFIER	11,000 gals	1997
01-C2		C2	SECONDARY CLARIFIER	11,000 gals	1997
01-P1		P1	PAVED ROAD	1000 FT +/-	PRE-1999
01-UP1		UP1	UNPAVED ROAD	I MILE +/-	N/A

[1]For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points.

ATTACHMENT E

EMISSION UNIT FORM

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
CL1, A1 TO A8	CLOSED AREA AND ACTIVE AREAS	CAP & FLARE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
CLOSED AND CAPPED LANDFILL AREA AND ACTIVE LANDFILL CELLS

Manufacturer:	**Model number:**	**Serial number:**
N/A	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
1993	MM/DD/YYYY	MM/DD/YYYY

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 15,240,787 cf

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
N/A	N/A	N/A

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes __X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		18.60
Nitrogen Oxides (NO_X)		10.65
Lead (Pb)		N/A
Particulate Matter ($PM_{2.5}$)		1.278
Particulate Matter (PM_{10})		8.52
Total Particulate Matter (TSP)		50
Sulfur Dioxide (SO_2)		14.59
Volatile Organic Compounds (VOC)		36.22
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
*see attached list		
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
Methane		2067
Carbon Dioxide		5670

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

____ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Are you in compliance with all applicable requirements for this emission unit? X Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT G

AIR POLLUTION CONTROL DEVICE

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 01-F1	**List all emission units associated with this control device.** CL1, A1,A2,A3,A$.A5,A6,A7,A8	
Manufacturer: Quality Combustion Inc.	**Model number:** Enclosed MRW	**Installation date:** 1997

Type of Air Pollution Control Device:

___ Baghouse/Fabric Filter	___ Venturi Scrubber	___ Multiclone
___ Carbon Bed Adsorber	___ Packed Tower Scrubber	___ Single Cyclone
___ Carbon Drum(s)	___ Other Wet Scrubber	___ Cyclone Bank
___ Catalytic Incinerator	___ Condenser	___ Settling Chamber
___ Thermal Incinerator	__x_ Flare	___ Other (describe) _____
___ Wet Plate Electrostatic Precipitator		___ Dry Plate Electrostatic Precipitator

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
Landfill Gases	98%	98.6%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

The flare is 7 feet in outside diameter by 35 feet in height. Its system capacity is 1200 SCFM with 50% methane and 50% carbon dioxide and other inert gasses. Minimum destruction efficiency is 98% at 1600 to 1800 degrees Fahrenheit. High temperature shutdown point is 2000^0 F and low temperature alarm is 1200 ^{0}F.

Is this device subject to the CAM requirements of 40 C.F.R. 64? ___ Yes _x__ No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.**

Describe the parameters monitored and/or methods used to indicate performance of this control device.
Testing performed includes:
LFG flow rate, Flare Stack temperature, and status of heat exchanger. Gas moisture and flow rate were determined by USEPA Method 2C, "Determination of Stack Gas Velocity and Volumetric Flow Rate in Small Stacks or Ducts (Standard Pitot Tube)" USEPA Method 4, "Determination of Moisture Content in Stack Gases". USEPA Method 2B" Determination of Exhaust Gas Volume Flow Rate from Gasoline Vapor Incinerators" USEPA Method 3A, O_2 and CO_2 Determinations (outlet). USEPA Method 3C O_2 and CO_2 determinations (inlet). USEPA Method 10, co determination. USEPA Method 25A THC and USEPA Method 18 Methane determination.

ATTACHMENT H

COMPLIANCE ASSURANCE MONITORING (CAM) PLAN FORM

ATTACHMENT H - Compliance Assurance Monitoring (CAM) Plan Form

For definitions and information about the CAM rule, please refer to 40 CFR Part 64. Additional information (including guidance documents) may also be found at http://www.epa.gov/ttn/emc/cam.html

CAM APPLICABILITY DETERMINATION

1) Does the facility have a PSEU (Pollutant-Specific Emissions Unit considered separately with respect to **EACH** regulated air pollutant) that is subject to CAM (40 CFR Part 64), which must be addressed in this CAM plan submittal? To determine applicability, a PSEU must meet **all** of the following criteria (*If No, then the remainder of this form need not be completed*): ☐ YES ☒ NO

a. The PSEU is located at a major source that is required to obtain a Title V permit;

b. The PSEU is subject to an emission limitation or standard for the applicable regulated air pollutant that is NOT exempt;

LIST OF EXEMPT EMISSION LIMITATIONS OR STANDARDS:

- NSPS (40 CFR Part 60) or NESHAP (40 CFR Parts 61 and 63) proposed after 11/15/1990.
- Stratospheric Ozone Protection Requirements.
- Acid Rain Program Requirements.
- Emission Limitations or Standards for which a WVDEP Division of Air Quality Title V permit specifies a continuous compliance determination method, as defined in 40 CFR §64.1.
- An emission cap that meets the requirements specified in 40 CFR §70.4(b)(12).

c. The PSEU uses an add-on control device (as defined in 40 CFR §64.1) to achieve compliance with an emission limitation or standard;

d. The PSEU has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than the Title V Major Source Threshold Levels; AND

e. The PSEU is NOT an exempt backup utility power emissions unit that is municipally-owned.

BASIS OF CAM SUBMITTAL

2) Mark the appropriate box below as to why this CAM plan is being submitted as part of an application for a Title V permit:

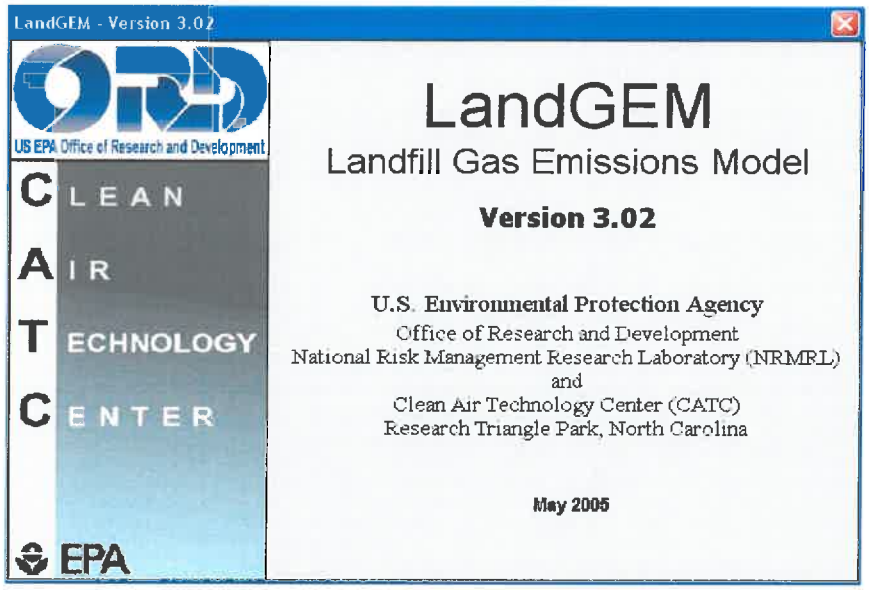
☐ RENEWAL APPLICATION. **ALL** PSEUs for which a CAM plan has NOT yet been approved need to be addressed in this CAM plan submittal.

☐ INITIAL APPLICATION (submitted after 4/20/98). **ONLY** large PSEUs (i. e., PSEUs with potential post-control device emissions of an applicable regulated air pollutant that are equal to or greater than Major Source Threshold Levels) need to be addressed in this CAM plan submittal.

☐ SIGNIFICANT MODIFICATION TO LARGE PSEUs. **ONLY** large PSEUs being modified after 4/20/98 need to be addressed in this cam plan submittal. For large PSEUs with an approved CAM plan, Only address the appropriate monitoring requirements affected by the significant modification.

SECTION 2.0

LANDGEM RESULTS



Summary Report

Landfill Name or Identifier: Wetzel County Landfill

Date: Monday, May 09, 2016

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_{CH4} = 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 ith year (Mg)
t_{ij} = age of the jth section of waste mass M_i accepted in the ith 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 convential 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	**1988**	
Landfill Closure Year (with 80-year limit)	**2060**	
Actual Closure Year (without limit)	***2060***	
Have Model Calculate Closure Year?	**No**	
Waste Design Capacity		*megagrams*

MODEL PARAMETERS

Methane Generation Rate, k	**0.050**	$year^{-1}$
Potential Methane Generation Capacity, L_o	**170**	m^3/Mg
NMOC Concentration	**595**	*ppmv as hexane*
Methane Content	**50**	*% by volume*

GASES / POLLUTANTS SELECTED

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

WASTE ACCEPTANCE RATES

Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	*(short tons/year)*	*(Mg)*	*(short tons)*
1988	108,900	119,790	0	0
1989	164,200	180,620	108,900	119,790
1990	244,100	268,510	273,100	300,410
1991	108,000	118,800	517,200	568,920
1992	111,600	122,760	625,200	687,720
1993	87,400	96,140	736,800	810,480
1994	53,300	58,630	824,200	906,620
1995	64,600	71,060	877,500	965,250
1996	75,000	82,500	942,100	1,036,310
1997	106,000	116,600	1,017,100	1,118,810
1998	47,000	51,700	1,123,100	1,235,410
1999	51,000	56,100	1,170,100	1,287,110
2000	54,000	59,400	1,221,100	1,343,210
2001	75,000	82,500	1,275,100	1,402,610
2002	68,150	74,965	1,350,100	1,485,110
2003	56,697	62,367	1,418,250	1,560,075
2004	52,072	57,279	1,474,947	1,622,442
2005	47,388	52,127	1,527,019	1,679,721
2006	37,204	40,924	1,574,407	1,731,848
2007	51,506	56,657	1,611,611	1,772,772
2008	97,250	106,975	1,663,117	1,829,429
2009	41,302	45,432	1,760,367	1,936,404
2010	49,922	54,914	1,801,669	1,981,836
2011	64,032	70,435	1,851,591	2,036,750
2012	81,664	89,830	1,915,623	2,107,185
2013	67,385	74,124	1,997,287	2,197,016
2014	66,818	73,500	2,064,672	2,271,139
2015	67,556	74,312	2,131,490	2,344,639
2016	67,556	74,312	2,199,046	2,418,951
2017	67,556	74,312	2,266,602	2,493,262
2018	67,556	74,312	2,334,158	2,567,574
2019	67,556	74,312	2,401,714	2,641,885
2020	67,556	74,312	2,469,270	2,716,197
2021	67,556	74,312	2,536,826	2,790,509
2022	67,556	74,312	2,604,382	2,864,820
2023	67,556	74,312	2,671,938	2,939,132
2024	67,556	74,312	2,739,494	3,013,443
2025	67,556	74,312	2,807,050	3,087,755
2026	67,556	74,312	2,874,606	3,162,067
2027	67,556	74,312	2,942,162	3,236,378

WASTE ACCEPTANCE RATES (Continued)

Year	Waste Accepted		Waste-In-Place	
	(Mg/year)	*(short tons/year)*	*(Mg)*	*(short tons)*
2028	67,556	74,312	3,009,718	3,310,690
2029	67,556	74,312	3,077,274	3,385,001
2030	67,556	74,312	3,144,830	3,459,313
2031	67,556	74,312	3,212,386	3,533,625
2032	67,556	74,312	3,279,942	3,607,936
2033	67,556	74,312	3,347,498	3,682,248
2034	67,556	74,312	3,415,054	3,756,559
2035	67,556	74,312	3,482,610	3,830,871
2036	67,556	74,312	3,550,166	3,905,183
2037	67,556	74,312	3,617,722	3,979,494
2038	67,556	74,312	3,685,278	4,053,806
2039	67,556	74,312	3,752,834	4,128,117
2040	67,556	74,312	3,820,390	4,202,429
2041	67,556	74,312	3,887,946	4,276,741
2042	67,556	74,312	3,955,502	4,351,052
2043	67,556	74,312	4,023,058	4,425,364
2044	67,556	74,312	4,090,614	4,499,675
2045	67,556	74,312	4,158,170	4,573,987
2046	67,556	74,312	4,225,726	4,648,299
2047	67,556	74,312	4,293,282	4,722,610
2048	67,556	74,312	4,360,838	4,796,922
2049	67,556	74,312	4,428,394	4,871,233
2050	67,556	74,312	4,495,950	4,945,545
2051	67,556	74,312	4,563,506	5,019,857
2052	67,556	74,312	4,631,062	5,094,168
2053	67,556	74,312	4,698,618	5,168,480
2054	67,556	74,312	4,766,174	5,242,791
2055	67,556	74,312	4,833,730	5,317,103
2056	67,556	74,312	4,901,286	5,391,415
2057	67,556	74,312	4,968,842	5,465,726
2058	67,556	74,312	5,036,398	5,540,038
2059	67,556	74,312	5,103,954	5,614,349
2060	0	0	5,171,510	5,688,661
2061	0	0	5,171,510	5,688,661
2062	0	0	5,171,510	5,688,661
2063	0	0	5,171,510	5,688,661
2064	0	0	5,171,510	5,688,661
2065	0	0	5,171,510	5,688,661
2066	0	0	5,171,510	5,688,661
2067	0	0	5,171,510	5,688,661

Pollutant Parameters

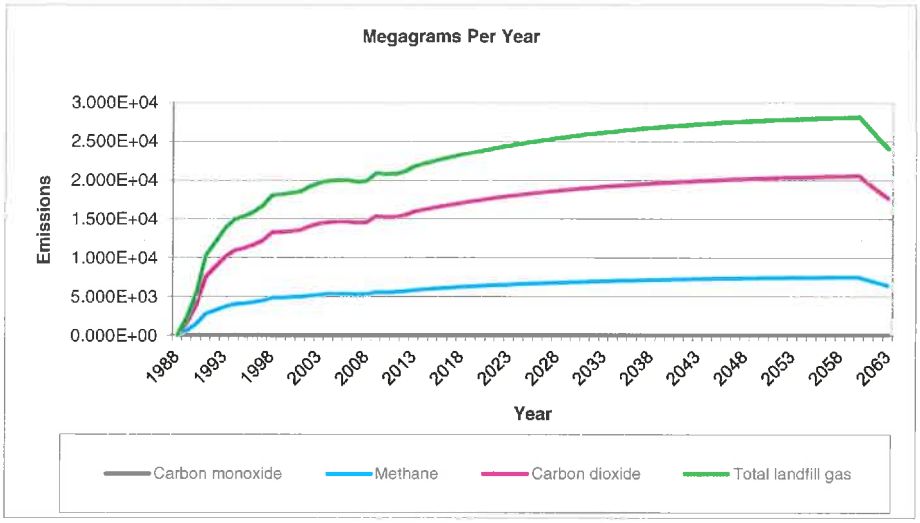
		Gas / Pollutant Default Parameters:		*User-specified Pollutant Parameters:*	
	Compound	Concentration (*ppmv*)	Molecular Weight	Concentration (*ppmv*)	Molecular Weight
Gases	Total landfill gas		0.00		
	Methane		16.04		
	Carbon dioxide		44.01		
	NMOC	4,000	86.18		
Pollutants	1,1,1-Trichloroethane (methyl chloroform) - HAP	0.48	133.41		
	1,1,2,2-Tetrachloroethane - HAP/VOC	1.1	167.85		
	1,1-Dichloroethane (ethylidene dichloride) - HAP/VOC	2.4	98.97		
	1,1-Dichloroethene (vinylidene chloride) - HAP/VOC	0.20	96.94		
	1,2-Dichloroethane (ethylene dichloride) - HAP/VOC	0.41	98.96		
	1,2-Dichloropropane (propylene dichloride) - HAP/VOC	0.18	112.99		
	2-Propanol (isopropyl alcohol) - VOC	50	60.11		
	Acetone	7.0	58.08		
	Acrylonitrile - HAP/VOC	6.3	53.06		
	Benzene - No or Unknown Co-disposal - HAP/VOC	1.9	78.11		
	Benzene - Co-disposal - HAP/VOC	11	78.11		
	Bromodichloromethane - VOC	3.1	163.83		
	Butane - VOC	5.0	58.12		
	Carbon disulfide - HAP/VOC	0.58	76.13		
	Carbon monoxide	140	28.01		
	Carbon tetrachloride - HAP/VOC	4.0E-03	153.84		
	Carbonyl sulfide - HAP/VOC	0.49	60.07		
	Chlorobenzene - HAP/VOC	0.25	112.56		
	Chlorodifluoromethane	1.3	86.47		
	Chloroethane (ethyl chloride) - HAP/VOC	1.3	64.52		
	Chloroform - HAP/VOC	0.03	119.39		
	Chloromethane - VOC	1.2	50.49		
	Dichlorobenzene - (HAP for para isomer/VOC)	0.21	147		
	Dichlorodifluoromethane	16	120.91		
	Dichlorofluoromethane - VOC	2.6	102.92		
	Dichloromethane (methylene chloride) - HAP	14	84.94		
	Dimethyl sulfide (methyl sulfide) - VOC	7.8	62.13		
	Ethane	890	30.07		
	Ethanol - VOC	27	46.08		

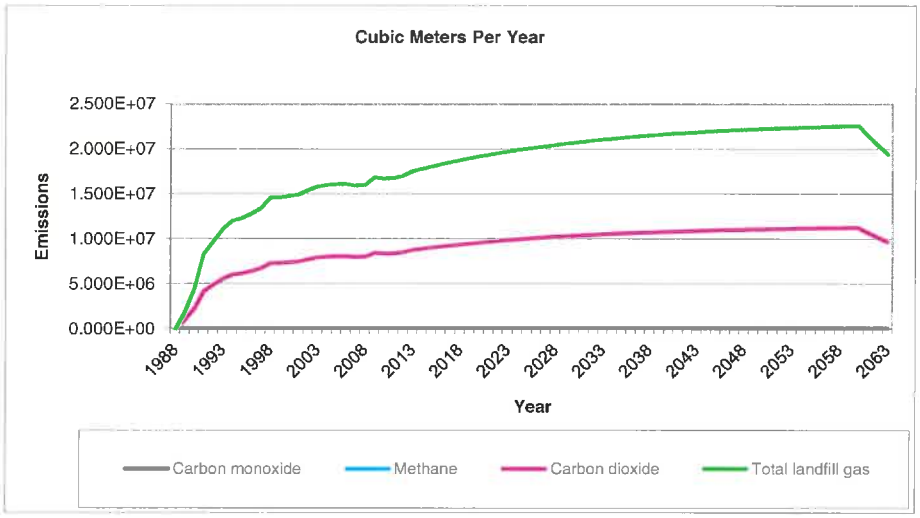
Pollutant Parameters (Continued)

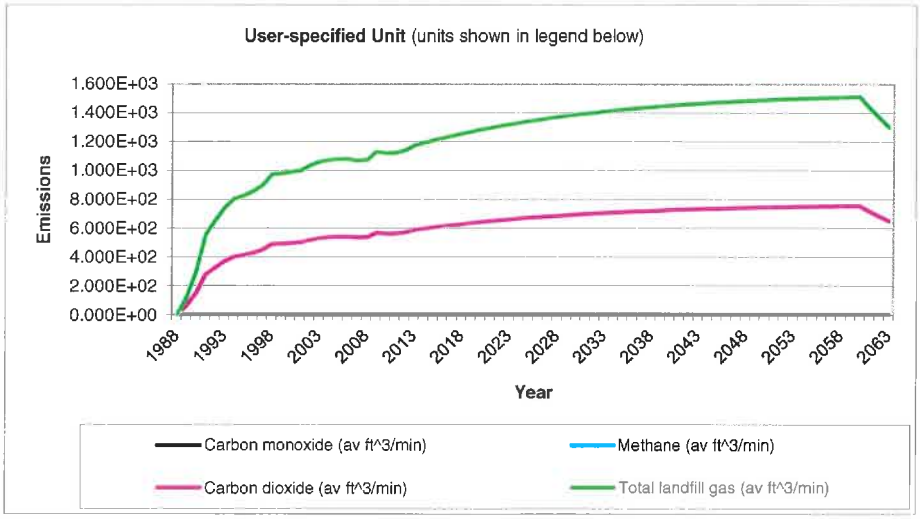
Pollutants

Compound	Gas / Pollutant Default Parameters: Concentration (*ppmv*)	Molecular Weight	User-specified Pollutant Parameters: Concentration (*ppmv*)	Molecular Weight
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


Megagrams Per Year
Emissions
3.000E+04
2.500E+04
2.000E+04
1.500E+04
1.000E+04
5.000E+03
0.000E+00
1988
1993
1998
2003
2008
2013
2018
2023
2028
2033
2038
2043
2048
2053
2058
2063
Year
Carbon monoxide
Methane
Carbon dioxide
Total landfill gas


Cubic Meters Per Year
Emissions
2.500E+07
2.000E+07
1.500E+07
1.000E+07
5.000E+06
0.000E+00
1988
1993
1998
2003
2008
2013
2018
2023
2028
2033
2038
2043
2048
2053
2058
2063
Year
Carbon monoxide
Methane
Carbon dioxide
Total landfill gas


User-specified Unit (units shown in legend below)
Emissions
1.600E+03
1.400E+03
1.200E+03
1.000E+03
8.000E+02
6.000E+02
4.000E+02
2.000E+02
0.000E+00
1988
1993
1998
2003
2008
2013
2018
2023
2028
2033
2038
2043
2048
2053
2058
2063
Year
Carbon monoxide (av ft^3/min)
Methane (av ft^3/min)
Carbon dioxide (av ft^3/min)
Total landfill gas (av ft^3/min)

Results

Year	Carbon monoxide			Methane		
	(Mg/year)	*(m^3/year)*	*(av ft^3/min)*	*(Mg/year)*	*(m^3/year)*	*(av ft^3/min)*
1988	0	0	0	0	0	0
1989	2.953E-01	2.534E+02	1.703E-02	6.039E+02	9.051E+05	6.082E+01
1990	7.261E-01	6.232E+02	4.187E-02	1.485E+03	2.226E+06	1.496E+02
1991	1.352E+00	1.161E+03	7.800E-02	2.766E+03	4.146E+06	2.786E+02
1992	1.579E+00	1.356E+03	9.109E-02	3.230E+03	4.842E+06	3.253E+02
1993	1.805E+00	1.549E+03	1.041E-01	3.691E+03	5.533E+06	3.718E+02
1994	1.954E+00	1.677E+03	1.127E-01	3.996E+03	5.990E+06	4.024E+02
1995	2.003E+00	1.719E+03	1.155E-01	4.097E+03	6.141E+06	4.126E+02
1996	2.081E+00	1.786E+03	1.200E-01	4.255E+03	6.378E+06	4.285E+02
1997	2.182E+00	1.873E+03	1.259E-01	4.463E+03	6.690E+06	4.495E+02
1998	2.363E+00	2.029E+03	1.363E-01	4.834E+03	7.245E+06	4.868E+02
1999	2.376E+00	2.039E+03	1.370E-01	4.858E+03	7.282E+06	4.893E+02
2000	2.398E+00	2.058E+03	1.383E-01	4.904E+03	7.351E+06	4.939E+02
2001	2.427E+00	2.084E+03	1.400E-01	4.965E+03	7.441E+06	5.000E+02
2002	2.512E+00	2.157E+03	1.449E-01	5.138E+03	7.702E+06	5.175E+02
2003	2.575E+00	2.210E+03	1.485E-01	5.266E+03	7.893E+06	5.303E+02
2004	2.603E+00	2.234E+03	1.501E-01	5.323E+03	7.979E+06	5.361E+02
2005	2.617E+00	2.246E+03	1.509E-01	5.352E+03	8.023E+06	5.390E+02
2006	2.618E+00	2.247E+03	1.510E-01	5.354E+03	8.025E+06	5.392E+02
2007	2.591E+00	2.224E+03	1.494E-01	5.299E+03	7.943E+06	5.337E+02
2008	2.604E+00	2.235E+03	1.502E-01	5.326E+03	7.984E+06	5.364E+02
2009	2.741E+00	2.353E+03	1.581E-01	5.606E+03	8.403E+06	5.646E+02
2010	2.719E+00	2.334E+03	1.568E-01	5.562E+03	8.336E+06	5.601E+02
2011	2.722E+00	2.337E+03	1.570E-01	5.567E+03	8.345E+06	5.607E+02
2012	2.763E+00	2.372E+03	1.593E-01	5.651E+03	8.470E+06	5.691E+02
2013	2.850E+00	2.446E+03	1.643E-01	5.828E+03	8.736E+06	5.869E+02
2014	2.893E+00	2.483E+03	1.669E-01	5.917E+03	8.870E+06	5.959E+02
2015	2.933E+00	2.518E+03	1.692E-01	5.999E+03	8.992E+06	6.042E+02
2016	2.973E+00	2.552E+03	1.715E-01	6.081E+03	9.115E+06	6.125E+02
2017	3.012E+00	2.585E+03	1.737E-01	6.159E+03	9.232E+06	6.203E+02
2018	3.048E+00	2.616E+03	1.758E-01	6.234E+03	9.344E+06	6.278E+02
2019	3.082E+00	2.646E+03	1.778E-01	6.304E+03	9.449E+06	6.349E+02
2020	3.115E+00	2.674E+03	1.797E-01	6.371E+03	9.550E+06	6.417E+02
2021	3.146E+00	2.701E+03	1.815E-01	6.435E+03	9.646E+06	6.481E+02
2022	3.176E+00	2.726E+03	1.832E-01	6.496E+03	9.737E+06	6.542E+02
2023	3.204E+00	2.751E+03	1.848E-01	6.554E+03	9.823E+06	6.600E+02
2024	3.231E+00	2.774E+03	1.864E-01	6.609E+03	9.906E+06	6.656E+02
2025	3.257E+00	2.796E+03	1.878E-01	6.661E+03	9.984E+06	6.708E+02
2026	3.281E+00	2.816E+03	1.892E-01	6.711E+03	1.006E+07	6.759E+02
2027	3.304E+00	2.836E+03	1.906E-01	6.758E+03	1.013E+07	6.806E+02
2028	3.326E+00	2.855E+03	1.918E-01	6.803E+03	1.020E+07	6.852E+02
2029	3.347E+00	2.873E+03	1.931E-01	6.846E+03	1.026E+07	6.895E+02
2030	3.367E+00	2.890E+03	1.942E-01	6.887E+03	1.032E+07	6.936E+02
2031	3.386E+00	2.907E+03	1.953E-01	6.925E+03	1.038E+07	6.975E+02
2032	3.404E+00	2.922E+03	1.963E-01	6.962E+03	1.044E+07	7.012E+02
2033	3.421E+00	2.937E+03	1.973E-01	6.997E+03	1.049E+07	7.047E+02
2034	3.438E+00	2.951E+03	1.983E-01	7.031E+03	1.054E+07	7.081E+02
2035	3.453E+00	2.964E+03	1.992E-01	7.062E+03	1.059E+07	7.113E+02
2036	3.468E+00	2.977E+03	2.000E-01	7.093E+03	1.063E+07	7.143E+02
2037	3.482E+00	2.989E+03	2.008E-01	7.121E+03	1.067E+07	7.172E+02

Results (Continued)

Year	Carbon monoxide			Methane		
	(Mg/year)	(m^3/year)	(av ft^3/min)	(Mg/year)	(m^3/year)	(av ft^3/min)
2038	3.495E+00	3.000E+03	2.016E-01	7.149E+03	1.072E+07	7.199E+02
2039	3.508E+00	3.011E+03	2.023E-01	7.175E+03	1.075E+07	7.226E+02
2040	3.520E+00	3.021E+03	2.030E-01	7.199E+03	1.079E+07	7.250E+02
2041	3.532E+00	3.031E+03	2.037E-01	7.223E+03	1.083E+07	7.274E+02
2042	3.542E+00	3.041E+03	2.043E-01	7.245E+03	1.086E+07	7.297E+02
2043	3.553E+00	3.050E+03	2.049E-01	7.266E+03	1.089E+07	7.318E+02
2044	3.563E+00	3.058E+03	2.055E-01	7.287E+03	1.092E+07	7.338E+02
2045	3.572E+00	3.066E+03	2.060E-01	7.306E+03	1.095E+07	7.358E+02
2046	3.581E+00	3.074E+03	2.065E-01	7.324E+03	1.098E+07	7.376E+02
2047	3.590E+00	3.081E+03	2.070E-01	7.342E+03	1.100E+07	7.394E+02
2048	3.598E+00	3.088E+03	2.075E-01	7.358E+03	1.103E+07	7.410E+02
2049	3.605E+00	3.095E+03	2.079E-01	7.374E+03	1.105E+07	7.426E+02
2050	3.613E+00	3.101E+03	2.084E-01	7.389E+03	1.108E+07	7.441E+02
2051	3.620E+00	3.107E+03	2.088E-01	7.403E+03	1.110E+07	7.456E+02
2052	3.626E+00	3.113E+03	2.091E-01	7.417E+03	1.112E+07	7.469E+02
2053	3.633E+00	3.118E+03	2.095E-01	7.430E+03	1.114E+07	7.482E+02
2054	3.639E+00	3.123E+03	2.099E-01	7.442E+03	1.115E+07	7.495E+02
2055	3.644E+00	3.128E+03	2.102E-01	7.453E+03	1.117E+07	7.507E+02
2056	3.650E+00	3.133E+03	2.105E-01	7.465E+03	1.119E+07	7.518E+02
2057	3.655E+00	3.137E+03	2.108E-01	7.475E+03	1.120E+07	7.528E+02
2058	3.660E+00	3.141E+03	2.111E-01	7.485E+03	1.122E+07	7.538E+02
2059	3.665E+00	3.146E+03	2.113E-01	7.495E+03	1.123E+07	7.548E+02
2060	3.669E+00	3.149E+03	2.116E-01	7.504E+03	1.125E+07	7.557E+02
2061	3.490E+00	2.996E+03	2.013E-01	7.138E+03	1.070E+07	7.189E+02
2062	3.320E+00	2.850E+03	1.915E-01	6.790E+03	1.018E+07	6.838E+02
2063	3.158E+00	2.711E+03	1.821E-01	6.459E+03	9.681E+06	6.505E+02
2064	3.004E+00	2.578E+03	1.732E-01	6.144E+03	9.209E+06	6.187E+02
2065	2.857E+00	2.453E+03	1.648E-01	5.844E+03	8.760E+06	5.886E+02
2066	2.718E+00	2.333E+03	1.568E-01	5.559E+03	8.332E+06	5.599E+02
2067	2.585E+00	2.219E+03	1.491E-01	5.288E+03	7.926E+06	5.325E+02
2068	2.459E+00	2.111E+03	1.418E-01	5.030E+03	7.539E+06	5.066E+02
2069	2.339E+00	2.008E+03	1.349E-01	4.785E+03	7.172E+06	4.819E+02
2070	2.225E+00	1.910E+03	1.283E-01	4.551E+03	6.822E+06	4.584E+02
2071	2.117E+00	1.817E+03	1.221E-01	4.329E+03	6.489E+06	4.360E+02
2072	2.014E+00	1.728E+03	1.161E-01	4.118E+03	6.173E+06	4.147E+02
2073	1.915E+00	1.644E+03	1.105E-01	3.917E+03	5.872E+06	3.945E+02
2074	1.822E+00	1.564E+03	1.051E-01	3.726E+03	5.585E+06	3.753E+02
2075	1.733E+00	1.488E+03	9.995E-02	3.545E+03	5.313E+06	3.570E+02
2076	1.649E+00	1.415E+03	9.508E-02	3.372E+03	5.054E+06	3.396E+02
2077	1.568E+00	1.346E+03	9.044E-02	3.207E+03	4.807E+06	3.230E+02
2078	1.492E+00	1.280E+03	8.603E-02	3.051E+03	4.573E+06	3.073E+02
2079	1.419E+00	1.218E+03	8.184E-02	2.902E+03	4.350E+06	2.923E+02
2080	1.350E+00	1.159E+03	7.784E-02	2.760E+03	4.138E+06	2.780E+02
2081	1.284E+00	1.102E+03	7.405E-02	2.626E+03	3.936E+06	2.645E+02
2082	1.221E+00	1.048E+03	7.044E-02	2.498E+03	3.744E+06	2.516E+02
2083	1.162E+00	9.972E+02	6.700E-02	2.376E+03	3.561E+06	2.393E+02
2084	1.105E+00	9.486E+02	6.373E-02	2.260E+03	3.388E+06	2.276E+02
2085	1.051E+00	9.023E+02	6.063E-02	2.150E+03	3.222E+06	2.165E+02
2086	9.999E-01	8.583E+02	5.767E-02	2.045E+03	3.065E+06	2.060E+02
2087	9.512E-01	8.164E+02	5.486E-02	1.945E+03	2.916E+06	1.959E+02
2088	9.048E-01	7.766E+02	5.218E-02	1.850E+03	2.774E+06	1.864E+02

Results (Continued)

Year	Carbon monoxide			Methane		
	(Mg/year)	*(m^3/year)*	*(av ft^3/min)*	*(Mg/year)*	*(m^3/year)*	*(av ft^3/min)*
2089	8.606E-01	7.387E+02	4.964E-02	1.760E+03	2.638E+06	1.773E+02
2090	8.187E-01	7.027E+02	4.721E-02	1.674E+03	2.510E+06	1.686E+02
2091	7.787E-01	6.684E+02	4.491E-02	1.593E+03	2.387E+06	1.604E+02
2092	7.408E-01	6.358E+02	4.272E-02	1.515E+03	2.271E+06	1.526E+02
2093	7.046E-01	6.048E+02	4.064E-02	1.441E+03	2.160E+06	1.451E+02
2094	6.703E-01	5.753E+02	3.866E-02	1.371E+03	2.055E+06	1.381E+02
2095	6.376E-01	5.473E+02	3.677E-02	1.304E+03	1.955E+06	1.313E+02
2096	6.065E-01	5.206E+02	3.498E-02	1.240E+03	1.859E+06	1.249E+02
2097	5.769E-01	4.952E+02	3.327E-02	1.180E+03	1.769E+06	1.188E+02
2098	5.488E-01	4.710E+02	3.165E-02	1.122E+03	1.682E+06	1.130E+02
2099	5.220E-01	4.481E+02	3.011E-02	1.068E+03	1.600E+06	1.075E+02
2100	4.965E-01	4.262E+02	2.864E-02	1.016E+03	1.522E+06	1.023E+02
2101	4.723E-01	4.054E+02	2.724E-02	9.660E+02	1.448E+06	9.729E+01
2102	4.493E-01	3.857E+02	2.591E-02	9.189E+02	1.377E+06	9.254E+01
2103	4.274E-01	3.668E+02	2.465E-02	8.741E+02	1.310E+06	8.803E+01
2104	4.065E-01	3.490E+02	2.345E-02	8.314E+02	1.246E+06	8.374E+01
2105	3.867E-01	3.319E+02	2.230E-02	7.909E+02	1.185E+06	7.965E+01
2106	3.678E-01	3.157E+02	2.121E-02	7.523E+02	1.128E+06	7.577E+01
2107	3.499E-01	3.003E+02	2.018E-02	7.156E+02	1.073E+06	7.207E+01
2108	3.328E-01	2.857E+02	1.920E-02	6.807E+02	1.020E+06	6.856E+01
2109	3.166E-01	2.718E+02	1.826E-02	6.475E+02	9.706E+05	6.521E+01
2110	3.012E-01	2.585E+02	1.737E-02	6.159E+02	9.233E+05	6.203E+01
2111	2.865E-01	2.459E+02	1.652E-02	5.859E+02	8.782E+05	5.901E+01
2112	2.725E-01	2.339E+02	1.572E-02	5.573E+02	8.354E+05	5.613E+01
2113	2.592E-01	2.225E+02	1.495E-02	5.302E+02	7.947E+05	5.339E+01
2114	2.466E-01	2.117E+02	1.422E-02	5.043E+02	7.559E+05	5.079E+01
2115	2.346E-01	2.013E+02	1.353E-02	4.797E+02	7.190E+05	4.831E+01
2116	2.231E-01	1.915E+02	1.287E-02	4.563E+02	6.840E+05	4.596E+01
2117	2.122E-01	1.822E+02	1.224E-02	4.341E+02	6.506E+05	4.371E+01
2118	2.019E-01	1.733E+02	1.164E-02	4.129E+02	6.189E+05	4.158E+01
2119	1.920E-01	1.648E+02	1.108E-02	3.927E+02	5.887E+05	3.955E+01
2120	1.827E-01	1.568E+02	1.054E-02	3.736E+02	5.600E+05	3.763E+01
2121	1.738E-01	1.491E+02	1.002E-02	3.554E+02	5.327E+05	3.579E+01
2122	1.653E-01	1.419E+02	9.533E-03	3.380E+02	5.067E+05	3.404E+01
2123	1.572E-01	1.350E+02	9.068E-03	3.216E+02	4.820E+05	3.238E+01
2124	1.496E-01	1.284E+02	8.625E-03	3.059E+02	4.585E+05	3.080E+01
2125	1.423E-01	1.221E+02	8.205E-03	2.910E+02	4.361E+05	2.930E+01
2126	1.353E-01	1.162E+02	7.805E-03	2.768E+02	4.148E+05	2.787E+01
2127	1.287E-01	1.105E+02	7.424E-03	2.633E+02	3.946E+05	2.651E+01
2128	1.224E-01	1.051E+02	7.062E-03	2.504E+02	3.754E+05	2.522E+01

Results (Continued)

Year	Carbon dioxide			Total landfill gas		
	(Mg/year)	*(m^3/year)*	*(av ft^3/min)*	*(Mg/year)*	*(m^3/year)*	*(av ft^3/min)*
1988	0	0	0	0	0	0
1989	1.657E+03	9.051E+05	6.082E+01	2.261E+03	1.810E+06	1.216E+02
1990	4.074E+03	2.226E+06	1.496E+02	5.559E+03	4.452E+06	2.991E+02
1991	7.589E+03	4.146E+06	2.786E+02	1.036E+04	8.292E+06	5.572E+02
1992	8.863E+03	4.842E+06	3.253E+02	1.209E+04	9.683E+06	6.506E+02
1993	1.013E+04	5.533E+06	3.718E+02	1.382E+04	1.107E+07	7.435E+02
1994	1.096E+04	5.990E+06	4.024E+02	1.496E+04	1.198E+07	8.049E+02
1995	1.124E+04	6.141E+06	4.126E+02	1.534E+04	1.228E+07	8.252E+02
1996	1.167E+04	6.378E+06	4.285E+02	1.593E+04	1.276E+07	8.571E+02
1997	1.225E+04	6.690E+06	4.495E+02	1.671E+04	1.338E+07	8.990E+02
1998	1.326E+04	7.245E+06	4.868E+02	1.810E+04	1.449E+07	9.736E+02
1999	1.333E+04	7.282E+06	4.893E+02	1.819E+04	1.456E+07	9.786E+02
2000	1.346E+04	7.351E+06	4.939E+02	1.836E+04	1.470E+07	9.878E+02
2001	1.362E+04	7.441E+06	5.000E+02	1.859E+04	1.488E+07	1.000E+03
2002	1.410E+04	7.702E+06	5.175E+02	1.924E+04	1.540E+07	1.035E+03
2003	1.445E+04	7.893E+06	5.303E+02	1.971E+04	1.579E+07	1.061E+03
2004	1.461E+04	7.979E+06	5.361E+02	1.993E+04	1.596E+07	1.072E+03
2005	1.469E+04	8.023E+06	5.390E+02	2.004E+04	1.605E+07	1.078E+03
2006	1.469E+04	8.025E+06	5.392E+02	2.004E+04	1.605E+07	1.078E+03
2007	1.454E+04	7.943E+06	5.337E+02	1.984E+04	1.589E+07	1.067E+03
2008	1.461E+04	7.984E+06	5.364E+02	1.994E+04	1.597E+07	1.073E+03
2009	1.538E+04	8.403E+06	5.646E+02	2.099E+04	1.681E+07	1.129E+03
2010	1.526E+04	8.336E+06	5.601E+02	2.082E+04	1.667E+07	1.120E+03
2011	1.527E+04	8.345E+06	5.607E+02	2.084E+04	1.669E+07	1.121E+03
2012	1.550E+04	8.470E+06	5.691E+02	2.115E+04	1.694E+07	1.138E+03
2013	1.599E+04	8.736E+06	5.869E+02	2.182E+04	1.747E+07	1.174E+03
2014	1.624E+04	8.870E+06	5.959E+02	2.215E+04	1.774E+07	1.192E+03
2015	1.646E+04	8.992E+06	6.042E+02	2.246E+04	1.798E+07	1.208E+03
2016	1.669E+04	9.115E+06	6.125E+02	2.277E+04	1.823E+07	1.225E+03
2017	1.690E+04	9.232E+06	6.203E+02	2.306E+04	1.846E+07	1.241E+03
2018	1.710E+04	9.344E+06	6.278E+02	2.334E+04	1.869E+07	1.256E+03
2019	1.730E+04	9.449E+06	6.349E+02	2.360E+04	1.890E+07	1.270E+03
2020	1.748E+04	9.550E+06	6.417E+02	2.385E+04	1.910E+07	1.283E+03
2021	1.766E+04	9.646E+06	6.481E+02	2.409E+04	1.929E+07	1.296E+03
2022	1.782E+04	9.737E+06	6.542E+02	2.432E+04	1.947E+07	1.308E+03
2023	1.798E+04	9.823E+06	6.600E+02	2.454E+04	1.965E+07	1.320E+03
2024	1.813E+04	9.906E+06	6.656E+02	2.474E+04	1.981E+07	1.331E+03
2025	1.828E+04	9.984E+06	6.708E+02	2.494E+04	1.997E+07	1.342E+03
2026	1.841E+04	1.006E+07	6.759E+02	2.512E+04	2.012E+07	1.352E+03
2027	1.854E+04	1.013E+07	6.806E+02	2.530E+04	2.026E+07	1.361E+03
2028	1.867E+04	1.020E+07	6.852E+02	2.547E+04	2.039E+07	1.370E+03
2029	1.878E+04	1.026E+07	6.895E+02	2.563E+04	2.052E+07	1.379E+03
2030	1.890E+04	1.032E+07	6.936E+02	2.578E+04	2.064E+07	1.387E+03
2031	1.900E+04	1.038E+07	6.975E+02	2.593E+04	2.076E+07	1.395E+03
2032	1.910E+04	1.044E+07	7.012E+02	2.606E+04	2.087E+07	1.402E+03
2033	1.920E+04	1.049E+07	7.047E+02	2.620E+04	2.098E+07	1.409E+03
2034	1.929E+04	1.054E+07	7.081E+02	2.632E+04	2.108E+07	1.416E+03
2035	1.938E+04	1.059E+07	7.113E+02	2.644E+04	2.117E+07	1.423E+03
2036	1.946E+04	1.063E+07	7.143E+02	2.655E+04	2.126E+07	1.429E+03
2037	1.954E+04	1.067E+07	7.172E+02	2.666E+04	2.135E+07	1.434E+03

Results (Continued)

Year	Carbon dioxide			Total landfill gas		
	(Mg/year)	(m^3/year)	(av ft^3/min)	(Mg/year)	(m^3/year)	(av ft^3/min)
2038	1.961E+04	1.072E+07	7.199E+02	2.676E+04	2.143E+07	1.440E+03
2039	1.969E+04	1.075E+07	7.226E+02	2.686E+04	2.151E+07	1.445E+03
2040	1.975E+04	1.079E+07	7.250E+02	2.695E+04	2.158E+07	1.450E+03
2041	1.982E+04	1.083E+07	7.274E+02	2.704E+04	2.165E+07	1.455E+03
2042	1.988E+04	1.086E+07	7.297E+02	2.712E+04	2.172E+07	1.459E+03
2043	1.994E+04	1.089E+07	7.318E+02	2.720E+04	2.178E+07	1.464E+03
2044	1.999E+04	1.092E+07	7.338E+02	2.728E+04	2.184E+07	1.468E+03
2045	2.005E+04	1.095E+07	7.358E+02	2.735E+04	2.190E+07	1.472E+03
2046	2.010E+04	1.098E+07	7.376E+02	2.742E+04	2.196E+07	1.475E+03
2047	2.014E+04	1.100E+07	7.394E+02	2.748E+04	2.201E+07	1.479E+03
2048	2.019E+04	1.103E+07	7.410E+02	2.755E+04	2.206E+07	1.482E+03
2049	2.023E+04	1.105E+07	7.426E+02	2.761E+04	2.211E+07	1.485E+03
2050	2.027E+04	1.108E+07	7.441E+02	2.766E+04	2.215E+07	1.488E+03
2051	2.031E+04	1.110E+07	7.456E+02	2.772E+04	2.219E+07	1.491E+03
2052	2.035E+04	1.112E+07	7.469E+02	2.777E+04	2.223E+07	1.494E+03
2053	2.038E+04	1.114E+07	7.482E+02	2.781E+04	2.227E+07	1.496E+03
2054	2.042E+04	1.115E+07	7.495E+02	2.786E+04	2.231E+07	1.499E+03
2055	2.045E+04	1.117E+07	7.507E+02	2.790E+04	2.234E+07	1.501E+03
2056	2.048E+04	1.119E+07	7.518E+02	2.795E+04	2.238E+07	1.504E+03
2057	2.051E+04	1.120E+07	7.528E+02	2.799E+04	2.241E+07	1.506E+03
2058	2.054E+04	1.122E+07	7.538E+02	2.802E+04	2.244E+07	1.508E+03
2059	2.056E+04	1.123E+07	7.548E+02	2.806E+04	2.247E+07	1.510E+03
2060	2.059E+04	1.125E+07	7.557E+02	2.809E+04	2.250E+07	1.511E+03
2061	1.958E+04	1.070E+07	7.189E+02	2.672E+04	2.140E+07	1.438E+03
2062	1.863E+04	1.018E+07	6.838E+02	2.542E+04	2.035E+07	1.368E+03
2063	1.772E+04	9.681E+06	6.505E+02	2.418E+04	1.936E+07	1.301E+03
2064	1.686E+04	9.209E+06	6.187E+02	2.300E+04	1.842E+07	1.237E+03
2065	1.603E+04	8.760E+06	5.886E+02	2.188E+04	1.752E+07	1.177E+03
2066	1.525E+04	8.332E+06	5.599E+02	2.081E+04	1.666E+07	1.120E+03
2067	1.451E+04	7.926E+06	5.325E+02	1.980E+04	1.585E+07	1.065E+03
2068	1.380E+04	7.539E+06	5.066E+02	1.883E+04	1.508E+07	1.013E+03
2069	1.313E+04	7.172E+06	4.819E+02	1.791E+04	1.434E+07	9.637E+02
2070	1.249E+04	6.822E+06	4.584E+02	1.704E+04	1.364E+07	9.167E+02
2071	1.188E+04	6.489E+06	4.360E+02	1.621E+04	1.298E+07	8.720E+02
2072	1.130E+04	6.173E+06	4.147E+02	1.542E+04	1.235E+07	8.295E+02
2073	1.075E+04	5.872E+06	3.945E+02	1.467E+04	1.174E+07	7.890E+02
2074	1.022E+04	5.585E+06	3.753E+02	1.395E+04	1.117E+07	7.506E+02
2075	9.725E+03	5.313E+06	3.570E+02	1.327E+04	1.063E+07	7.140E+02
2076	9.251E+03	5.054E+06	3.396E+02	1.262E+04	1.011E+07	6.791E+02
2077	8.800E+03	4.807E+06	3.230E+02	1.201E+04	9.615E+06	6.460E+02
2078	8.371E+03	4.573E+06	3.073E+02	1.142E+04	9.146E+06	6.145E+02
2079	7.962E+03	4.350E+06	2.923E+02	1.086E+04	8.700E+06	5.845E+02
2080	7.574E+03	4.138E+06	2.780E+02	1.033E+04	8.275E+06	5.560E+02
2081	7.205E+03	3.936E+06	2.645E+02	9.831E+03	7.872E+06	5.289E+02
2082	6.853E+03	3.744E+06	2.516E+02	9.351E+03	7.488E+06	5.031E+02
2083	6.519E+03	3.561E+06	2.393E+02	8.895E+03	7.123E+06	4.786E+02
2084	6.201E+03	3.388E+06	2.276E+02	8.461E+03	6.775E+06	4.552E+02
2085	5.899E+03	3.222E+06	2.165E+02	8.049E+03	6.445E+06	4.330E+02
2086	5.611E+03	3.065E+06	2.060E+02	7.656E+03	6.131E+06	4.119E+02
2087	5.337E+03	2.916E+06	1.959E+02	7.283E+03	5.832E+06	3.918E+02
2088	5.077E+03	2.774E+06	1.864E+02	6.928E+03	5.547E+06	3.727E+02

Results (Continued)

Year	Carbon dioxide			Total landfill gas		
	(Mg/year)	*(m^3/year)*	*(av ft^3/min)*	*(Mg/year)*	*(m^3/year)*	*(av ft^3/min)*
2089	4.829E+03	2.638E+06	1.773E+02	6.590E+03	5.277E+06	3.545E+02
2090	4.594E+03	2.510E+06	1.686E+02	6.268E+03	5.019E+06	3.372E+02
2091	4.370E+03	2.387E+06	1.604E+02	5.963E+03	4.775E+06	3.208E+02
2092	4.157E+03	2.271E+06	1.526E+02	5.672E+03	4.542E+06	3.052E+02
2093	3.954E+03	2.160E+06	1.451E+02	5.395E+03	4.320E+06	2.903E+02
2094	3.761E+03	2.055E+06	1.381E+02	5.132E+03	4.109E+06	2.761E+02
2095	3.578E+03	1.955E+06	1.313E+02	4.882E+03	3.909E+06	2.626E+02
2096	3.403E+03	1.859E+06	1.249E+02	4.644E+03	3.718E+06	2.498E+02
2097	3.237E+03	1.769E+06	1.188E+02	4.417E+03	3.537E+06	2.377E+02
2098	3.079E+03	1.682E+06	1.130E+02	4.202E+03	3.365E+06	2.261E+02
2099	2.929E+03	1.600E+06	1.075E+02	3.997E+03	3.200E+06	2.150E+02
2100	2.786E+03	1.522E+06	1.023E+02	3.802E+03	3.044E+06	2.046E+02
2101	2.650E+03	1.448E+06	9.729E+01	3.616E+03	2.896E+06	1.946E+02
2102	2.521E+03	1.377E+06	9.254E+01	3.440E+03	2.755E+06	1.851E+02
2103	2.398E+03	1.310E+06	8.803E+01	3.272E+03	2.620E+06	1.761E+02
2104	2.281E+03	1.246E+06	8.374E+01	3.113E+03	2.493E+06	1.675E+02
2105	2.170E+03	1.185E+06	7.965E+01	2.961E+03	2.371E+06	1.593E+02
2106	2.064E+03	1.128E+06	7.577E+01	2.817E+03	2.255E+06	1.515E+02
2107	1.964E+03	1.073E+06	7.207E+01	2.679E+03	2.145E+06	1.441E+02
2108	1.868E+03	1.020E+06	6.856E+01	2.548E+03	2.041E+06	1.371E+02
2109	1.777E+03	9.706E+05	6.521E+01	2.424E+03	1.941E+06	1.304E+02
2110	1.690E+03	9.233E+05	6.203E+01	2.306E+03	1.847E+06	1.241E+02
2111	1.608E+03	8.782E+05	5.901E+01	2.194E+03	1.756E+06	1.180E+02
2112	1.529E+03	8.354E+05	5.613E+01	2.087E+03	1.671E+06	1.123E+02
2113	1.455E+03	7.947E+05	5.339E+01	1.985E+03	1.589E+06	1.068E+02
2114	1.384E+03	7.559E+05	5.079E+01	1.888E+03	1.512E+06	1.016E+02
2115	1.316E+03	7.190E+05	4.831E+01	1.796E+03	1.438E+06	9.662E+01
2116	1.252E+03	6.840E+05	4.596E+01	1.708E+03	1.368E+06	9.191E+01
2117	1.191E+03	6.506E+05	4.371E+01	1.625E+03	1.301E+06	8.743E+01
2118	1.133E+03	6.189E+05	4.158E+01	1.546E+03	1.238E+06	8.316E+01
2119	1.078E+03	5.887E+05	3.955E+01	1.470E+03	1.177E+06	7.911E+01
2120	1.025E+03	5.600E+05	3.763E+01	1.399E+03	1.120E+06	7.525E+01
2121	9.751E+02	5.327E+05	3.579E+01	1.330E+03	1.065E+06	7.158E+01
2122	9.275E+02	5.067E+05	3.404E+01	1.266E+03	1.013E+06	6.809E+01
2123	8.823E+02	4.820E+05	3.238E+01	1.204E+03	9.640E+05	6.477E+01
2124	8.392E+02	4.585E+05	3.080E+01	1.145E+03	9.170E+05	6.161E+01
2125	7.983E+02	4.361E+05	2.930E+01	1.089E+03	8.722E+05	5.861E+01
2126	7.594E+02	4.148E+05	2.787E+01	1.036E+03	8.297E+05	5.575E+01
2127	7.223E+02	3.946E+05	2.651E+01	9.856E+02	7.892E+05	5.303E+01
2128	6.871E+02	3.754E+05	2.522E+01	9.375E+02	7.507E+05	5.044E+01

INVENTORY

Landfill Name or Identifier: Wetzel County Landfill

Enter year of emissions inventory: 2015

Gas / Pollutant	Emission Rate				
	(Mg/year)	(m^3/year)	(av ft^3/min)	(ft^3/year)	(short tons/year)
Total landfill gas	2.246E+04	1.798E+07	1.208E+03	6.351E+08	2.471E+04
Methane	**5.999E+03**	**8.992E+06**	**6.042E+02**	**3.176E+08**	**6.599E+03**
Carbon dioxide	1.646E+04	8.992E+06	6.042E+02	3.176E+08	1.811E+04
NMOC	3.836E+01	1.070E+04	7.190E-01	3.779E+05	4.219E+01
1,1,1-Trichloroethane (methyl chloroform) - HAP	4.790E-02	8.633E+00	5.800E-04	3.049E+02	5.269E-02
1,1,2,2-Tetrachloroethane - HAP/VOC	1.381E-01	1.978E+01	1.329E-03	6.986E+02	1.519E-01
1,1-Dichloroethane (ethylidene dichloride) - HAP/VOC	1.777E-01	4.316E+01	2.900E-03	1.524E+03	1.954E-01
1,1-Dichloroethene (vinylidene chloride) - HAP/VOC	1.450E-02	3.597E+00	2.417E-04	1.270E+02	1.595E-02
1,2-Dichloroethane (ethylene dichloride) - HAP/VOC	3.035E-02	7.374E+00	4.954E-04	2.604E+02	3.339E-02
1,2-Dichloropropane (propylene dichloride) - HAP/VOC	1.521E-02	3.237E+00	2.175E-04	1.143E+02	1.674E-02
2-Propanol (isopropyl alcohol) - VOC	2.248E+00	8.992E+02	6.042E-02	3.176E+04	2.473E+00
Acetone	3.041E-01	1.259E+02	8.459E-03	4.446E+03	3.345E-01
Acrylonitrile - HAP/VOC	2.501E-01	1.133E+02	7.613E-03	4.001E+03	2.751E-01
Benzene - No or Unknown Co-disposal - HAP/VOC	1.110E-01	3.417E+01	2.296E-03	1.207E+03	1.221E-01
Benzene - Co-disposal - HAP/VOC	6.427E-01	1.978E+02	1.329E-02	6.986E+03	7.070E-01
Bromodichloromethane - VOC	3.799E-01	5.575E+01	3.746E-03	1.969E+03	4.179E-01
Butane - VOC	2.174E-01	8.992E+01	6.042E-03	3.176E+03	2.391E-01
Carbon disulfide - HAP/VOC	3.303E-02	1.043E+01	7.009E-04	3.684E+02	3.633E-02
Carbon monoxide	2.933E+00	2.518E+03	1.692E-01	8.892E+04	3.227E+00
Carbon tetrachloride - HAP/VOC	4.603E-04	7.194E-02	4.834E-06	2.541E+00	5.063E-04
Carbonyl sulfide - HAP/VOC	2.202E-02	8.813E+00	5.921E-04	3.112E+02	2.422E-02
Chlorobenzene - HAP/VOC	2.105E-02	4.496E+00	3.021E-04	1.588E+02	2.315E-02
Chlorodifluoromethane	8.409E-02	2.338E+01	1.571E-03	8.257E+02	9.250E-02
Chloroethane (ethyl chloride) - HAP/VOC	6.274E-02	2.338E+01	1.571E-03	8.257E+02	6.902E-02
Chloroform - HAP/VOC	2.679E-03	5.395E-01	3.625E-05	1.905E+01	2.947E-03
Chloromethane - VOC	4.532E-02	2.158E+01	1.450E-03	7.622E+02	4.985E-02
Dichlorobenzene - (HAP for para isomer/VOC)	2.309E-02	3.777E+00	2.538E-04	1.334E+02	2.540E-02
Dichlorodifluoromethane	1.447E+00	2.878E+02	1.933E-02	1.016E+04	1.592E+00
Fluorofluoromethane - VOC	2.002E-01	4.676E+01	3.142E-03	1.651E+03	2.202E-01
Dichloromethane (methylene chloride) - HAP	8.895E-01	2.518E+02	1.692E-02	8.892E+03	9.785E-01
Dimethyl sulfide (methyl sulfide) - VOC	3.625E-01	1.403E+02	9.426E-03	4.954E+03	3.988E-01
Ethane	2.002E+01	1.601E+04	1.075E+00	5.653E+05	2.202E+01
Ethanol - VOC	9.307E-01	4.856E+02	3.263E-02	1.715E+04	1.024E+00
Ethyl mercaptan (ethanethiol) - VOC	1.069E-01	4.137E+01	2.779E-03	1.461E+03	1.176E-01
Ethylbenzene - HAP/VOC	3.653E-01	8.273E+01	5.559E-03	2.922E+03	4.018E-01
Ethylene dibromide - HAP/VOC	1.405E-04	1.798E-02	1.208E-06	6.351E-01	1.546E-04
Fluorotrichloromethane - VOC	7.810E-02	1.367E+01	9.184E-04	4.827E+02	8.591E-02
Hexane - HAP/VOC	4.255E-01	1.187E+02	7.975E-03	4.192E+03	4.680E-01
Hydrogen sulfide	9.178E-01	6.475E+02	4.350E-02	2.286E+04	1.010E+00
Mercury (total) - HAP	4.352E-05	5.216E-03	3.504E-07	1.842E-01	4.787E-05
Methyl ethyl ketone - HAP/VOC	3.830E-01	1.277E+02	8.580E-03	4.509E+03	4.213E-01
Methyl isobutyl ketone - HAP/VOC	1.424E-01	3.417E+01	2.296E-03	1.207E+03	1.566E-01
Methyl mercaptan - VOC	8.997E-02	4.496E+01	3.021E-03	1.588E+03	9.897E-02
Pentane - VOC	1.781E-01	5.935E+01	3.988E-03	2.096E+03	1.959E-01
Perchloroethylene (tetrachloroethylene) - HAP	4.590E-01	6.654E+01	4.471E-03	2.350E+03	5.049E-01
Propane - VOC	3.628E-01	1.978E+02	1.329E-02	6.986E+03	3.991E-01
t-1,2-Dichloroethene - VOC	2.030E-01	5.036E+01	3.384E-03	1.778E+03	2.233E-01
Toluene - No or Unknown Co-disposal - HAP/VOC	2.688E+00	7.014E+02	4.713E-02	2.477E+04	2.957E+00
Toluene - Co-disposal - HAP/VOC	1.172E+01	3.057E+03	2.054E-01	1.080E+05	1.289E+01
Trichloroethylene (trichloroethene) - HAP/VOC	2.752E-01	5.036E+01	3.384E-03	1.778E+03	3.027E-01
Vinyl chloride - HAP/VOC	3.413E-01	1.313E+02	8.821E-03	4.636E+03	3.754E-01
Xylenes - HAP/VOC	9.529E-01	2.158E+02	1.450E-02	7.622E+03	1.048E+00

INVENTORY

Landfill Name or Identifier: Wetzel County Landfill (Maximum Potential in 2020)

Enter year of emissions inventory: 2020

Gas / Pollutant	Emission Rate				
	(Mg/year)	*(m^3/year)*	*(av ft^3/min)*	*(ft^3/year)*	*(short tons/year)*
Total landfill gas	2.704E+04	2.165E+07	1.455E+03	7.646E+08	2.974E+04
Methane	7.222E+03	1.083E+07	7.274E+02	3.823E+08	7.944E+03
Carbon dioxide	1.982E+04	1.083E+07	7.274E+02	3.823E+08	2.180E+04
NMOC	4.618E+01	1.288E+04	8.656E-01	4.549E+05	5.079E+01
1,1,1-Trichloroethane (methyl chloroform) - HAP	5.767E-02	1.039E+01	6.983E-04	3.670E+02	6.343E-02
1,1,2,2-Tetrachloroethane - HAP/VOC	1.663E-01	2.382E+01	1.600E-03	8.411E+02	1.829E-01
1,1-Dichloroethane (ethylidene dichloride) - HAP/VOC	2.139E-01	5.196E+01	3.491E-03	1.835E+03	2.353E-01
1,1-Dichloroethene (vinylidene chloride) - HAP/VOC	1.746E-02	4.330E+00	2.909E-04	1.529E+02	1.921E-02
1,2-Dichloroethane (ethylene dichloride) - HAP/VOC	3.654E-02	8.877E+00	5.964E-04	3.135E+02	4.019E-02
1,2-Dichloropropane (propylene dichloride) - HAP/VOC	1.831E-02	3.897E+00	2.618E-04	1.376E+02	2.015E-02
2-Propanol (isopropyl alcohol) - VOC	2.707E+00	1.083E+03	7.274E-02	3.823E+04	2.977E+00
Acetone	3.661E-01	1.516E+02	1.018E-02	5.352E+03	4.027E-01
Acrylonitrile - HAP/VOC	3.010E-01	1.364E+02	9.165E-03	4.817E+03	3.311E-01
Benzene - No or Unknown Co-disposal - HAP/VOC	1.336E-01	4.114E+01	2.764E-03	1.453E+03	1.470E-01
Benzene - Co-disposal - HAP/VOC	7.737E-01	2.382E+02	1.600E-02	8.411E+03	8.511E-01
Bromodichloromethane - VOC	4.573E-01	6.712E+01	4.510E-03	2.370E+03	5.031E-01
Butane - VOC	2.617E-01	1.083E+02	7.274E-03	3.823E+03	2.879E-01
Carbon disulfide - HAP/VOC	3.976E-02	1.256E+01	8.437E-04	4.435E+02	4.374E-02
Carbon monoxide	3.531E+00	3.031E+03	2.037E-01	1.070E+05	3.884E+00
Carbon tetrachloride - HAP/VOC	5.541E-04	8.660E-02	5.819E-06	3.058E+00	6.096E-04
Carbonyl sulfide - HAP/VOC	2.651E-02	1.061E+01	7.128E-04	3.747E+02	2.916E-02
Chlorobenzene - HAP/VOC	2.534E-02	5.413E+00	3.637E-04	1.911E+02	2.787E-02
Chlorodifluoromethane	1.012E-01	2.815E+01	1.891E-03	9.940E+02	1.114E-01
Chloroethane (ethyl chloride) - HAP/VOC	7.553E-02	2.815E+01	1.891E-03	9.940E+02	8.309E-02
Chloroform - HAP/VOC	3.225E-03	6.495E-01	4.364E-05	2.294E+01	3.548E-03
Chloromethane - VOC	5.456E-02	2.598E+01	1.746E-03	9.175E+02	6.002E-02
Dichlorobenzene - (HAP for para isomer/VOC)	2.780E-02	4.547E+00	3.055E-04	1.606E+02	3.058E-02
ichlorodifluoromethane	1.742E+00	3.464E+02	2.328E-02	1.223E+04	1.916E+00
chlorofluoromethane - VOC	2.410E-01	5.629E+01	3.782E-03	1.988E+03	2.651E-01
Dichloromethane (methylene chloride) - HAP	1.071E+00	3.031E+02	2.037E-02	1.070E+04	1.178E+00
Dimethyl sulfide (methyl sulfide) - VOC	4.364E-01	1.689E+02	1.135E-02	5.964E+03	4.800E-01
Ethane	2.410E+01	1.927E+04	1.295E+00	6.805E+05	2.651E+01
Ethanol - VOC	1.120E+00	5.846E+02	3.928E-02	2.064E+04	1.232E+00
Ethyl mercaptan (ethanethiol) - VOC	1.287E-01	4.980E+01	3.346E-03	1.759E+03	1.416E-01
Ethylbenzene - HAP/VOC	4.398E-01	9.959E+01	6.692E-03	3.517E+03	4.837E-01
Ethylene dibromide - HAP/VOC	1.692E-04	2.165E-02	1.455E-06	7.646E-01	1.861E-04
Fluorotrichloromethane - VOC	9.402E-02	1.645E+01	1.106E-03	5.811E+02	1.034E-01
Hexane - HAP/VOC	5.122E-01	1.429E+02	9.601E-03	5.046E+03	5.634E-01
Hydrogen sulfide	1.105E+00	7.794E+02	5.237E-02	2.753E+04	1.215E+00
Mercury (total) - HAP	5.239E-05	6.279E-03	4.219E-07	2.217E-01	5.763E-05
Methyl ethyl ketone - HAP/VOC	4.610E-01	1.537E+02	1.033E-02	5.429E+03	5.072E-01
Methyl isobutyl ketone - HAP/VOC	1.714E-01	4.114E+01	2.764E-03	1.453E+03	1.885E-01
Methyl mercaptan - VOC	1.083E-01	5.413E+01	3.637E-03	1.911E+03	1.191E-01
Pentane - VOC	2.144E-01	7.145E+01	4.801E-03	2.523E+03	2.358E-01
Perchloroethylene (tetrachloroethylene) - HAP	5.525E-01	8.011E+01	5.382E-03	2.829E+03	6.078E-01
Propane - VOC	4.367E-01	2.382E+02	1.600E-02	8.411E+03	4.804E-01
t-1,2-Dichloroethene - VOC	2.444E-01	6.062E+01	4.073E-03	2.141E+03	2.689E-01
Toluene - No or Unknown Co-disposal - HAP/VOC	3.236E+00	8.444E+02	5.673E-02	2.982E+04	3.559E+00
Toluene - Co-disposal - HAP/VOC	1.410E+01	3.681E+03	2.473E-01	1.300E+05	1.551E+01
Trichloroethylene (trichloroethene) - HAP/VOC	3.313E-01	6.062E+01	4.073E-03	2.141E+03	3.645E-01
Vinyl chloride - HAP/VOC	4.109E-01	1.581E+02	1.062E-02	5.582E+03	4.519E-01
Xylenes - HAP/VOC	1.147E+00	2.598E+02	1.746E-02	9.175E+03	1.262E+00