PART 70
PERMIT TO OPERATE

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to operate the air contaminant source(s) described below, in accordance with the laws, rules, and conditions set forth herein.

Operating Permit Number: OP2014-002
Expiration Date: SEP - 4 2019
Installation ID: 121-0027
Project Number: 2012-08-020

Installation Name and Address
Advanced Disposal Services Maple Hill Landfill, Inc.
31226 Intrepid Road, P.O. Box 247
Macon, MO 63552
Macon County

Parent Company's Name and Address
Advanced Disposal Services, Inc
90 Fort Wade Road
Ponte Vedra Beach FL, 32081

Installation Description:
Advanced Disposal Services Maple Hill Landfill, Inc. operates a municipal solid waste landfill near Macon, MO. The installation first began accepting waste in 1976. The landfill is broken into four (4) areas (phases) and has a total design capacity of 38.2 million cubic meters (m$^3$). The installation voluntarily installed a collection flare to control emissions.

This facility was formerly known as Veolia ES Maple Hill Landfill and Superior Services Maple Hill Landfill.

SEP - 5 2014

Effective Date

[Signature]
Director of Designee
Department of Natural Resources
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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION
Advanced Disposal Services Maple Hill Landfill, Inc. operates a municipal solid waste landfill near Macon, MO. The installation first began accepting waste in 1976. The landfill is broken into four (4) areas (phases) and has a total design capacity of 38.2 million cubic meters (m³). This facility was formerly known as Veolia ES Maple Hill Landfill.

A flare is being used to control methane and nonmethane organic emissions from the landfill. This flare was voluntarily installed with Construction Permit #072000-003 and is not considered to be a modification to the landfill.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulate Matter ≤ Ten Microns (PM$_{10}$)</td>
<td>3.22</td>
<td>3.35</td>
<td>2.35</td>
<td>4.40</td>
<td>4.61</td>
</tr>
<tr>
<td>Particulate Matter ≤ 2.5 Microns (PM$_{2.5}$)</td>
<td>1.28</td>
<td>1.25</td>
<td>1.10</td>
<td>1.01</td>
<td>0.94</td>
</tr>
<tr>
<td>Sulfur Oxides (SO$_x$)</td>
<td>0.88</td>
<td>0.83</td>
<td>0.79</td>
<td>0.83</td>
<td>0.78</td>
</tr>
<tr>
<td>Nitrogen Oxides (NO$_x$)</td>
<td>2.51</td>
<td>2.39</td>
<td>2.25</td>
<td>2.38</td>
<td>2.22</td>
</tr>
<tr>
<td>Volatile Organic Compounds (VOC)</td>
<td>1.62</td>
<td>1.54</td>
<td>1.46</td>
<td>1.53</td>
<td>1.43</td>
</tr>
<tr>
<td>Carbon Monoxide (CO)</td>
<td>47.23</td>
<td>44.92</td>
<td>42.26</td>
<td>44.66</td>
<td>41.59</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Hazardous Air Pollutants (HAPs)</td>
<td>0.64</td>
<td>0.60</td>
<td>0.57</td>
<td>0.60</td>
<td>0.57</td>
</tr>
<tr>
<td>Ammonia (NH$_3$)</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

EMISSION UNITS WITH LIMITATIONS
The following list provides a description of the equipment at this installation that emits air pollutants and that are identified as having unit-specific emission limitations.

<table>
<thead>
<tr>
<th>Emission Unit #</th>
<th>Description of Emission Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-01</td>
<td>Landfill</td>
</tr>
<tr>
<td>EP-01</td>
<td>Landfill Gas Flare</td>
</tr>
</tbody>
</table>

EMISSION UNITS WITHOUT LIMITATIONS
The following list provides a description of the equipment that does not have unit specific limitations at the time of permit issuance.
<table>
<thead>
<tr>
<th>EIQ Reference #</th>
<th>Description of Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-02</td>
<td>Haul Road</td>
</tr>
<tr>
<td>EP-03</td>
<td>100,000-Gallon Leachate Tank</td>
</tr>
<tr>
<td>EP-4</td>
<td>12,000-Gallon Diesel Tank</td>
</tr>
<tr>
<td>EP-6</td>
<td>1,000-Gallon Used Oil Tank</td>
</tr>
<tr>
<td>EP-7</td>
<td>600-Gallon Diesel Tank</td>
</tr>
<tr>
<td>EP-8</td>
<td>275-Gallon Motor Oil Tank</td>
</tr>
<tr>
<td>EP-9</td>
<td>275-Gallon Hydraulic Oil Tank</td>
</tr>
</tbody>
</table>

**DOCUMENTS INCORPORATED BY REFERENCE**
Currently no documents have been incorporated by reference into this permit.
II. Plant Wide Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

PERMIT CONDITION PW001
10 CSR 10-6.080 Emission Standards for Hazardous Air Pollutants

Emission/Operational Limitations:
The permittee of an active waste disposal site that receives asbestos-containing waste material from a source covered under §61.149, 61.150, or 61.155 shall meet the requirements of this section: 

1) Either there must be no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited, or the requirements of §61.154(c) or (d) must be met. 

2) Unless a natural barrier adequately deters access by the general public, either warning signs and fencing must be installed and maintained as follows, or the requirements of §61.154(c)(1) of this section must be met. 

a) Warning signs must be displayed at all entrances and at intervals of 100 m (330 ft) or less along the property line of the site or along the perimeter of the sections of the site where asbestos-containing waste material is deposited. The warning signs must: 

i) Be posted in such a manner and location that a person can easily read the legend; and 
ii) Conform to the requirements of 51 cm × 36 cm (20 inch × 14 inch;) upright format signs specified in 29 CFR 1910.145(d)(4) and this paragraph; and 
iii) Display the following legend in the lower panel with letter sizes and styles of a visibility at least equal to those specified in this paragraph.

<table>
<thead>
<tr>
<th>Legend</th>
<th>Notation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asbestos Waste Disposal Site</td>
<td>2.5 cm (1 inch) Sans Serif, Gothic or Block.</td>
</tr>
<tr>
<td>Do Not Create Dust</td>
<td>1.9 cm (3/4 inch) Sans Serif, Gothic or Block</td>
</tr>
<tr>
<td>Breathing Asbestos is Hazardous to Your Health</td>
<td>14 Point Gothic.</td>
</tr>
</tbody>
</table>

Spacing between any two lines must be at least equal to the height of the upper of the two lines. 

b) The perimeter of the disposal site must be fenced in a manner adequate to deter access by the general public. 

c) Upon request and supply of appropriate information, the Director will determine whether a fence or a natural barrier adequately deters access by the general public. 

3) Rather than meet the no visible emission requirement of §61.154(a), at the end of each operating day, or at least once every 24-hour period while the site is in continuous operation, the asbestos-
containing waste material that has been deposited at the site during the operating day or previous 24-hour period shall: [§61.154(c)]

a) Be covered with at least 15 centimeters (6 inches) of compacted non-asbestos-containing material, or [§61.154(c)(1)]

b) Be covered with a resinous or petroleum-based dust suppression agent that effectively binds dust and controls wind erosion. Such an agent shall be used in the manner and frequency recommended for the particular dust by the dust suppression agent manufacturer to achieve and maintain dust control. Other equally effective dust suppression agents may be used upon prior approval by the Director. For purposes of this paragraph, any used, spent, or other waste oil is not considered a dust suppression agent. [§61.154(c)(2)]

4) Rather than meet the no visible emission requirement of §61.154(a), use an alternative emissions control method that has received prior written approval by the Director according to the procedures described in §61.154(c)(2). [§61.154(d)]

5) Upon closure, comply with all the provisions of §61.151. [§61.154(g)]

**Recordkeeping:**

1) For all asbestos-containing waste material received, the permittee of the active waste disposal site shall: [§61.154(e)]

a) Maintain waste shipment records, using a form similar to that shown in Figure 4 of 40 CFR 61, Subpart M (see Attachment D), and include the following information: [§61.154(e)(1)]

   i) The name, address, and telephone number of the waste generator. [§61.154(e)(1)(i)]

   ii) The name, address, and telephone number of the transporter(s). [§61.154(e)(1)(ii)]

   iii) The quantity of the asbestos-containing waste material in cubic meters (cubic yards). [§61.154(e)(1)(iii)]

   iv) The presence of improperly enclosed or uncovered waste, or any asbestos-containing waste material not sealed in leak-tight containers. Report in writing to the local, State, or Environmental Protection Agency’s (EPA) Regional Office responsible for administering the asbestos National Emissions Standards for Hazardous Air Pollutants (NESHAP) program for the waste generator (identified in the waste shipment record), and, if different, the local, State, or EPA Regional Office responsible for administering the asbestos NESHAP program for the disposal site, by the following working day, the presence of a significant amount of improperly enclosed or uncovered waste. Submit a copy of the waste shipment record along with the report. [§61.154(e)(1)(iv)]

   v) The date of the receipt. [§61.154(e)(1)(v)]

b) Retain a copy of all records and reports required by §61.154(e) for at least two years. [§61.154(e)(4)]

2) Maintain, until closure, records of the location, depth and area, and quantity in cubic meters (cubic yards) of asbestos-containing waste material within the disposal site on a map or diagram of the disposal area. [§61.154(f)]

**Reporting:**

1) For all asbestos-containing waste material received, the permittee of the active waste disposal site shall send a copy of the signed waste shipment record to the waste generator as soon as possible and no longer than 30 days after receipt of the waste. [§61.154(e)(2)]

2) Submit to the Director, upon closure of the facility, a copy of records of asbestos waste disposal locations and quantities. [§61.154(h)]

3) Furnish upon request, and make available during normal business hours for inspection by the Director, all records required under this section. [§61.154(i)]
4) Notify the Director in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site and is covered. If the excavation will begin on a date other than the one contained in the original notice, notice of the new start date must be provided to the Director at least ten working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. Include the following information in the notice: [§61.154(j)]
   a) Scheduled starting and completion dates. [§61.154(j)(1)]
   b) Reason for disturbing the waste. [§61.154(j)(2)]
   c) Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material. If deemed necessary, the Director may require changes in the emission control procedures to be used. [§61.154(j)(3)]
   d) Location of any temporary storage site and the final disposal site. [§61.154(j)(4)]
III. Emission Unit Specific Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
<th>Manufacturer/Model #</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-01</td>
<td>Municipal Solid Waste Landfill: total design capacity 38.2 million m$^3$ in 4 phases; First waste acceptance date 1976.</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Emission Limitations:**
Each permittee of an MSW landfill having a design capacity equal to or greater than two and one-half (2.5) million megagrams and two and one-half (2.5) million cubic meters shall either comply with paragraph (3)(B)2. of this rule or calculate an NMOC emission rate for the landfill using the procedures specified in section (5) of this rule. The NMOC emission rate shall be recalculated annually, except as provided in subparagraph (8)(B)1.B. of this rule. The permittee of an MSW landfill subject to this rule with a design capacity greater than or equal to two and one-half (2.5) million megagrams and two and one-half (2.5) million cubic meters is subject to 40 CFR 70 or 71 permitting requirements.

**Monitoring:**
The NMOC emission rate shall be recalculated annually, except as provided in subparagraph (8)(B)1.B. of this rule.

1) If the calculated NMOC emission rate is less than fifty (50) megagrams per year, the permittee shall –
   a) Submit an annual emission report to the director, except as provided for in paragraph (8)(B)1.B. of this rule; and
   b) Recalculate the NMOC emission rate annually using the procedures specified in subparagraph (5)(A)1. of this rule until such time as the calculated NMOC emission rate is equal to or greater than fifty (50) megagrams per year or the landfill is closed.
   i) If the NMOC emission rate, upon recalculation required in subparagraph (3)(B)1.B. of this rule is equal to or greater than fifty (50) megagrams per year, the permittee shall install a collection and control system in compliance with paragraph (3)(B)2. of this rule.
   ii) If the landfill is permanently closed, a closure notification shall be submitted to the director as provided for in subsection (8)(D) of this rule.

2) If the calculated NMOC emission rate is equal to or greater than fifty (50) megagrams per year, the permittee shall:
   a) Submit a collection and control system design plan prepared by a professional engineer to the director within one (1) year. Permit modification approval from the Missouri Department of Natural Resources’ Solid Waste Management Program shall be required prior to construction of any gas collection system.
   i) The collection and control system as described in the plan shall meet the design requirements of subparagraph (3)(B)2.B. of this rule.
ii) The collection and control system design plan shall include any alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, recordkeeping, or reporting provisions of sections (4) through (9) of this rule proposed.

iii) The collection and control system design plan shall either conform with specifications for active collection systems in section (10) of this rule or include a demonstration to the director’s satisfaction of the sufficiency of the alternative provisions to section (10) of this rule. [10 CSR 10-6.310(3)(B)2.A(III)]

iv) The director shall review the information submitted under parts (3)(B)2.A.(I), (II), and (III) of this rule and either approve it, disapprove it, or request that additional information be submitted. Because of the many site-specific factors involved with landfill gas system design, alternative systems may be necessary. A wide variety of system designs are possible, such as vertical wells, combination horizontal and vertical collection systems, horizontal trenches only, leachate collection components, and passive systems; [10 CSR 10-6.310(3)(B)2.A(IV)]

b) Install a collection and control system that captures the gas generated within the landfill as required by part (3)(B)2.B.(I) or (II) and subparagraph (3)(B)2.C. of this rule within thirty (30) months after the first annual report in which the emission rate equals or exceeds fifty (50) megagrams per year, unless Tier 2 or Tier 3 sampling under section (5) of this rule demonstrates that the emission rate is less than fifty (50) megagrams per year, as specified in paragraph (8)(C)1. or 2. of this rule. [10 CSR 10-6.310(3)(B)2.B]

i) An active collection system shall— [10 CSR 10-6.310(3)(B)2.B(I)]
   (1) Be designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control or treatment system equipment; [10 CSR 10-6.310(3)(B)2.B(I)(a)]
   (2) Collect gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for a period of— [10 CSR 10-6.310(3)(B)2.B(I)(b)]
      (a) Five (5) years or more if active; or [10 CSR 10-6.310(3)(B)2.B(I)(b)I]
      (b) Two (2) years or more if closed or at final grade; [10 CSR 10-6.310(3)(B)2.B(I)(b)II]
   (3) Collect gas at a sufficient extraction rate; and [10 CSR 10-6.310(3)(B)2.B(I)(c)]
   (4) Be designed to minimize offsite migration of subsurface gas. [10 CSR 10-6.310(3)(B)2.B(I)(d)]

ii) A passive collection system shall— [10 CSR 10-6.310(3)(B)2.B(II)]
   (1) Comply with the provisions specified in subparts (3)(B)2.B.(I)(a), (b), and (d) of this rule; and [10 CSR 10-6.310(3)(B)2.B(II)(a)]
   (2) Be installed with liners on the bottom and all sides in all areas in which gas is to be collected. The liners shall be installed as required under 40 CFR 258.40; [10 CSR 10-6.310(3)(B)2.B(II)(b)]

c) Route all the collected gas to one (1) or more of the following control systems: [10 CSR 10-6.310(3)(B)2.C]
   i) An open flare designed and operated in accordance with 40 CFR 60.18 except as noted in subsection (5)(E) of this rule; [10 CSR 10-6.310(3)(B)2.C(I)]

ii) A control system designed and operated to reduce NMOC by ninety-eight (98) weight-percent, or, when an enclosed combustion device is used for control, to either reduce NMOC by ninety-eight (98) weight-percent or reduce the outlet NMOC concentration to less than twenty parts per million by volume (20 ppmv), dry basis as hexane at three percent (3%) oxygen. The reduction efficiency or parts per million by volume shall be established by an initial performance test to be completed no later than one hundred eighty (180) days after the
initial startup of the approved control system using the test methods specified in subsection (5)(D) of this rule. [10 CSR 10-6.310(3)(B)2.C(II)]

(1) If a boiler or process heater is used as the control device, the landfill gas stream shall be introduced into the flame zone. [10 CSR 10-6.310(3)(B)2.C(II)(a)]

(2) The control device shall be operated within the parameter ranges established during the initial or most recent performance test. The operating parameters to be monitored are specified in section (7) of this rule; or [10 CSR 10-6.310(3)(B)2.C(II)(b)]

iii) A system that routes the collected gas to a treatment system that processes the collected gas for subsequent sale or use. All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirements of part (3)(B)2.C.(I) or (II) of this rule; [10 CSR 10-6.310(3)(B)2.C(III)]

d) Operate the collection and control device installed to comply with this rule in accordance with the provisions of sections (4), (6), and (7) of this rule; [10 CSR 10-6.310(3)(B)2.D]

e) The collection and control system may be capped or removed provided that all the conditions of parts (3)(B)2.E.(I), (II), and (III) of this rule are met— [10 CSR 10-6.310(3)(B)2.E]

i) The landfill shall be no longer accepting solid waste and be permanently closed under the requirements of 40 CFR 258.60. A closure report shall be submitted to the director as provided in subsection (8)(D) of this rule; [10 CSR 10-6.310(3)(B)2.E(I)]

ii) The collection and control system shall have been in operation a minimum of fifteen (15) years; and [10 CSR 10-6.310(3)(B)2.E(II)]

iii) Following the procedures specified in subsection (5)(B) of this rule, the calculated NMOC gas produced by the landfill shall be less than fifty (50) megagrams per year on three (3) successive test dates. The test dates shall be no less than ninety (90) days apart, and no more than one hundred eighty (180) days apart; and [10 CSR 10-6.310(3)(B)2.E(III)]

f) The planning, awarding of contracts, and installation of MSW landfill air emission collection and control equipment capable of meeting the emission standards in subsection (3)(B) of this rule shall be accomplished within thirty (30) months after the date the initial NMOC emission rate report shows NMOC emissions equal or exceed fifty (50) megagrams per year. [10 CSR 10-6.310(3)(B)2.F]

**Recordkeeping:**

1) Each permittee of an MSW landfill subject to the provisions of subsection (3)(B) of this rule shall keep for at least five (5) years up-to-date, readily accessible, onsite records of the design capacity report which triggered subsection (3)(B) of this rule, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Records may be maintained off-site if they are retrievable within four (4) hours. A longer period is acceptable if records are needed for an unresolved enforcement action. Either paper copy or electronic formats are acceptable. [10 CSR 10-6.310(9)(A)]

**Reporting:**

Except as provided in part (3)(B)2.A.(II) of this rule

1) Each permittee subject to the requirements of this rule shall submit an NMOC emission rate report to the director initially and annually thereafter, except as provided for in subparagraph (8)(B)1.B. or paragraph (8)(B)3. of this rule. The director may request such additional information as may be necessary to verify the reported NMOC emission rate. [10 CSR 10-6.310(8)(B)]
a) The NMOC emission rate report shall contain an annual or five (5)-year estimate of the NMOC emission rate calculated using the formula and procedures provided in subsection (5)(A) or (B) of this rule, as applicable. [10 CSR 10-6.310(8)(B)1]

i) The initial NMOC emission rate report shall be submitted within ninety (90) days of the rule effective date and may be combined with the initial design capacity report required in subsection (8)(A) of this rule. Subsequent NMOC emission rate reports shall be submitted annually thereafter, except as provided for in subparagraph (8)(B)1.B. and paragraph (8)(B)3. of this rule. [10 CSR 10-6.310(8)(B)1.A]

ii) If the estimated NMOC emission rate as reported in the annual report to the director is less than fifty (50) megagrams per year in each of the next five (5) consecutive years, the permittee may elect to submit an estimate of the NMOC emission rate for the next five (5)-year period in lieu of the annual report. This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the five (5) years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is based shall be provided to the director. This estimate shall be revised at least once every five (5) years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the five (5)-year estimate, a revised five (5)-year estimate shall be submitted to the director. The revised estimate shall cover the five (5)-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate. [10 CSR 10-6.310(8)(B)1.B]

b) The NMOC emission rate report shall include all the data, calculations, sample reports, and measurements used to estimate the annual or five (5)-year emissions. [10 CSR 10-6.310(8)(B)2]

c) Each permittee subject to the requirements of this rule is exempted from the requirements of paragraphs (8)(B)1. And 2. of this rule after the installation of a collection and control system in compliance with paragraph (3)(B)2. of this rule, during such time as the collection and control system is in operation and in compliance with sections (4) and (6) of this rule; [10 CSR 10-6.310(8)(B)3]

2) Each permittee subject to the provisions of subparagraph (3)(B)2.A. of this rule shall submit a collection and control system design plan to the director within one (1) year of the first report, required under subsection (8)(B) of this rule, in which the emission rate equals or exceeds fifty (50) megagrams per year, except as follows: [10 CSR 10-6.310(8)(C)]

a) If the permittee elects to recalculate the NMOC emission rate after Tier 2 NMOC sampling and analysis as provided in paragraph (5)(A)3. of this rule and the resulting rate is less than fifty (50) megagrams per year, annual periodic reporting shall be resumed, using the Tier 2 determined site-specific NMOC concentration, until the calculated emission rate is equal to or greater than fifty (50) megagrams per year or the landfill is closed. The revised NMOC emission rate report, with the recalculated emission rate based on NMOC sampling and analysis, shall be submitted within one hundred eighty (180) days of the first calculated exceedance of fifty (50) megagrams per year; and [10 CSR 10-6.310(8)(C)1]

i) If the resulting NMOC mass emission rate is less than fifty (50) megagrams per year, the permittee shall submit a periodic estimate of the emission rate report as provided in paragraph (8)(B)1. of this rule and retest the site-specific NMOC concentration every five (5) years using the methods specified in this section. [10 CSR 10-6.310(5)(A)3.C.]

b) If the permittee elects to recalculate the NMOC emission rate after determining a site-specific methane generation rate constant k, as provided in Tier 3 in paragraph (5)(A)4. of this rule, and the resulting NMOC emission rate is less than fifty (50) Mg/yr, annual periodic reporting shall be resumed. The resulting site-specific methane generation rate constant k shall be used in the
emission rate calculation until such time as the emissions rate calculation results in an exceedance. The revised NMOC emission rate report based on the provisions of paragraph (5)(A)4. of this rule and the resulting site-specific methane generation rate constant \( k \) shall be submitted to the director within one (1) year of the first calculated emission rate exceeding fifty (50) megagrams per year; [10 CSR 10-6.310(8)(C)2]

i) If the NMOC mass emission rate is less than fifty (50) megagrams per year, then the permittee shall submit a periodic emission rate report as provided in paragraph (8)(B)1. of this rule and shall recalculate the NMOC mass emission rate annually, as provided in paragraph (8)(B)1. of this rule using the equations in paragraph (5)(A)1. of this rule and using site-specific methane generation rate constant and NMOC concentration obtained in paragraph (5)(A)3. of this rule. The calculation of the methane generation rate constant is performed only once, and the value obtained from this test shall be used in all subsequent annual NMOC emission rate calculations. [10 CSR 10-6.310(5)(A)4.B.]

**PERMIT CONDITION 2**

10 CSR 10-6.220 Restriction of Visible Air Contaminants

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
<th>Manufacturer/Model #</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-01</td>
<td>Landfill Gas Flare</td>
<td>N/A</td>
</tr>
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</table>

**Emission Limitation:**

1) No owner or other person shall cause or permit emissions to be discharged into the atmosphere from any new source any visible emissions with an opacity greater than 20%.

2) Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six minutes in any 60 minutes air contaminants with an opacity up to 60%.

**Monitoring:**

The permittee shall conduct qualitative visible emission observations on this emission unit using procedures contained in USEPA Test Method 22. At a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind and the presence of uncombined water. Observations should be carried out over at least a five (5) minute period. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed, then no further observations are required. If a violation of this regulation is discovered, the source representative would indicate the cause of the abnormal emissions and any corrective action(s) taken. The source representative will also indicate the total duration of any visible emission incident as part of the log described below.

1) The following monitoring schedule must be maintained:
   a) Monthly observations shall be conducted for a minimum of eight consecutive months after permit issuance. Should no violation of this regulation be observed during this period then-
   b) Observations must be made once every two months for a period of eight months. If a violation is noted, monitoring reverts to monthly. Should no violation of this regulation be observed during this period then-
c) Observations must be made semi-annually (i.e., once per reporting period). Observation shall be conducted during the January-June reporting period and during the July-December reporting period. If a violation is noted, monitoring reverts to monthly.

2) If at the time of this operating permit issuance the permittee has already progressed to conducting observations every two months or semi-annually, the permittee may continue from that point forward in the established monitoring schedule; however, if a violation is noted the permittee shall revert back to monthly monitoring.

3) If the source reverts to monthly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

**Recordkeeping:**

1) The permittee shall maintain records of all observation results (see Attachment A or B), noting:
   a) Whether any air emissions (except for water vapor) were visible from the emission unit, and
   b) Whether the visible emissions were normal for the process.

2) The permittee shall maintain records of any equipment malfunctions. (see Attachment C)

3) Attachment A and B contains logs including these recordkeeping requirements. These logs, or an equivalent created by the permittee, must be used to certify compliance with this requirement.

**Reporting:**

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Missouri Department of Natural Resources’ Air Pollution Control Program (APCP) Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).
IV. Core Permit Requirements

The installation shall comply with each of the following regulations or codes. Consult the appropriate sections in the Code of Federal Regulations (CFR), the Code of State Regulations (CSR), and local ordinances for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued. The following is only an excerpt from the regulation or code, and is provided for summary purposes only.

10 CSR 10-6.045 Open Burning Requirements

(1) General Provisions. The open burning of tires, petroleum-based products, asbestos containing materials, and trade waste is prohibited, except as allowed below. Nothing in this rule may be construed as to allow open burning which causes or constitutes a public health hazard, nuisance, a hazard to vehicular or air traffic, nor which violates any other rule or statute.

(2) Certain types of materials may be open burned provided an open burning permit is obtained from the director. The permit will specify the conditions and provisions of all open burning. The permit may be revoked if the owner or operator fails to comply with the conditions or any provisions of the permit.

(3) Advanced Disposal Services Maple Hill Landfill, Inc. may be issued an annually renewable open burning permit for open burning provided that an air curtain destructor or incinerator is utilized and only tree trunks, tree limbs, vegetation or untreated wood waste are burned. Open burning shall occur at least two hundred (200) yards from the nearest occupied structure unless the owner or operator of the occupied structure provides a written waiver of this requirement. Any waiver shall accompany the open burning permit application. The permit may be revoked if Advanced Disposal Services Maple Hill Landfill, Inc. fails to comply with the provisions or any condition of the open burning permit.

(A) In a nonattainment area, as defined in 10 CSR 10-6.020, paragraph (2)(N)5., the director shall not issue a permit under this section unless the owner or operator can demonstrate to the satisfaction of the director that the emissions from the open burning of the specified material would be less than the emissions from any other waste management or disposal method.

(4) Reporting and Record Keeping. New Source Performance Standard (NSPS) 40 CFR Part 60 Subpart CCCC establishes certain requirements for air curtain destructors or incinerators that burn wood trade waste. These requirements are established in 40 CFR 60.2245-60.2260. The provisions of 40 CFR part 60 Subpart CCCC promulgated as of September 22, 2005 shall apply and are hereby incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401. To comply with NSPS 40 CFR 60.2245-60.2260, sources must conduct an annual Method 9 test. A copy of the annual Method 9 test results shall be submitted to the director.


10 CSR 10-6.050 Start-up, Shutdown and Malfunction Conditions

1) In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the director within two business days, in writing, the following information:
   a) Name and location of installation;
b) Name and telephone number of person responsible for the installation;

c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.

d) Identity of the equipment causing the excess emissions;

e) Time and duration of the period of excess emissions;

f) Cause of the excess emissions;

g) Air pollutants involved;

h) Best estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude;

i) Measures taken to mitigate the extent and duration of the excess emissions; and

j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.

2) The permittee shall submit the paragraph 1 information list to the director in writing at least ten days prior to any maintenance, start-up or shutdown, which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given ten days prior to the planned occurrence, it shall be given as soon as practicable prior to the release. If an unplanned excess release of emissions exceeding one hour occurs during maintenance, start-up or shutdown, the director shall be notified verbally as soon as practical during normal working hours and no later than the close of business of the following working day. A written notice shall follow within ten working days.

3) Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph 1 list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under section 643.080 or 643.151, RSMo.

4) Nothing in this rule shall be construed to limit the authority of the director or commission to take appropriate action, under sections 643.080, 643.090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.

5) Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

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<tr>
<th>10 CSR 10-6.060 Construction Permits Required</th>
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The permittee shall not commence construction, modification, or major modification of any installation subject to this rule, begin operation after that construction, modification, or major modification, or begin operation of any installation which has been shut down longer than five years without first obtaining a permit from the permitting authority.

<table>
<thead>
<tr>
<th>10 CSR 10-6.065 Operating Permits</th>
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The permittee shall file a complete application for renewal of this operating permit at least six months before the date of permit expiration. In no event shall this time be greater than eighteen months. [10 CSR 10-6.065(6)(B)1.A(V)] The permittee shall retain the most current operating permit issued to this installation on-site. [10 CSR 10-6.065(6)(C)1.C(II)] The permittee shall immediately make such permit
available to any Missouri Department of Natural Resources personnel upon request. [10 CSR 10-6.065(6)(C)3.B]

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<tr>
<th>10 CSR 10-6.110 Submission of Emission Data, Emission Fees and Process Information</th>
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<tr>
<td>1) The permittee shall submit full emissions report either electronically via MoEIS, which requires Form 1.0 signed by an authorized company representative, or on Emission Inventory Questionnaire (EIQ) paper forms on the frequency specified in this rule and in accordance with the requirements outlined in this rule. Alternate methods of reporting the emissions, such as spreadsheet file, can be submitted for approval by the director.</td>
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<tr>
<td>2) The permittee may be required by the director to file additional reports.</td>
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<tr>
<td>3) Public Availability of Emission Data and Process Information. Any information obtained pursuant to the rule(s) of the Missouri Air Conservation Commission that would not be entitled to confidential treatment under 10 CSR 10-6.210 shall be made available to any member of the public upon request.</td>
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<tr>
<td>4) The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079.</td>
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<tr>
<td>5) The fees shall be payable to the Department of Natural Resources and shall be accompanied by the emissions report.</td>
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<tr>
<td>6) The permittee shall complete required reports on state supplied EIQ forms or electronically via MoEIS. Alternate methods of reporting the emissions can be submitted for approval by the director. The reports shall be submitted to the director by April 1 after the end of each reporting year. If the full emissions report is filed electronically via MoEIS, this due date is extended to May 1.</td>
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<tr>
<td>7) The reporting period shall end on December 31 of each calendar year. Each report shall contain the required information for each emission unit for the twelve (12)-month period immediately preceding the end of the reporting period.</td>
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<td>8) The permittee shall collect, record and maintain the information necessary to complete the required forms during each year of operation of the installation.</td>
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<tr>
<th>10 CSR 10-6.130 Controlling Emissions During Episodes of High Air Pollution Potential</th>
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<tr>
<td>This rule specifies the conditions that establish an air pollution alert (yellow/orange/red/purple), or emergency (maroon) and the associated procedures and emission reduction objectives for dealing with each. The permittee shall submit an appropriate emergency plan if required by the Director.</td>
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<tr>
<th>10 CSR 10-6.150 Circumvention</th>
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<td>The permittee shall not cause or permit the installation or use of any device or any other means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.</td>
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<tr>
<th>10 CSR 10-6.170 Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin</th>
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<tr>
<td><strong>Emission Limitation:</strong></td>
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<tr>
<td>1) The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive particulate matter emissions to go beyond the premises of origin in quantities that the particulate matter may be found on surfaces beyond the property line of origin. The nature or origin of the particulate matter...</td>
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matter shall be determined to a reasonable degree of certainty by a technique proven to be accurate and approved by the director.

2) The permittee shall not cause nor allow to occur any fugitive particulate matter emissions to remain visible in the ambient air beyond the property line of origin.

3) Should it be determined that noncompliance has occurred, the director may require reasonable control measures as may be necessary. These measures may include, but are not limited to, the following:
   a) Revision of procedures involving construction, repair, cleaning and demolition of buildings and their appurtenances that produce particulate matter emissions;
   b) Paving or frequent cleaning of roads, driveways and parking lots;
   c) Application of dust-free surfaces;
   d) Application of water; and
   e) Planting and maintenance of vegetative ground cover.

**10 CSR 10-6.180 Measurement of Emissions of Air Contaminants**

1) The director may require any person responsible for the source of emission of air contaminants to make or have made tests to determine the quantity or nature, or both, of emission of air contaminants from the source. The director may specify testing methods to be used in accordance with good professional practice. The director may observe the testing. All tests shall be performed by qualified personnel.

2) The director may conduct tests of emissions of air contaminants from any source. Upon request of the director, the person responsible for the source to be tested shall provide necessary ports in stacks or ducts and other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of the emission of air contaminants.

3) The director shall be given a copy of the test results in writing and signed by the person responsible for the tests.

**10 CSR 10-6.165 Restriction of Emission of Odors**

This requirement is not federally enforceable.

No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one hour. This odor evaluation shall be taken at a location outside of the installation’s property boundary.

**10 CSR 10-6.250 Asbestos Abatement Projects – Certification, Accreditation, and Business Exemption Requirements**

The permittee shall conduct all asbestos abatement projects within the procedures established for certification and accreditation by 10 CSR 10-6.250. This rule requires individuals who work in asbestos abatement projects to be certified by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires training providers who offer training for asbestos abatement occupations to be accredited by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires persons who hold exemption status from certain requirements of this rule to allow the department to monitor training provided to employees. Each individual who works in asbestos abatement projects must first obtain certification for the appropriate occupation from the department. Each person who offers training for asbestos abatement occupations must first obtain accreditation from the department. Certain business entities that meet the requirements for state-approved exemption status
must allow the department to monitor training classes provided to employees who perform asbestos abatement.

**Title VI – 40 CFR Part 82 Protection of Stratospheric Ozone**

1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
   a) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
   b) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
   c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
   d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.

2) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
   a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
   b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
   c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
   d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
   e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
   f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.

3) If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.

5) The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. **Federal Only - 40 CFR part 82**
10 CSR 10-6.280 Compliance Monitoring Usage

1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:
   a) Monitoring methods outlined in 40 CFR Part 64;
   b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, “Operating Permits”, and incorporated into an operating permit; and
   c) Any other monitoring methods approved by the director.

2) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:
   a) Monitoring methods outlined in 40 CFR Part 64;
   b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, “Operating Permits”, and incorporated into an operating permit; and
   c) Compliance test methods specified in the rule cited as the authority for the emission limitations.

3) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
   a) Applicable monitoring or testing methods, cited in:
      i) 10 CSR 10-6.030, “Sampling Methods for Air Pollution Sources”;
      ii) 10 CSR 10-6.040, “Reference Methods”; 
      iii) 10 CSR 10-6.070, “New Source Performance Standards”;
      iv) 10 CSR 10-6.080, “Emission Standards for Hazardous Air Pollutants”; or
   b) Other testing, monitoring, or information gathering methods, if approved by the director, that produce information comparable to that produced by any method listed above.
V. General Permit Requirements
The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued,

10 CSR 10-6.065(6)(C)1.B Permit Duration
This permit is issued for a term of five years, commencing on the date of issuance. This permit will expire at the end of this period unless renewed.

10 CSR 10-6.065(6)(C)1.C General Record Keeping and Reporting Requirements
1) Record Keeping
   a) All required monitoring data and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report or application.
   b) Copies of all current operating and construction permits issued to this installation shall be kept on-site for as long as the permits are in effect. Copies of these permits shall be made immediately available to any Missouri Department of Natural Resources’ personnel upon request.

2) Reporting
   a) All reports shall be submitted to the Air Pollution Control Program, Enforcement Section, P. O. Box 176, Jefferson City, MO 65102.
   b) The permittee shall submit a report of all required monitoring by:
      i) October 1st for monitoring which covers the January through June time period, and
      ii) April 1st for monitoring which covers the July through December time period.
      iii) Exception. Monitoring requirements which require reporting more frequently than semiannually shall report no later than 30 days after the end of the calendar quarter in which the measurements were taken.
   c) Each report shall identify any deviations from emission limitations, monitoring, record keeping, reporting, or any other requirements of the permit, this includes deviations or Part 64 exceedances.
   d) Submit supplemental reports as required or as needed. Supplemental reports are required no later than ten days after any exceedance of any applicable rule, regulation or other restriction. All reports of deviations shall identify the cause or probable cause of the deviations and any corrective actions or preventative measures taken.
      i) Notice of any deviation resulting from an emergency (or upset) condition as defined in paragraph (6)(C)7.A of 10 CSR 10-6.065 (Emergency Provisions) shall be submitted to the permitting authority either verbally or in writing within two working days after the date on which the emission limitation is exceeded due to the emergency, if the permittee wishes to assert an affirmative defense. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that indicate an emergency occurred and the permittee can identify the cause(s) of the emergency. The permitted installation must show that it was operated properly at the time and that during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or requirements in the permit. The notice must contain a description of the emergency, the steps taken to mitigate emissions, and the corrective actions taken.
      ii) Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported as soon as practicable.
iii) Any other deviations identified in the permit as requiring more frequent reporting than the permittee's semiannual report shall be reported on the schedule specified in this permit, and no later than ten days after any exceedance of any applicable rule, regulation, or other restriction.

e) Every report submitted shall be certified by the responsible official, except that, if a report of a deviation must be submitted within ten days after the deviation, the report may be submitted without a certification if the report is resubmitted with an appropriate certification within ten days after that, together with any corrected or supplemental information required concerning the deviation.

f) The permittee may request confidential treatment of information submitted in any report of deviation.

### 10 CSR 10-6.065(6)(C)1.D Risk Management Plan Under Section 112(r)

The permittee shall comply with the requirements of 40 CFR Part 68, Accidental Release Prevention Requirements. If the permittee has more than a threshold quantity of a regulated substance in process, as determined by 40 CFR Section 68.115, the permittee shall submit a Risk Management Plan in accordance with 40 CFR Part 68 no later than the latest of the following dates:

1. June 21, 1999;
2. Three years after the date on which a regulated substance is first listed under 40 CFR Section 68.130; or
3. The date on which a regulated substance is first present above a threshold quantity in a process.

### 10 CSR 10-6.065(6)(C)1.F Severability Clause

In the event of a successful challenge to any part of this permit, all uncontested permit conditions shall continue to be in force. All terms and conditions of this permit remain in effect pending any administrative or judicial challenge to any portion of the permit. If any provision of this permit is invalidated, the permittee shall comply with all other provisions of the permit.

### 10 CSR 10-6.065(6)(C)1.G General Requirements

1. The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.

2. The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

3. The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

4. This permit does not convey any property rights of any sort, nor grant any exclusive privilege.

5. The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the Air Pollution Control Program copies of records required to be kept by the permittee. The
permittee may make a claim of confidentiality for any information or records submitted pursuant to 10 CSR 10-6.065(6)(C)1.

10 CSR 10-6.065(6)(C)1.H Incentive Programs Not Requiring Permit Revisions
No permit revision will be required for any installation changes made under any approved economic incentive, marketable permit, emissions trading, or other similar programs or processes provided for in this permit.

10 CSR 10-6.065(6)(C)1.I Reasonably Anticipated Operating Scenarios
None

10 CSR 10-6.065(6)(C)3 Compliance Requirements

1) Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.

2) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation’s right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
   a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
   b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
   c) Inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
   d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.

3) All progress reports required under an applicable schedule of compliance shall be submitted semiannually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
   a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
   b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.

4) The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by April 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, as well as the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and Part 64 exceedances and excursions must be included in the compliance certifications. The compliance certification shall include the following:
   a) The identification of each term or condition of the permit that is the basis of the certification;
   b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation;
   c) Whether compliance was continuous or intermittent;
d) The method(s) used for determining the compliance status of the installation, both currently and
over the reporting period; and

e) Such other facts as the Air Pollution Control Program will require in order to determine the
compliance status of this installation.

### 10 CSR 10-6.065(6)(C)6 Permit Shield

1) Compliance with the conditions of this permit shall be deemed compliance with all applicable
requirements as of the date that this permit is issued, provided that:

a) The applicable requirements are included and specifically identified in this permit, or

b) The permitting authority, in acting on the permit revision or permit application, determines in
writing that other requirements, as specifically identified in the permit, are not applicable to the
installation, and this permit expressly includes that determination or a concise summary of it.

2) Be aware that there are exceptions to this permit protection. The permit shield does not affect the
following:

a) The provisions of section 303 of the Act or section 643.090, RSMo concerning emergency
orders,

b) Liability for any violation of an applicable requirement which occurred prior to, or was existing
at, the time of permit issuance,

c) The applicable requirements of the acid rain program,

d) The authority of the Environmental Protection Agency and the Air Pollution Control Program of
the Missouri Department of Natural Resources to obtain information, or

e) Any other permit or extra-permit provisions, terms or conditions expressly excluded from the
permit shield provisions.

### 10 CSR 10-6.065(6)(C)7 Emergency Provisions

1) An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7.A shall constitute an affirmative
defense to an enforcement action brought for noncompliance with technology-based emissions
limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate,
through properly signed, contemporaneous operating logs or other relevant evidence, the following:

a) That an emergency or upset occurred and that the permittee can identify the source of the
emergency or upset,

b) That the installation was being operated properly,

c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-
based emissions limitations or requirements in this permit, and

d) That the permittee submitted notice of the emergency to the Air Pollution Control Program
within two working days of the time when emission limitations were exceeded due to the
emergency. This notice must contain a description of the emergency, any steps taken to mitigate
emissions, and any corrective actions taken.

2) Be aware that an emergency or upset shall not include noncompliance caused by improperly
designed equipment, lack of preventative maintenance, careless or improper operation, or operator
error.

### 10 CSR 10-6.065(6)(C)8 Operational Flexibility

An installation that has been issued a Part 70 operating permit is not required to apply for or obtain a
permit revision in order to make any of the changes to the permitted installation described below if the
changes are not Title I modifications, the changes do not cause emissions to exceed emissions allowable
under the permit, and the changes do not result in the emission of any air contaminant not previously
emitted. The permittee shall notify the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, at least seven days in advance of these changes, except as allowed for emergency or upset conditions.

Emissions allowable under the permit means a federally enforceable permit term or condition determined at issuance to be required by an applicable requirement that establishes an emissions limit (including a work practice standard) or a federally enforceable emissions cap that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject.

1) Section 502(b)(10) changes. Changes that, under section 502(b)(10) of the Act, contravene an express permit term may be made without a permit revision, except for changes that would violate applicable requirements of the Act or contravene federally enforceable monitoring (including test methods), record keeping, reporting, or compliance requirements of the permit.
   a) Before making a change under this provision, The permittee shall provide advance written notice to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, describing the changes to be made, the date on which the change will occur, and any changes in emission and any permit terms and conditions that are affected. The permittee shall maintain a copy of the notice with the permit, and the APCP shall place a copy with the permit in the public file. Written notice shall be provided to the EPA and the APCP as above at least seven days before the change is to be made. If less than seven days notice is provided because of a need to respond more quickly to these unanticipated conditions, the permittee shall provide notice to the EPA and the APCP as soon as possible after learning of the need to make the change.
   b) The permit shield shall not apply to these changes.

### 10 CSR 10-6.065(6)(C)9 Off-Permit Changes

1) Except as noted below, the permittee may make any change in its permitted operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Insignificant activities listed in the application, but not otherwise addressed in or prohibited by this permit, shall not be considered to be constrained by this permit for purposes of the off-permit provisions of this section. Off-permit changes shall be subject to the following requirements and restrictions:
   a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; the permittee may not change a permitted installation without a permit revision if this change is subject to any requirements under Title IV of the Act or is a Title I modification;
   b) The permittee must provide written notice of the change to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, no later than the next annual emissions report. This notice shall not be required for changes that are insignificant activities under 10 CSR 10-6.065(6)(B)3. This written notice shall describe each change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change.
   c) The permittee shall keep a record describing all changes made at the installation that result in emissions of a regulated air pollutant subject to an applicable requirement and the emissions resulting from these changes; and
   d) The permit shield shall not apply to these changes.
10 CSR 10-6.020(2)(R)12 Responsible Official

The application utilized in the preparation of this permit was signed by Timothy Curry, Midwest Region Environmental Compliance Manager. Timothy Curry, Midwest Region Environmental Compliance Manager, and James Rooney, Regional Vice President, are listed as Responsible Officials for this facility. If either of these persons terminates employment, or is reassigned different duties such that a different person becomes the responsible person to represent and bind the installation in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Director of the Air Pollution Control Program of the change. Said notification shall be in writing and shall be submitted within 30 days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the installation in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the installation until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

10 CSR 10-6.065(6)(E)6 Reopening-Permit for Cause

This permit may be reopened for cause if:

1) The Missouri Department of Natural Resources (MDNR) receives notice from the Environmental Protection Agency (EPA) that a petition for disapproval of a permit pursuant to 40 CFR § 70.8(d) has been granted, provided that the reopening may be stayed pending judicial review of that determination,

2) MDNR or EPA determines that the permit contains a material mistake or that inaccurate statements were made which resulted in establishing the emissions limitation standards or other terms of the permit,

3) Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if—:
   a) The permit has a remaining term of less than three years;
   b) The effective date of the requirement is later than the date on which the permit is due to expire; or
   c) The additional applicable requirements are implemented in a general permit that is applicable to the installation and the installation receives authorization for coverage under that general permit,

4) The installation is an affected source under the acid rain program and additional requirements (including excess emissions requirements), become applicable to that source, provided that, upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into the permit; or

5) MDNR or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

10 CSR 10-6.065(6)(E)1.C Statement of Basis

This permit is accompanied by a statement setting forth the legal and factual basis for the permit conditions (including references to applicable statutory or regulatory provisions). This Statement of Basis, while referenced by the permit, is not an actual part of the permit.

VI. Attachments

Attachments follow.
Attachment A
10 CSR 10-6.220 Compliance Demonstration
Opacity Emission Observations

This attachment or an equivalent may be used to help meet the recordkeeping requirements of Permit Condition 2.

<table>
<thead>
<tr>
<th>Method 22 (Outdoor) Observation Log</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission Unit</td>
</tr>
<tr>
<td>Observer</td>
</tr>
<tr>
<td>Sky Conditions</td>
</tr>
<tr>
<td>Precipitation</td>
</tr>
<tr>
<td>Wind Direction</td>
</tr>
</tbody>
</table>

Sketch process unit: Indicate the position relative to the source and sun; mark the potential emission points and/or the observing emission points.

<table>
<thead>
<tr>
<th>Observation Clock Time</th>
<th>Observation Period Duration (minute:second)</th>
<th>Accumulative Emission Time (minute:second)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Begin Observation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>End Observation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Attachment B
10 CSR 10-6.220 Compliance Demonstration

This attachment or an equivalent may be used to help meet the recordkeeping requirements of Permit Condition 2

<table>
<thead>
<tr>
<th>Date</th>
<th>Method 22 Test Observer</th>
<th>Visible Emissions (yes/no)</th>
<th>Visible Emissions Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
### Attachment C

**Inspection/Maintenance/Repair/Malfunction Log**

**Emission Unit # ____________________________**

<table>
<thead>
<tr>
<th>Date/Time</th>
<th>Inspection/Maintenance Activities</th>
<th>Malfunction Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Malfunction</td>
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<tr>
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</tr>
</tbody>
</table>

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*Advanced Disposal Services Maple Hill Landfill, Inc.*

*Part 70 Operating Permit*

*Installation ID: 121-0027*

*Project No. 2012-08-020*
## Attachment D
### Waste Shipment Record
40 CFR Part 61, Subpart M

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Work site name and mailing address</td>
<td>Owner's name</td>
<td>Owner's telephone No.</td>
</tr>
<tr>
<td>2. Operator's name and address</td>
<td></td>
<td>Operator's telephone No.</td>
</tr>
<tr>
<td>3. Waste disposal site (MDS) name, mailing address, and physical site location</td>
<td></td>
<td>MDS phone Number</td>
</tr>
<tr>
<td>4. Name and address of responsible agency</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Description of materials</td>
<td>6. Container No.</td>
<td>Type</td>
</tr>
<tr>
<td>7. Total quantity m$^3$ (yd$^3$)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Special handling instructions and additional information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printed/typed name and title</td>
<td>Signature</td>
<td>Month Day Year</td>
</tr>
<tr>
<td>10. Transporter 1 (Acknowledgment of receipt of materials)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printed/typed name and title</td>
<td>Signature</td>
<td>Month Day Year</td>
</tr>
<tr>
<td>Address and telephone No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Transporter 2 (Acknowledgment of receipt of materials)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printed/typed name and title</td>
<td>Signature</td>
<td>Month Day Year</td>
</tr>
<tr>
<td>Address and telephone No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. Discrepancy indication space</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13. Waste disposal site owner or operator: Certification of asbestos materials covered by this manifest excerpt as noted in item 12.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printed/typed name and title</td>
<td>Signature</td>
<td>Month Day Year</td>
</tr>
</tbody>
</table>

(continued)
INSTRUCTIONS

Waste Generator Section  (items 1-9)

1. Enter the name of the facility at which asbestos waste is generated and the address where the facility is located. In the appropriate spaces, also enter the name of the owner of the facility and the owner's phone number.

2. If a demolition or renovation, enter the name and address of the company and authorized agent responsible for performing the asbestos removal. In the appropriate spaces, also enter the phone number of the operator.

3. Enter the name, address, and physical site location of the waste disposal site (WDS) that will be receiving the asbestos materials. In the appropriate spaces, also enter the phone number of the WDS. Enter "on-site" if the waste will be disposed of on the generator's property.

4. Provide the name and address of the local, state, or EPA regional office responsible for administering the asbestos NESHAP program.

5. Indicate the types of asbestos waste materials generated. If from a demolition or renovation, indicate the amount of asbestos that is:
   - Friable asbestos material
   - Nonfriable asbestos material

6. Enter the number of containers used to transport the asbestos materials listed in item 5. Also enter one of the following container codes used in transporting each type of asbestos material (specify any other type of container used if not listed below)

   DN  - Metal drums, barrels
   DP  - Plastic drums, barrels
   BA  - 6 mil plastic bags or wrapping

7. Enter the quantities of each type of asbestos material removed in units of cubic meters (cubic yards).

8. Use this space to indicate special transportation, treatment, storage, or disposal or Bill of Lading information. If an alternate waste disposal site is designated, note it here. Emergency response telephone numbers or similar information may be included here.

9. The authorized agent of the waste generator must read and then sign and date this certification. The date is the date of receipt by transporter.

Note: The waste generator must retain a copy of this form.
Transporter Section  (Items 10 & 11)

10. & 11. Enter name, address, and telephone number of each transporter used, if applicable. Print or type the full name and title of person accepting responsibility and acknowledging receipt of materials as listed on this waste shipment record for transport. Enter date of receipt and signature.

Note: The transporter must retain a copy of this form.

Disposal Site Section  (Items 12 & 13)

12 The authorized representative of the WDS must note in this space any discrepancy between waste described on this manifest and waste actually received as well as any improperly enclosed or contained waste. Any rejected materials should be listed and destination of those materials provided. A site that converts asbestos-containing waste material to non-asbestos material is considered a WDS.

13 The signature (by hand) of the authorized WDS agent indicates acceptance and agreement with statements on this manifest except as noted in item 12. The date is the date of signature and receipt of shipment.

Note: The WDS must retain a completed copy of this form. The WDS must also send a completed copy to the operator listed in item 2.
## Attachment E

Uncontrolled NMOC Emission Rate Calculations

### Year: 2014

\[
M_{\text{NMOC}} = \text{Mass emission rate of NMOC, Mg/year [Calculated]}
\]

\[
M_{\text{NMOC}} = 2L_0 R (e^{kc} - e^{kt})(C_{\text{NMOC}})(3.6 \times 10^{-9})
\]

<table>
<thead>
<tr>
<th>Input Data</th>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>170</td>
<td>(L_0)</td>
<td>Methane generation rate potential, (\text{m}^3/\text{Mg} ) [MO CSR]</td>
</tr>
<tr>
<td>136,027</td>
<td>(R)</td>
<td>Average annual acceptance rate, Mg/year</td>
</tr>
<tr>
<td>0.05</td>
<td>(k)</td>
<td>Methane generation rate constant, years(^{-1}) [MO CSR]</td>
</tr>
<tr>
<td>0</td>
<td>(c)</td>
<td>Time since closure, years; if active (c=0) and (e^{kc}=1)</td>
</tr>
<tr>
<td>38</td>
<td>(t)</td>
<td>Age of landfill, years (opened in 1976)</td>
</tr>
<tr>
<td>98.3</td>
<td>(C_{\text{NMOC}})</td>
<td>Concentration of NMOC, ppmv as hexane [lab data]</td>
</tr>
<tr>
<td>3.60E-09</td>
<td>(3.6 \times 10^{-9})</td>
<td>Conversion factor</td>
</tr>
</tbody>
</table>

\[
M_{\text{NMOC}} = 13.918721
\]

### Year: 2015

\[
M_{\text{NMOC}} = \text{Mass emission rate of NMOC, Mg/year [Calculated]}
\]

\[
M_{\text{NMOC}} = 2L_0 R (e^{kc} - e^{kt})(C_{\text{NMOC}})(3.6 \times 10^{-9})
\]

<table>
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<td>Time since closure, years; if active (c=0) and (e^{kc}=1)</td>
</tr>
<tr>
<td>39</td>
<td>(t)</td>
<td>Age of landfill, years (opened in 1976)</td>
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<tr>
<td>98.3</td>
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<tr>
<td>3.60E-09</td>
<td>(3.6 \times 10^{-9})</td>
<td>Conversion factor</td>
</tr>
</tbody>
</table>

\[
M_{\text{NMOC}} = 14.038108
\]
### Year: 2016

\[ M_{\text{NMOC}} = \text{Mass emission rate of NMOC, Mg/year [Calculated]} \]

\[ M_{\text{NMOC}} = 2L_0R(e^{kc} - e^{kt})(C_{\text{NMOC}})(3.6 \times 10^{-9}) \]

\[ M_{\text{NMOC}} = 14.151673 \]

<table>
<thead>
<tr>
<th>Input Data</th>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>170</td>
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<td>Methane generation rate potential, m(^3)/Mg [MO CSR]</td>
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<td>( R )</td>
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<tr>
<td>0.05</td>
<td>( k )</td>
<td>Methane generation rate constant, years(^{-1}) [MO CSR]</td>
</tr>
<tr>
<td>0</td>
<td>( c )</td>
<td>Time since closure, years; if active ( c = 0 ) and ( e^{kc} = 1 )</td>
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<td>40</td>
<td>( t )</td>
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<tr>
<td>98.3</td>
<td>( C_{\text{NMOC}} )</td>
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<td>3.60E-09</td>
<td>( 3.6 \times 10^{-9} )</td>
<td>Conversion factor</td>
</tr>
</tbody>
</table>

### Year: 2017

\[ M_{\text{NMOC}} = \text{Mass emission rate of NMOC, Mg/year [Calculated]} \]

\[ M_{\text{NMOC}} = 2L_0R(e^{kc} - e^{kt})(C_{\text{NMOC}})(3.6 \times 10^{-9}) \]

\[ M_{\text{NMOC}} = 14.259699 \]

<table>
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<td>( k )</td>
<td>Methane generation rate constant, years(^{-1}) [MO CSR]</td>
</tr>
<tr>
<td>0</td>
<td>( c )</td>
<td>Time since closure, years; if active ( c = 0 ) and ( e^{kc} = 1 )</td>
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<tr>
<td>41</td>
<td>( t )</td>
<td>Age of landfill, years (opened in 1976)</td>
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<td>( C_{\text{NMOC}} )</td>
<td>Concentration of NMOC, ppmv as hexane [lab data]</td>
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<td>3.60E-09</td>
<td>( 3.6 \times 10^{-9} )</td>
<td>Conversion factor</td>
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Year: 2018

\[ M_{\text{NMOC}} = \text{Mass emission rate of NMOC, Mg/year [Calculated]} \]
\[ M_{\text{NMOC}} = 2L_0R(e^{kc} - e^{kt})(C_{\text{NMOC}})(3.6 \times 10^{-9}) \]

\[ M_{\text{NMOC}} = 14.362457 \]

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<td>0.05</td>
<td>( k ) Methane generation rate constant, years(^{-1} ) [MO CSR]</td>
</tr>
<tr>
<td>0</td>
<td>( c ) time since closure, years; if active ( c=0 ) and ( e^{kc}=1 )</td>
</tr>
<tr>
<td>42</td>
<td>( t ) Age of landfill, years (opened in 1976)</td>
</tr>
<tr>
<td>98.3</td>
<td>( C_{\text{NMOC}} ) Concentration of NMOC, ppmv as hexane [lab data]</td>
</tr>
<tr>
<td>3.60E-09</td>
<td>3.6\times10^{-9} Conversion factor</td>
</tr>
</tbody>
</table>

Year: 2019

\[ M_{\text{NMOC}} = \text{Mass emission rate of NMOC, Mg/year [Calculated]} \]
\[ M_{\text{NMOC}} = 2L_0R(e^{kc} - e^{kt})(C_{\text{NMOC}})(3.6 \times 10^{-9}) \]

\[ M_{\text{NMOC}} = 14.460203 \]

<table>
<thead>
<tr>
<th>Input Data</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>170</td>
<td>( L_0 ) Methane generation rate potential, ( m^3/Mg ) [MO CSR]</td>
</tr>
<tr>
<td>136,027</td>
<td>( R ) Average annual acceptance rate, Mg/year</td>
</tr>
<tr>
<td>0.05</td>
<td>( k ) Methane generation rate constant, years(^{-1} ) [MO CSR]</td>
</tr>
<tr>
<td>0</td>
<td>( c ) time since closure, years; if active ( c=0 ) and ( e^{kc}=1 )</td>
</tr>
<tr>
<td>43</td>
<td>( t ) Age of landfill, years (opened in 1976)</td>
</tr>
<tr>
<td>98.3</td>
<td>( C_{\text{NMOC}} ) Concentration of NMOC, ppmv as hexane [lab data]</td>
</tr>
<tr>
<td>3.60E-09</td>
<td>3.6\times10^{-9} Conversion factor</td>
</tr>
</tbody>
</table>
Year: 2020

$M_{NMOC} = \text{Mass emission rate of NMOC, Mg/year [Calculated]}$

$M_{NMOC} = 14.553182$

<table>
<thead>
<tr>
<th>Input Data</th>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>170</td>
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</tr>
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</tr>
<tr>
<td>3.60E-09</td>
<td>$3.6 \times 10^{-9}$</td>
<td>Conversion factor</td>
</tr>
</tbody>
</table>

Summary of Uncontrolled NMOC Emissions

<table>
<thead>
<tr>
<th>Year</th>
<th>Emissions* (Mg/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>13.92</td>
</tr>
<tr>
<td>2015</td>
<td>14.04</td>
</tr>
<tr>
<td>2016</td>
<td>14.15</td>
</tr>
<tr>
<td>2017</td>
<td>14.26</td>
</tr>
<tr>
<td>2018</td>
<td>14.36</td>
</tr>
<tr>
<td>2019</td>
<td>14.46</td>
</tr>
<tr>
<td>2020</td>
<td>14.55</td>
</tr>
</tbody>
</table>

*Based on estimated waste acceptance rates.
STATEMENT OF BASIS

Permit Reference Documents
These documents were relied upon in the preparation of the operating permit. Because they are not incorporated by reference, they are not an official part of the operating permit.

1) Part 70 Operating Permit Application, received August 06, 2012;
2) Part 70 Operating Permit OP2007-051, issued October 4, 2007;
3) Construction Permit #2000-04-033, issued July 06, 2000;
4) 2012 Emissions Inventory Questionnaire, received March 29, 2013; and

Changes since Last Operating Permit
EP-03 Leachate Tank
Previously, this emission point was listed as a 110,000-gallon leachate tank. In 2009, the 10,000-gallon leachate tank associated with Phase 3 was removed and replaced with a lift station and force main that automatically pumps the Phase 3 leachate to the 100,000-leachate tank.

40 CFR Part 63 Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills
Previously, this subpart was included in the operating permit. Upon further discussion, the Air Pollution Control Program has concluded that the previous decision to list the phase 3 and phase 4 expansions as modifications was incorrect. The two expansions were included in the original plan for the landfill, and therefore considered not to be expansions. With this decision, this rule is no longer applicable to the installation and 10 CSR 10-6.310 is applicable.

Applicable Requirements Included in the Operating Permit but Not in the Application or Previous Operating Permits
In the operating permit application, the installation indicated they were not subject to the following regulation(s). However, in the review of the application, the agency has determined that the installation is subject to the following regulation(s) for the reasons stated.

10 CSR 10-6.310, Restriction of Emissions from Municipal Solid Waste Landfills
This rule applies to each MSW landfill for which construction, reconstruction, or modification was commenced before May 30, 1991, and has accepted waste at any time since November 08, 1987, or has additional design capacity available for future waste deposition. Landfills, for which construction, reconstruction, or modification was commenced on May 30, 1991, or after, are covered under the EPA’s New Source Performance Standard for Municipal Solid Waste Landfills.

The phase 3 expansion (30 foot vertical) and phase 4 expansion (102 acre horizontal) have been determined not to be considered modifications, since they were included in the initial 38.2 million m³ design capacity. Therefore, no modifications have been done to the installation and the landfill is considered existing (pre-May 30, 1991).

Tier 1 calculation was completed for MNMOC, and was found to be above the 50 megagrams per year limit. In order to maintain compliance the landfill determines a site-specific C_{NMOC} and uses this value to recalculate the MNMOC according to Tier 2 compliance strategies. The Tier 2 compliance
demonstrations are documented in Attachment E. The data and Testing are from lab data submitted April 11, 2014.

Other Air Regulations Determined Not to Apply to the Operating Permit
The Air Pollution Control Program (APCP) has determined the following requirements to not be applicable to this installation at this time for the reasons stated.

40 CFR Part 60 Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills
Part 60 Subpart WWW has been determined not to be applicable to the installation. The previous determination has the thirty (30) foot vertical expansion (phase 3) in July of 1999 (Solid waste permit #0112106) and the 102 acre horizontal expansion (phase 4) in May of 1999 (Solid waste permit #0112107) as modifications to the installation, but since the initial plan for the landfill included all four phases this is not a modification. Therefore, the installation has not commenced construction, reconstruction, or modification on or after May 30, 1991 and this rule does not apply.

10 CSR 10-6.260, Restriction of Emission of Sulfur Compounds
This rule applies to the landfill’s flare. However, as the landfill gas contains 50% methane and 50% carbon dioxide, sulfur compound emissions from the combustion of the landfill gas will always be expected to be lower than the allowable limit of this rule. Therefore, this regulation is not included in this operating permit.

10 CSR 10-6.400, Restriction of Emission of Particulate Matter from Industrial Processes
This regulation defines process weight to “exclude liquids and gases used solely as fuels and air introduced for purposes of combustion” under 10 CSR 10-6.400(2)(A). For the flare at this installation, the throughputs only consist of landfill gas. Therefore, there are no applicable throughputs for the flare and the other emission sources at this installation have no or insignificant particulate emissions. Therefore, no emission sources at this installation are considered to be subject to this regulation and this regulation is not included in the operating permit.

Construction Permit Revisions
The following revisions were made to construction permits for this installation:
None

New Source Performance Standards (NSPS) Applicability
The following tanks are located at the installation:
• One 100,000-Gallon Leachate Tank
• One 12,000-Gallon Diesel Tank
• One 1,000-Gallon used Oil Tank
• One 600-Gallon Diesel Tank
• One 275-Gallon Motor Oil Tank
• One 275-Gallon Hydraulic Oil Tank
Per 40 CFR 60.110b(a), the affected facility is each storage vessel with a capacity greater than or equal to 75 m³ (i.e. 19,812 Gallons) used to store volatile organic liquids for which construction, reconstruction, or modification is commenced after July 23, 1984. Hence, this rule does not apply to the facility tanks since their capacity is less than 75 m³ (except for the 100,000-Gallon Leachate Tank).

40 CFR 60.110b(b) states that this subpart does not apply to storage vessels with a capacity greater than or equal to 151 m³ (i.e. 39,888 Gallons) storing a liquid with a maximum true vapor pressure of less than 3.5 kilopascals. The landfill leachate consists essentially of water with less than 1% organics. The minor amount of Volatile Organic Compounds (VOC) constituents in the leachate are not expected to have an equilibrium partial pressure of greater than or equal to 3.5 kPa. Hence, 40 CFR 60, Subpart Kb is not applicable to the 100,000 Gallon Leachate Tank.

40 CFR Part 60, Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills
The provisions of this subpart apply to each municipal solid waste landfill that commenced construction, reconstruction, or modification on or after May 30, 1991. The installation is not subject to 40 CFR Part 60, Subpart WWW as it has not been modified on or after May 30, 1991.

Based on the “Uncontrolled NMOC Emission Rate Calculations” submitted by the permittee (see Appendix F), the current and year 2020 NMOC emissions are below 50 megagrams (Mg) per year. Hence, the requirements for gas collection and control system of NSPS, Subpart WWW do not apply to this installation yet. The installation will continue to recalculate the NMOC emission rate annually and submit the NMOC rate calculations once every five years to the APCP until such time the calculated NMOC emission rate is equal to or greater than 50 Mg per year, or the landfill is closed.

The installation has voluntarily installed a gas collection and control (flare) system to manage gas generation and migration. Currently the flare is subject to 10 CSR 10-6.220 opacity limit of 20%. When and if the landfill exceeds the 50 Mg NMOC limit, the flare will be subject to 40 CFR 60.18 zero visible emissions limit.

Maximum Achievable Control Technology (MACT) Applicability
Per 40 CFR 63.1935, this rule applies to a MSW landfill that has accepted waste since November 8, 1987, or has additional capacity for waste deposition and meets any one of the following three criteria:
- MSW landfill is a major source of hazardous air pollutants (HAPs)
- MSW landfill is co-located with a major source of HAPs
- MSW landfill is an area source landfill that has design capacity greater than or equal to 2.5 million Mg and 2.5 million cubic meters, and has the estimated uncontrolled emissions equal to or greater than 50 Mg per year NMOC as calculated according to 40 CFR 60.754(a).

The installation is not a major source of HAPs nor is it co-located with a major source of HAPs. Actual HAP emissions reported for the 2011 EIQ was 0.60 tons. Landfill design capacity exceeds 2.5 million Mg, but the estimated uncontrolled emissions of NMOC are less than 50 Mg per year as calculated per 40 CFR 60.754(a). (See Attachment E “Uncontrolled NMOC Emission Rate
Calculations”). Hence, this rule does not currently apply to this facility. Applicability will be re-evaluated at the time that the NMOC emissions exceed 50 Mg/yr.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability
40 CFR Part 61, Subpart M, National Emission Standards for Asbestos
Advanced Disposal Services – Maple Hill Landfill is approved to accept asbestos containing waste and is therefore subject to 40 CFR Part 61 Subpart M.

Compliance Assurance Monitoring (CAM) Applicability
40 CFR Part 64, Compliance Assurance Monitoring (CAM)
The CAM rule applies to each pollutant specific emission unit that:
• Is subject to an emission limitation or standard, and
• Uses a control device to achieve compliance, and
• Has pre-control emissions that exceed or are equivalent to the major source threshold.
40 CFR Part 64 is not applicable because none of the pollutant-specific emission units uses a control device to achieve compliance with a relevant standard.

Updated Potential to Emit for the Installation

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Potential to Emit w/Flare (tons/yr) (^1)</th>
<th>Potential to Emit w/o Flare (tons/yr) (^1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>295.65</td>
<td>--</td>
</tr>
<tr>
<td>CO(_2)e</td>
<td>148,787</td>
<td>233,870</td>
</tr>
<tr>
<td>HAP</td>
<td>8.31</td>
<td>32.23</td>
</tr>
<tr>
<td>NO(_x)</td>
<td>15.77</td>
<td>--</td>
</tr>
<tr>
<td>PM(_{10})</td>
<td>6.7</td>
<td>--</td>
</tr>
<tr>
<td>PM(_{2.5})</td>
<td>6.7</td>
<td>--</td>
</tr>
<tr>
<td>SO(_x)</td>
<td>5.5</td>
<td>--</td>
</tr>
<tr>
<td>VOC</td>
<td>2.54</td>
<td>9.7</td>
</tr>
</tbody>
</table>

\(^1\) Each emission unit was evaluated at 8,760 hours of uncontrolled annual operation unless otherwise noted.
\(^2\) \(C_{\text{NMOC}}=98.3\) ppmv as hexane used for calculations.

Other Regulatory Determinations
Haul Road Fugitive Emissions:
10 CSR 10-6.170, Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin.
The regulation applies to fugitive particulate emissions, with the intent of restricting and preventing fugitive emissions from traveling off property. The installation is required to meet the conditions stated in the core permit requirements. Fugitive emissions from haul roads would be regulated under this regulation.

Other Regulations Not Cited in the Operating Permit or the Above Statement of Basis
Any regulation which is not specifically listed in either the Operating Permit or in the above Statement of Basis does not appear, based on this review, to be an applicable requirement for this installation for one or more of the following reasons:

1) The specific pollutant regulated by that rule is not emitted by the installation;
2) The installation is not in the source category regulated by that rule;
3) The installation is not in the county or specific area that is regulated under the authority of that rule;
4) The installation does not contain the type of emission unit which is regulated by that rule;
5) The rule is only for administrative purposes.

Should a later determination conclude that the installation is subject to one or more of the regulations cited in this Statement of Basis or other regulations which were not cited, the installation shall determine and demonstrate, to the Air Pollution Control Program's satisfaction, the installation's compliance with that regulation(s). If the installation is not in compliance with a regulation which was not previously cited, the installation shall submit to the Air Pollution Control Program a schedule for achieving compliance for that regulation(s).

Prepared by:

David Buttig
Environmental Engineer
Dear Sir/Madam:

Enclosed with this letter is your Part 70 operating permit. Please review this document carefully. Operation of your installation in accordance with the rules and regulations cited in this document is necessary for continued compliance. It is very important that you read and understand the requirements contained in your permit.

You may appeal this permit to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.078.16 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you have any questions or need additional information regarding this permit, please contact the Air Pollution Control Program (APCP) at (573) 751-4817, or you may write to the Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Michael J. Stansfield, P.E.
Operating Permit Unit Chief

MJS:DBClericalFirstInitial

Enclosures

c: Robert Cheever, US EPA Region VII
Northeast Regional Office Regional Office
PAMS File: 2012-08-020