

JEFFERSON COUNTY DEPARTMENT OF HEALTH

AIR POLLUTION PROGRAM

TITLE V OPERATING PERMIT

Permittee: **Eastern Area Landfill, City of Birmingham**
Location: **2787 Alton Road**
Birmingham, Alabama 35210

Permit No: **4-07-0373-04**

Issuance Date: **February 13, 2018**

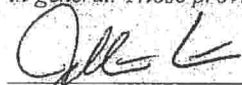
Expiration Date: **February 12, 2023**

Nature of Business: **Municipal Solid Waste Landfill**

Emissions Unit No.	Emissions Unit Description
001	Municipal Solid Waste Landfill – 4,053,982 Megagrams Design Capacity — and Subject to ADEM Solid Waste Disposal Facility Permit 37-12

This Permit is issued pursuant to and is conditioned upon the compliance with the provisions of the Jefferson County Board of Health Air Pollution Control Rules and Regulations, Section 18 of the Alabama Air Pollution Control Act of 1971, Act No. 769 (Regular Session, 1971), Section 22-28-16 of the Alabama Air Pollution Control Act as amended, Orders of the Jefferson County Board of Health, Orders of the Director of the Alabama Department of Environmental Management, and any applicable local, state or federal Court Order. This Permit is subject to the accuracy of all information submitted relating to the permit application and to the conditions appended hereto. It is valid from the date of issuance until the expiration date and shall be posted or kept under file at the source location described above and shall be made readily available for inspection at any reasonable time to any and all persons who may request to see it. This Permit is not transferable.

Pursuant to the Clean Air Act Amendments of 1990 (CAAA), all conditions of this permit are Federally enforceable by EPA, The Jefferson County Board of Health and citizens in general. Those provisions which are not required by the CAAA are considered to be Jefferson County provisions and are not Federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.



Jonathan Stanton, Director
Environmental Health Services

Approved: **Mark Wilson, M.D.**
Health Officer



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GENERAL PERMIT CONDITIONS

In addition to compliance with Alabama Air Pollution Control Act Number 769 (Regular Session, 1971) and Act Number 612 (Regular Session, 1982) and with all applicable Air Pollution Control Rules and Regulations, the conditions which are listed below are hereby contained in and made a part of this permit. For each citation to a Jefferson County Board of Health regulation provided in connection with a permit condition (other than for those permit conditions that are specifically identified in the permit as not being federally enforceable), Appendix A to this permit identifies the corresponding ADEM regulation that has been approved by EPA as part of the Clean Air Act implementation plan for Alabama (identified in 40 CFR 52, Subpart B). The corresponding ADEM regulations, together with the cited Jefferson County Board of Health regulations, serve as the origin and authority for the associated permit term or condition.

No.	Federally Enforceable General Permit Conditions	Regulations
1.	<p><u>Definitions</u></p> <p>For the purposes of this Major Source Operating Permit, the following terms will have the meanings ascribed to in this permit:</p> <p>"40 CFR 60" shall be an acronym for Part 60 of Title 40 of the <u>Code of Federal Regulations</u>, as the same may be amended or revised.</p> <p>"40 CFR 61" shall be an acronym for Part 61 of Title 40 of the <u>Code of Federal Regulations</u>, as the same may be amended or revised.</p> <p>"40 CFR 63" shall be an acronym for Part 63 of Title 40 of the <u>Code of Federal Regulations</u>, as the same may be amended or revised.</p> <p>"40 CFR 68" shall be an acronym for Part 68 of Title 40 of the <u>Code of Federal Regulations</u>, as the same may be amended or revised.</p> <p>"40 CFR 82" shall be an acronym for Part 82 of Title 40 of the <u>Code of Federal Regulations</u>, as the same may be amended or revised.</p> <p>"ACT" shall mean the Clean Air Act, as amended, 42 U.S.C. 7401, et seq.</p> <p>"Active Collection System" shall mean a gas collection system that uses gas mover equipment.</p> <p>"Active Landfill" shall mean a landfill in which solid waste is being placed or a landfill that is planned to accept waste in the future.</p> <p>"ADEM" shall mean the Alabama Department of Environmental Management.</p> <p>"ADEM 335-3-19" means ADEM Air Division Administrative Code Chapter 335-3-19.</p> <p>"Asbestos containing waste material" shall mean mill tailing or any waste that contains commercial asbestos and is generated by a source that is subject to 40 CFR 61, Subpart M.</p> <p>"Bioreactor" means a portion of a municipal solid waste landfill where any liquid other than leachate (leachate includes landfill gas condensate) is added in a controlled fashion into the waste mass (with or without leachate recirculation) to</p>	<p>1.3 ADEM, 335-3-19-.01 40 CFR 51 40 CFR 60 40 CFR 61 40 CFR 63 40 CFR 68 40 CFR 82 40 CFR 98</p>

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	<p>reach a minimum average moisture content of at least 40% by weight to accelerate or enhance the anaerobic (without oxygen) biodegradation of waste. "Carbon dioxide equivalent or CO₂e" means the number of metric tons of CO₂ emissions with the same global warming potential as one metric ton of another greenhouse gas, and is calculated using Equation A-1 of 40 CFR 98.</p> <p>"Closed Landfill" means a landfill in which solid waste is no longer being placed, and in which no additional solid wastes will be placed without first filing a notification of modification as prescribed under 40 CFR 60.7(a)(4). Once a notification of modification has been filed, and additional solid waste has been placed in the landfill, the landfill is no longer closed.</p> <p>"Closure" means that point in time when a landfill becomes a closed landfill.</p> <p>"Commercial Solid Waste" means all types of solid waste generated by stores, offices, restaurants, warehouses and other nonmanufacturing activities, excluding residential and industrial wastes.</p> <p>"Controlled Landfill" means any landfill at which collection and control systems are required under 40 CFR 60, Subpart WWW or ADEM 335-3-19 as a result of the nonmethane organic compounds emission (NMOC) rate. The landfill is considered controlled at the time a collection and control system design plan is submitted in compliance with 40 CFR 60.752(b)(2)(i) or ADEM 335-3-19-.03(1)(d)(2)(i).</p> <p>"Department" shall mean the Jefferson County Department of Health.</p> <p>"Design capacity" means the maximum amount of solid waste a landfill can accept, as indicated in terms of volume or mass in the most recent permit issued by the Department, plus any in-place waste not accounted for in the most recent permit. If the owner or operator chooses to convert the design capacity from volume to mass or from mass to volume to demonstrate its design capacity is less than 2.5 million megagrams or 2.5 million cubic meters, the calculation must include a site specific density, which must be recalculated annually.</p> <p>"Deviation" means any instance in which the permittee fails to meet any requirement or obligation established by regulation, including but not limited to any emission limitation, operating limit, work practice standard, or any permit term or condition.</p> <p>"Disposal facility" means all contiguous land and structures, other appurtenances, and improvements on the land used for the disposal of solid waste.</p> <p>"Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God. These are situations that require immediate corrective actions(s) to restore normal operation, and that cause the facility to exceed a technology based emission limitation set by the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.</p> <p>"Emission rate cutoff" means the threshold annual emission rate to which a landfill compares its estimated emission rate to determine if control under the applicable regulation is required.</p>	

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	<p>"Emissions unit" means any part or activity of a stationary source that emits or has the potential to emit any regulated air pollutant or any pollutant listed under §112(b) of the Act.</p> <p>"EPA" means the U.S. Environmental Protection Agency.</p> <p>"Fugitive emissions" means any pollutant released to the atmosphere that is not discharged through a system of equipment that is specifically designed to capture pollutants at the source, convey them through ductwork, and exhaust them using forced ventilation. Fugitive emissions include pollutants released to the atmosphere through windows, doors, vents, or other building openings. Fugitive emissions also include pollutants released to the atmosphere through other general building ventilation or exhaust systems not specifically designed to capture pollutants at the source.</p> <p>"GHG" shall be an acronym for greenhouse gases as listed in table A-1 of 40 CFR 98.</p> <p>"HAP" shall be an acronym for Hazardous Air Pollutant as listed in Appendix D of the Rules and Regulations.</p> <p>"Household waste" means any solid waste including garbage and trash derived from households (including, but not limited to, single and multiple residences, hotels and motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds, and day-use recreation areas). Household waste does not include fully segregated yard waste. Segregated yard waste means vegetative matter resulting exclusively from the cutting of grass, the pruning and/or removal of bushes, shrubs, and trees, the weeding of gardens, and other landscaping maintenance activities. Household waste does not include construction, renovation, or demolition wastes, even if originating from a household.</p> <p>"Industrial solid waste" means solid waste generated by manufacturing or industrial processes that is not a hazardous waste regulated under Subtitle C of the Resource Conservation and Recovery Act, 40 CFR 264 and 265. Such waste may include, but is not limited to, waste resulting from the following manufacturing processes: electric power generation; fertilizer/agricultural chemicals; food and related products/by-products; inorganic chemicals; iron and steel manufacturing; leather and leather products; nonferrous metals manufacturing/foundries; organic chemicals; plastics and resins manufacturing; pulp and paper industry; rubber and miscellaneous plastic products; stone, glass, clay, and concrete products; textile manufacturing; transportation equipment; and water treatment. This term does not include fly ash waste, bottom ash waste, boiler slag waste, or flue gas emission control waste which result from the combustion of coal or other fossil fuels at electric or steam generating plants. Additionally, this term does not include mining waste or oil and gas wastes, or small quantity generator waste as defined in ADEM 335-14-2-.01(5). Uncontaminated concrete, soil, brick, rock, and similar materials are excluded from this definition.</p> <p>"Landfill" means an area of land or an excavation in which wastes are placed for permanent disposal, and that is not a land application unit, surface impoundment, injection well, or waste pile as those terms are defined under ADEM 335-13-1-.03 and 40 CFR §257.2.</p>	

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	<p>"Lateral expansion or Vertical expansion" means a horizontal or vertical expansion of the waste boundaries of an existing MSW landfill. An expansion is not a modification unless it results in an increase in the design capacity of the landfill.</p> <p>"Potential Major Source" means any major source as defined in Part 18.1 of the Rules and Regulations whose actual emissions are less than the major source thresholds.</p> <p>"Responsible official" means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and the delegation of authority to such representatives is approved in advance by the Department.</p> <p>"Rules and Regulations" shall mean the Jefferson County Board of Health Air Pollution Control Rules and Regulations.</p> <p>"Sludge" means any nonhazardous solid, semisolid, or liquid waste generated from a municipal, commercial, or industrial wastewater treatment plant, water supply treatment plant, or air pollution control facility, exclusive of the treated effluent from a wastewater treatment plant.</p> <p>"Solid waste" means any garbage or rubbish, construction/demolition debris, ash, sludge from a wastewater treatment plant, water supply treatment plant, or air pollution control facility and other discarded material, including solid, liquid, semisolid, or contained gaseous material resulting from industrial, commercial, mining, and agricultural operations, and from community activities or materials intended for or capable of recycling, but which have not been diverted or removed from the solid waste stream. The term "solid waste" does not include recovered material, solid or dissolved material in domestic sewage, or solid or dissolved materials in irrigation return flows or industrial discharges that are point sources subject to National Pollutant Discharge permits under the Federal Water Pollution Control Act 33 U.S.C. 1342, or source, special nuclear, or by-product material as defined by the Atomic Energy Act of 1954, (42 U.S.C. 2011 et seq.). Also excluded from this definition are wastes from silvicultural operations, land application of crop residues, animal residues, animal manure and ash resulting exclusively from the combustion of fossil fuels or wood during normal agricultural operations or mining refuse as defined and regulated pursuant to the Alabama Mining Act.</p> <p>"Source" shall mean any building, structure, facility, installation, article, machine, equipment, device, or other contrivance which emits or may emit any air contaminant. Any activity which utilizes abrasives or chemicals for cleaning or any other purpose (such as cleaning the exterior of buildings) which emits air contaminants shall be considered a source.</p> <p>"Stationary Source" means any building, structure, facility or installation that emits or may emit any regulated pollutant as defined in Part 18.1 of the Rules and Regulations or any pollutant listed in Appendix D of the Rules and Regulations.</p> <p>"Title V Operating Permit" means any permit issued pursuant to Chapter 18 of the Rules and Regulations.</p>	

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	<p>"VOC" shall be an acronym for volatile organic compound, which shall mean any compound of carbon (excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate and any other compound listed as excluded at 40 CFR 51.100(s)(1)) or Part 1.3 of the Rules and Regulations which participates in atmospheric photochemical reactions.</p>	
2	<p><u>Applicability</u></p> <p>The Major Source, Municipal Solid Waste Landfill, permitted herein shall include all of the equipment and operations of the landfill, including but not limited to storage tanks, vehicles, roads, parking areas and solid waste transfer and disposal. The facility is subject to the new source review requirements of Chapter 2 and to the visible emissions and fugitive emissions restrictions of Chapter 6 of the Rules and Regulations. The facility is subject to the operating permit emissions fees of Chapter 16 and to the major source operating permit requirements of Chapter 18 of the Rules and Regulations. The landfill was modified after May 30, 1991, and is subject to the requirements of 40 CFR 60.750, Subpart WWW and ADEM Chapter 335-3-19. The landfill also is potentially subject to 40 CFR 61, Subpart M, 40 CFR 63, Subpart AAAA. The landfill is subject to the applicable parts of the New Source Performance Standards under 40 CFR 60, Subpart A.</p>	<p>Chapter 1 Chapter 2 Chapter 6 Chapter 16 Chapter 18 40 CFR 60 40 CFR 61 40 CFR 63 ADEM</p>
3	<p><u>Basis for Permit</u></p> <p>This Operating Permit is issued based on provisions contained in all existing Jefferson County Board of Health Air Pollution Control Rules and Regulations (hereinafter called Rules and Regulations in this permit). In the event amendments, revisions or additions are made to these Rules and Regulations, it shall be the responsibility of the permit holder (hereinafter called the permittee in this permit) to comply with such new Rules and Regulations. Additions and revisions to the conditions in this Operating Permit will be made by the Jefferson County Department of Health (hereinafter called the Department), if necessary, to assure that the Rules and Regulations are not violated.</p>	<p>AL Act 769 AL Act 612</p>
4	<p><u>Compliance With Existing and Future Regulations</u></p> <p>A. The permittee shall comply with all conditions of the Rules and Regulations.</p> <p>B. The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.</p> <p>C. The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit, and shall follow any more detailed schedule of compliance set forth in the applicable requirement.</p> <p>The permittee shall be subject to MACT standards from the date of publication by EPA.</p>	<p>18.5.6 18.4.8(h) 18.7.3 18.7.6</p>
5	<p><u>Authority</u></p> <p>Nothing in this Operating Permit or conditions appended thereto shall negate any authority granted to this Department or the Health Officer pursuant to Alabama Air Pollution Control Act No. 769 (Regular Session, 1971) and Act No. 612 (Regular Session, 1982) or any regulations promulgated thereunder.</p>	<p>AL Act 769 AL Act 612</p>
6	<p><u>Emission Reduction Plan</u></p> <p>Upon notification by this Department, the permittee shall submit an Air Pollution Emission Reduction Plan in a format approved by this Department concerning air contaminant emissions reductions to be taken during declared episodes.</p>	<p>18.2.8(b)</p>
7	<p><u>Bypass Prohibited</u></p> <p>The permittee shall not bypass, without prior approval from this Department, any air pollution control device. The permittee shall not shut down any air pollution control device unless such shutdown is accompanied by the corresponding shutdown of the respective source that the device is intended to control.</p>	<p>18.2.8(a)</p>

No.	Federally Enforceable General Permit Conditions	Regulations
8	<p><u>Compliance</u> The permittee must comply with all conditions of the Rules and Regulations. Noncompliance with a permit will constitute a violation of the Act and the Rules and Regulations and may result in enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.</p>	18.5.6
9	<p><u>Noncompliance</u> Noncompliance with a permit will constitute a violation of the Act and the Rules and Regulations and may result in enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.</p>	18.5.6
10	<p><u>Compliance Defense</u> The permittee shall not use as a defense in an enforcement action, that maintaining compliance with permit conditions would have required halting or reducing the permitted activity.</p>	18.5.7
11	<p><u>Termination for Cause</u> This permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance or termination, or of a notification of a planned change or anticipated noncompliance will not stay any permit condition.</p>	18.5.8
12	<p><u>Shutdown of Control Equipment</u> In the case of shutdown of air pollution control equipment for scheduled maintenance, the intent shall be reported to this Department at least 24 hours prior to the planned shutdown unless the scheduled shutdown is accompanied with the shutdown of the source being controlled, including the information listed in Section 1.12.1.</p>	1.12.1
13	<p><u>Maintenance of Controls</u> If a control device is installed at the facility, the following requirements apply: A. The permittee shall equip each fabric filter particulate matter control device with a pressure differential measuring device to measure the pressure drop across the filter media in the control device. The device shall be installed in a location which is easily accessible for inspection by Department personnel. B. All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in accordance with the manufacturer's specifications or alternative procedures approved by the Department so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emissions of air contaminants shall be maintained near the source and provided to the Department upon request. C. The permittee shall conduct routine inspections on all required control equipment. All inspection results and repair work performed on the pollution control device shall be recorded. These records shall be kept in a permanent form suitable for inspection.</p>	18.2.4
14	<p><u>Monitoring Records</u> Records of all required monitoring shall be retained for a period of 5 years from the date of measurement including all calibration and maintenance records and all original strip- chart recordings and copies of all reports.</p>	18.5.3(b)(1)(vii)
15	<p><u>Monitoring Reports</u> Unless notified otherwise, reports of required monitoring shall be submitted to the Department by July 31st and January 31st of each year. All instances of deviations from permit requirements must be clearly identified in such reports. A responsible</p>	18.5.3(c)(1)

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	official as defined in the Rules and Regulations must sign all reports. The NSPS regulations under 40 CFR 60.750, subpart WWW, does specify reporting periods.	
16	<p><u>Deviations</u></p> <p>Deviations from permit requirements shall be reported within 2 working days of such deviations, including those attributable to upset conditions, the probable cause of said deviations and any corrective actions or preventive measures that were taken.</p>	18.5.3(c)(2)
17	<p><u>Property Rights</u></p> <p>No property rights of any sort or any exclusive privilege are conveyed through the issuance of this Operating Permit.</p>	18.5.9
18	<p><u>Requests for Information</u></p> <p>The permittee shall furnish to the Department within 30 days, or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by the permit.</p>	18.5.10
19	<p><u>Expiration</u></p> <p>A source's right to operate shall terminate upon the expiration of this Operating Permit unless a timely complete renewal application has been submitted at least 6 months, but not more than 18 months before the date of expiration or the Department has taken final action approving the source's application for renewal by the expiration date. The expiration date of this Operating Permit is printed on the first page of this permit.</p>	18.4.3 18.5.2 18.12.2(b)
20	<p><u>Revocation</u></p> <p>This Operating Permit may be revoked for any of the following reasons:</p> <ul style="list-style-type: none"> A. Failure to comply with any conditions of the permit; B. Failure to establish and maintain such records, make such reports, install, use and maintain such monitoring equipment or methods; and sample such emissions in accordance with such methods at such locations, intervals and procedures as may be prescribed in accordance with Section 1.9.2 of the Rules and Regulations; C. Failure to comply with any provisions of any Department administrative order issued concerning the permitted facility; D. Failure to comply with the Rules and Regulations; or E. For any other cause, after a hearing which establishes, in the judgment of the Department, that continuance of the permit is not consistent with the purpose of the Act or Rules and Regulations. 	18.2.9
21	<p><u>Severability</u></p> <p>In case of legal challenge to any portion of this Title V Operating Permit, the remainder of the permit conditions shall continue in force.</p>	18.5.5

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22	<p><u>Reopening for Cause</u> Under any of the following circumstances, this Operating Permit will be reopened and revised prior to the expiration of the permit:</p> <ul style="list-style-type: none"> A. Additional applicable requirements under the Clean Air Act become applicable to the permittee with a remaining permit term of 3 or more years. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirements. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire. B. Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit. C. The Department, ADEM or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit. D. The Administrator, ADEM or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements. 	18.13.5
23	<p><u>Changes or Termination for Cause – No Stay of Permit Conditions</u> This permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance or termination, or of a notification of a planned change or anticipated noncompliance will not stay any permit condition.</p>	18.5.8
24	<p><u>Requests for Information</u> The permittee shall furnish to the Department within 30 days, or for such other reasonable time as the Department may set, any information that the Department may request in writing copies of records required to be kept by the permit to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance.</p>	18.5.10
25	<p><u>Entry and Inspections</u> The permittee shall allow the Department or authorized representative, upon presentation of credentials and other documents that may be required by law, to conduct the following:</p> <ul style="list-style-type: none"> A. Enter upon the permittee's premises where a source is located or emissions related activity is conducted or where records are kept pursuant to the permit conditions; B. Review and/or copy at reasonable times any records kept pursuant to the permit conditions; C. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices or operations required by the permit; and D. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements. <p>Denial of access upon proper identification is grounds for permit revocation.</p>	18.7.2 18.2.9(d)
26	<p><u>Flexibility Changes</u> Certain changes (per Section 502 (b)(10) of the Act) can be made to this Operating Permit without a revision if no modification as defined in the Rules and Regulations would occur and the changes do not exceed the emissions allowed under this permit provided that written notification is sent to the Department and EPA at least 7 days before the change is made. The written notification shall describe the proposed change, the date of the change, any</p>	18.13.2

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	change in emissions, and any term or condition of the permit which is no longer valid due to the change.	
27	<p><u>Minor Permit Modifications</u> Minor permit modification procedures may be used only for those permit modifications that:</p> <ul style="list-style-type: none"> A. Do not violate any applicable requirement; B. Do not involve significant changes to existing monitoring, reporting, or record keeping requirements in the permit; C. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis; D. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject; E. Are not modifications under any provision of title I of the Act; and F. Are not required by Part 18.12 of this Chapter to be processed as a significant modification. <p>An application requesting the use of minor permit modification procedures shall meet the requirements of Section 18.4.8 relative to the modification and shall include the information listed at 18.3.3(b).</p>	18.13.3(a)(1) 18.13.3
28	<p><u>Significant Modifications</u> Modifications that are significant modifications under the PSD (Part 2.4) or nonattainment (Part 2.5) regulations, are modifications under the NSPS or NESHAPS regulations, or otherwise do not meet the requirements for minor permit modifications from Section 18.13.3 of the Rules and Regulations must be incorporated in the Operating Permit using the requirements for sources initially applying for an Operating Permit, including those for applications, public participation, review by affected States, review by ADEM, and review by EPA, as described in Parts 18.4 and 18.15 of the Rules and Regulations.</p>	18.13.4
29	<p><u>Alternative Operating Scenarios</u> No alternative operating scenarios were identified by the permittee in its application.</p>	18.5.13
30	<p><u>Economic Incentives</u> No permit revision shall be required under any approved economic incentives, marketable permit emissions trading and other similar programs or processes for changes that are provided for in the Operating Permit.</p>	18.5.12
31	<p><u>Trading of Emissions Increases or Decreases</u> The permittee did not request authorization to trade emissions increases and decreases.</p>	18.5.14
32	<p><u>Emergency Provision</u></p> <ul style="list-style-type: none"> A. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emissions limitation under the Operating Permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error. B. Exceedances of emission limits during emergencies (as defined above) at a facility may be exempted from being violations provided that: 	18.11.2

No.	Federally Enforceable General Permit Conditions	Regulations
	<ol style="list-style-type: none"> 1. The permittee can identify the cause(s) of the emergency; 2. At the time of the emergency, the permitted facility was being properly operated; 3. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; 4. The permittee submitted notice of the emergency to the Health Department within 2 working days of the time when emission limitations were exceeded due to the emergency, including those deviations attributable to upset conditions as defined in the permit, the probable cause of said deviations, and any corrective actions or preventive measures that were taken; 5. The permittee submitted a written documentation of what was reported in the notice of the emergency to the Department within 5 working days of the emergency; and 6. The permittee immediately documented the emergency exceedance in an "Emergency Log", which shall be maintained for 5 years in a form suitable for inspection upon request by a representative of the Department. <p>C. This provision is in addition to any emergency or upset provision contained in any applicable requirement.</p> <p>D. The Health Officer shall be the sole determiner of whether an emergency has occurred.</p>	
33	<p><u>Fugitive Dust</u></p> <p>The permittee shall take reasonable precautions to prevent dust from any operation, process, handling, storage, or transportation activity, including from dust from paved and unpaved roads and grounds in the source permitted herein from becoming airborne. The permittee shall not cause or allow the discharge of visible emissions which travel beyond the property line of the landfill. Specific dust control measures for the landfill are included in the emission unit requirements.</p>	<p>6.2.1 6.2.2 18.2.4</p>
34	<p><u>Obnoxious Odors</u></p> <p>This Operating Permit is issued with the condition that, should obnoxious odors arising from the facility operations be verified by Department inspectors, measures to abate the odorous emissions shall be taken upon determination by this Department that these measures are technically and economically feasible.</p>	<p>6.2.3</p>
35	<p><u>Title IV Requirements (Acid Rain Program)</u></p> <p>Where an applicable requirement of Chapter 18 of the Rules and Regulations is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act (the acid rain program), both provisions shall be incorporated into the permit and shall be enforceable by the Department. Emissions exceeding any allowances that the permittee lawfully holds under title IV of the Act or the regulations promulgated thereunder are prohibited. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the permittee, however, allowances may not be used as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in the regulations promulgated pursuant to Title IV of the Act.</p>	<p>18.5.1(b) 18.5.4</p>
36	<p><u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances</p>	<p>40 CFR 82 18.1.1(e)(10) 18.1.1(w)(4)</p>

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	<p>such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR 82, Subpart F.</p> <p>A. No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR 82, Subpart F.</p> <p>B. The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the U.S. EPA and the Department as required.</p>	
37	<p><u>Asbestos Demolition and Renovation</u></p> <p>Demolition and renovation activities at this facility are subject to the National Emission Standard for Asbestos, 40 CFR 61, Subpart M. To determine the applicable requirements of the Standard, the permittee must thoroughly inspect the affected part of the facility where the demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II non-friable asbestos-containing materials, prior to the commencement of the demolition or renovation operation. The permittee shall comply with all applicable sections of the Standard, including notification requirements, emission control and waste disposal procedures. The permittee shall also ensure that anyone performing asbestos-related work at the facility is trained and certified according to the Alabama Department of Environmental Management's regulations for Asbestos Contractor Certification.</p>	<p>61.145 61.150 14.2.12 14.2.12(a)(1)</p>
38	<p><u>Prevention of Accidental Releases</u></p> <p>The permittee shall comply with the requirements of Section 112(r) of the Act to prevent accidental releases of any substance listed pursuant to Section 112(r) or any other extremely hazardous substance. If the landfill has more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, the permittee shall comply with the requirements of this part no later than the latest of the following dates:</p> <p>A. June 21, 1999;</p> <p>B. Three years after the date on which a regulated substance is first listed under 68.130; or</p> <p>C. The date on which a regulated substance is first present above a threshold quantity.</p>	<p>112(r) 40 CFR 68</p>
39	<p><u>Storage of VOC</u></p> <p>The permittee shall not place, store or hold in any stationary storage vessel a VOC with a true vapor pressure of 1.5 psia or greater under actual storage conditions unless the following requirements are met:</p> <p>A. Any storage vessel of more than 1,000-gallon capacity shall be equipped with a permanent submerged fill pipe or bottom fill pipe; and</p> <p>B. Any storage vessel of more than 40,000-gallon capacity shall be equipped with a vapor loss control device as provided by Section 8.3.2(b).</p> <p>The permittee shall not cause or allow the storage or disposal of VOC/HAP materials in a manner that would result in vaporization to the atmosphere.</p>	<p>8.3 18.2.4</p>

No.	Federally Enforceable General Permit Conditions	Regulations
40	<p><u>Testing</u></p> <p>A source emissions test may be required by this Department at any time. The Administrator may require a performance test for a source subject to NESHAP at any time authorized by section 114 of the Clean Air Act. The permittee shall provide each point of emission with sampling ports, ladders, stationary platforms, and other safety equipment to facilitate testing. The permittee shall notify the Department in writing at least 30 days prior to conducting any required emissions test on any source. This notice shall state the source to be tested, the proposed time and date(s) of the test, the purpose of the test, and the methods to be used. The methods for such testing shall be in accordance with procedures established by 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63 and any emissions unit specific permit requirements. The permittee shall submit the results of all emissions tests in electronic form to this Department within a time period specified by this Department; however, not to exceed 45 days from the test completion date.</p>	<p>1.9.1 1.10.3 18.2.5 18.2.8(c)</p>
41	<p><u>Retention of Records</u></p> <p>Records of all required monitoring data, fuel consumption, analyses, reports, MSDS, and other support information shall be retained for a minimum of 5 years from the date when the record was generated. Records must be readily accessible (on-site or retrievable within 4 hours) and suitable for inspection. Records may be kept in hard copy or electronically. Specific records to be made and retained are listed in the emission unit conditions.</p>	<p>18.5.3(b) 60.758(a) 335-3-19- .03(7)(a)</p>
42	<p><u>Recordkeeping</u></p> <p>In addition to the specific records required to be maintained under the landfill emission unit requirements, the permittee shall maintain the following records needed for the annual computation of emissions:</p> <ul style="list-style-type: none"> A. The quantity of waste disposed; B. The number of days the landfill operated; C. The quantity of any landfill gas collected and controlled; D. The identity and quantity of fuels combusted by heavy equipment and/or stored onsite; E. The number of dump trucks admitted to the facility; and F. All spills or other mishaps of VOC/HAP materials. The record shall include the date, time, and quantity (gallons or pounds) of VOC/HAP materials involved in the spill or mishap. The permittee shall document the amount of VOC/HAP materials recovered and the amount that evaporated to the atmosphere. 	<p>1.9.1 2.1.1(g) 2.1.3 18.5.1</p>

43	<p><u>Timing for Submission of Reports and Notifications</u></p> <p>The permittee shall submit all reports and notifications required by any permit condition and by any applicable NESHAP and/or NSPS to the Department. Any document required to be submitted by this permit shall contain a certification by a responsible official that meets the requirements of Section 18.4.9. The reports may be sent by U. S. mail or by electronic mail. Reports submitted by US mail shall be postmarked on or before the due date. Reports submitted by electronic mail shall be received on or before the due date, and a paper copy of the must be submitted as well. Title V Annual and Semiannual reports shall be submitted to the following 2 agencies at the following addresses:</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Jefferson County Department of Health Air Pollution Control Program P.O. Box 2648 Birmingham, Alabama 35202-2648</p> </div> <div style="width: 10%; text-align: center;">and to</div> <div style="width: 45%;"> <p>EPA Region IV Atlanta Federal Center 61 Forsyth Street Atlanta, GA 30303</p> </div> </div> <p>The following reports are required to be submitted on the following schedule:</p> <ol style="list-style-type: none"> A. Annual Production and Emissions Report, due February 10th of each year covering the previous calendar year operation including the information listed in General Condition 46. B. Annual Title V Compliance Certification, covering the period from January 4th to January 3rd of the following year, shall be submitted by February 3rd each calendar year, including the information listed in General Condition 47. C. Title V 6-Month Monitoring Report, covering the periods of January 1st – June 30th (due July 30th and July 1st – December 30th (due January 30th), including the information listed in General Condition 47. D. NMOC Emission Rate Report and results of Tier 2 testing within 60 days after the date of determining the NMOC concentration and corresponding NMOC emission rate. Annual NMOC emission reports may be submitted with the Annual Production and Emissions Report for years in which testing is not performed. NMOC emissions reports shall include the information listed in Emission Unit Condition 10. E. Episodic prompt reporting of malfunctions, deviations, emergencies and violations from the permit within 2 working days of the malfunction, deviation, emergency or discovery of a violation. F. Notifications as follows: <ol style="list-style-type: none"> 1. Notify the EPA Administrator at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited and covered as required by §61.154(j); 2. Notification of any increase in design capacity within 30 days of ADEM approval, including the new design capacity report; 3. Performance testing at least 30 days prior to scheduled testing; 4. Tier 4 surface methane emissions demonstration at least 30 days prior to the planned monitoring event as required by ADEM 335-3-19-.03(6)(I).; 5. Notify the Department within 2 working days of discovering a deviation or violation, including the probable cause and corrective actions taken; and 6. Notify the Department in writing within 2 working days of becoming subject to a federal Maximum Achievable Control Technology (MACT) standard pursuant to Section 112 of the Act (local requirement). Information required to be included is listed in General Condition 49 if not otherwise identified above. G. Results of any required testing or visible emissions observations must be submitted to the Department within 60 days of completion; and 	<p>18.4.9 18.5.3(c) 18.7.1 18.7.4 18.7.5 18.11.2(b)(4) 18.7.6 60.757(b) 60.676(f) 61.154(j)</p>
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	H. Compliance schedule progress reports according to the requirements of Section 18.7.4 of the Rules and Regulations if a compliance schedule is required.	
44	<p><u>Electronic Reporting Requirements</u></p> <p>Electronic reporting is required for the following reports:</p> <p>A. NMOC Emission Rate Reports required by ADEM 335-3-19-.03(6)(b);</p> <p>B. Tier 2 NMOC Emission Rate Reports required by ADEM 335-3-19-.03(3)(a)3. and 335-3-19-.03(6)(c)4.(i);</p> <p>C. Tier 4 Surface Emission Reports required by ADEM 335-3-19-.03(6)(c)4.(iii); and</p> <p>D. Liquids Addition Reports required by ADEM 335-3-19-.03(6)(k).</p> <p>These reports shall be submitted to the EPA via the CEDRI (CEDRI can be accessed through the EPA's CDX.) using the appropriate electronic report in CEDRI for Chapter 335-3-19 or an alternate electronic file format consistent with the XML schema listed on the CEDRI Web site (https://www3.epa.gov/ttn/chief/cedri/index.html). If the reporting form specific to ADEM Chapter 335-3-19 is not available in CEDRI at the time that the report is due, the report shall be submitted to the appropriate address listed in §60.4. Once the form has been available in CEDRI for 90 calendar days, the owner or operator shall begin submitting all subsequent reports via CEDRI.</p>	335-3-19-.03(6)(i)2.
45	<p><u>Retention of Records</u></p> <p>Records of all required monitoring data, fuel consumption, analyses, reports, MSDS, and other support information shall be retained for a minimum of 5 years from the date when the record was generated. Records must be readily accessible (on-site or retrievable within 4 hours) and suitable for inspection. Records may be kept in hard copy or electronically. Specific records to be made and retained are listed in the emission unit conditions.</p>	18.5.3(b) 60.758(a) 335-3-19-.03(7)(a)
46	<p><u>Contents of Annual Production and Emissions Report</u></p> <p>The permittee shall submit by February 10th of each year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information for each emissions unit permitted herein:</p> <p>A. LandGEM report using best available information concerning annual landfill waste additions and the results of any site-specific testing;</p> <p>B. The annual recalculation of the landfill's design capacity;</p> <p>C. The quantity in tons of NMOC emissions that are destroyed by any collection and control system;</p> <p>D. The quantity of all combustion fuels (including diesel, gasoline, natural gas and propane, but not including landfill gas) which are combusted within the landfill;</p> <p>E. The number of vehicle miles traveled within the landfill by road type (paved or unpaved);</p> <p>F. The annual throughput in gallons, the chemical or trade name, average storage temperature and average true vapor pressure of the contents of each storage tank with a capacity greater than 1,000-gallons;</p> <p>G. The quantity of VOC and/or HAP material lost (evaporated to the atmosphere) as a result of spills and other mishaps; and</p> <p>H. The actual calendar year emissions (point and fugitive) of all regulated air pollutants as defined in Chapter 18 of the Rules and Regulations, including but not necessarily limited to TSP, PM₁₀, PM_{2.5}, NO_x, CO, VOC, and SO_x, and all HAP based upon the above calendar year records, and including the products of combustion of internal combustion engines.</p> <p>The submission shall include a certification by a responsible official of the truth, accuracy and completeness of the report. Concurrence with the calculations by</p>	1.5.15 1.9.2 18.7.1

	the Department shall be the basis for annual emission fees in accordance with Chapter 16 of the Rules and Regulations.	
47	<p><u>Contents of Title V Submissions</u></p> <p>Any document or report submitted under this requirement shall contain a certification of truth, accuracy, and completeness by a responsible official that meets the requirements of Section 18.4.9 of the Rules and Regulations. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete. These documents shall be submitted to the Department and to EPA.</p> <p>A. Title V Annual Compliance Certification: The permittee shall provide a means for monitoring the compliance of its air pollution sources with the emissions limitation, standards and work practices listed or referenced within this permit. The compliance certification shall include the following:</p> <ol style="list-style-type: none"> 1. The identification of each term or condition of this permit that is being certified; 2. The emission unit or units to which the term or condition applies; 3. The compliance status; 4. Whether compliance has been continuous or intermittent; 5. The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with the Rules and Regulations; and 6. Such other facts as the Department may require to determine the compliance status of the source, including but not limited to identifying each deviation that occurred. <p>B. Title V 6-Month Monitoring Reports shall include the following:</p> <ol style="list-style-type: none"> 1. Monitoring of Waste Acceptance Rate, as demonstrated by the submission of quarterly volume reports as submitted to ADEM; and 2. Deviations from any permit term, condition or regulation. <p>C. Prompt Reporting of Malfunctions, Deviations, Emergencies and Violations: Malfunctions, deviations, violations of permit requirements and exceedances of emission limits during an emergency shall be reported within 2 working days, including the probable cause of said malfunctions, emergency, deviations or violations and any corrective actions or preventive measures that were taken. In the event of an emergency, written documentation demonstrating that the event falls under the Department's emergency provision (General Condition 35) must be submitted within 5 days of the event. This episodic reporting requirement is in addition to and does not replace periodic reporting requirements.</p>	<p>18.4.9 18.7.1 18.7.5 18.5.3(c)(2) 18.11.2(b)(4) 60.757(b)</p>
48	<p><u>Mandatory Greenhouse Gas Reporting (for informational purposes only)</u></p> <p>The permittee shall be aware that the facility may be required to report emissions of greenhouse gases under the Mandatory Greenhouse Gas Reporting rules. The threshold for reporting is annual emissions equal to 25,000 metric tons CO₂e, calculated using the methods presented in 40 CFR 98. Mandatory greenhouse gas reporting is made directly to EPA and is not an enforceable requirement of this Title V Operating Permit. It is the permittee's responsibility to determine whether reporting to EPA under 40 CFR 98 is required each calendar year.</p>	40 CFR 98

SUMMARY OF REQUIREMENTS FOR LANDFILL OPERATIONS

Description: Municipal Solid Waste Landfill – 4,053,982 Megagrams Design Capacity – Subject to ADEM
Solid Waste Disposal Facility Permit 37-12

Permitted Operating Schedule: 24 hours/day, 7 days/week, and 52 weeks/year
Type of Fuel Used: Primary: None
Secondary: None

Pollutant	Permit Emission Limits	Applicable Standards
NonMethane Organic Compounds (NMOC)	The lower Regulatory Threshold to Install Controls is 34 Megagrams/Year	ADEM Chapter 335-3-19
NonMethane Organic Compounds (NMOC)	The lower Regulatory Threshold to Install Controls is 50 Megagrams/Year	Section 13.2.75 40 CFR 60.750 ADEM Chapter 335-3-19
Fugitive Dust (PM)	N/A	Part 6.2
Obnoxious Odors	N/A	Section 6.2.3
Asbestos	N/A	40 CFR 61, Subpart M

Pollutants Emitted:

Pollution Control Devices: N/A

Reference Test Methods: For NMOC Concentration:
Collection: EPA Method 25 or 25C of 40 CFR 60, Appendix A
Analysis: EPA Method 18 of 40 CFR 60, Appendix A

For Site-Specific Methane Generation Rate Constant:
EPA Method 2E of 40 CFR 60, Appendix A

For Tier 4 Surface Emission Monitoring:
EPA Method 21 of 40 CFR 60, Appendix A

Continuous Monitoring System: N/A

Monitoring Requirements: Annual NMOC Emissions Rate
Tier 2 Testing
Design Capacity and Waste Acceptance Rates

Recordkeeping Requirements: Tier 2 Testing Results
Annual NMOC Emissions Reports
Design Capacity Waste Acceptance Rates
Title V Compliance Certification
Semi-Annual Reporting Records

Testing Requirements: General Condition No. 40

Reporting Requirements: Annual Reporting of NMOC Emission Rate
Emission Monitoring and Reporting
Title V Certification

Semi-Annual Monitoring Reports

Applicable Regulations:

Chapter 6
Chapter 18
ADEM Chapter 335-3-19
40 CFR 60, Subparts WWW & A
40 CFR 61, Subpart M

Emissions Unit No.	Emissions Unit Description
001	Municipal Solid Waste Landfill – 4,053,982 Megagrams Design Capacity – Subject to ADEM Solid Waste Disposal Facility Permit 37-12

No.	Federally Enforceable Permit Conditions	Regulations
1.	<p><u>Applicability</u></p> <p>A. The emission unit. "Municipal Solid Waste Landfill" includes the entire disposal facility as described in ADEM Solid Waste Disposal Facility Permit 37-12, including but not limited to areas where household and other permitted waste is placed for permanent disposal, and also includes all of the equipment and operations of the MSW landfill. The facility is subject to the following regulations:</p> <ol style="list-style-type: none"> Chapter 2 of the Rules and Regulations (New Source Review); Part 6.2 of the Rules and Regulations (Fugitive Dust); Chapter 16 of the Rules and Regulations (Operating Permit Fees); Chapter 18 of the Rules and Regulations (Major Source Operating Permit Requirements); MSW landfill is subject to Section 13.2.75 of the Rules and Regulation ADEM Air Division Administrative Code Chapter 335-3-129 (Control of Municipal Solid Waste Landfill Gas Emissions), which is a state rule only at the time of permit issuance; 40 CFR 61, Subpart M (Asbestos) and Subpart A (General Provisions); and 40 CFR 60, Subpart WWW (Municipal Solid Waste Landfills with a design capacity greater than 2.5 Million Megagrams which have been modified on or after May 30, 1991) and Subpart A (General Provisions). <p>B. At the time of permit issuance, the landfill is not subject to the following regulations, however, applicability would be triggered under these circumstances:</p> <ol style="list-style-type: none"> If the landfill is modified after July 17, 2014, the landfill will become subject to 40 CFR 60, Subpart XXX in place of Subpart WWW/or ADEM 335-3-19; The landfill become subject to the NESHAP 40 CFR 63, Subpart AAAAA if any of the following events occur: <ol style="list-style-type: none"> Uncontrolled emissions equal or exceed 50 Mg/yr NMOC as calculated according to 40 CFR 60.754(a), Subpart WWW; Potential emissions of HAP from the landfill or a collocated facility exceed 10 tons for any single HAP or 25 tons for combination HAP; or <p>Installation of a bioreactor, defined in 40 CFR 63.1990 to mean the controlled addition of any liquid other than leachate to raise the moisture content of the cell to at least 40% by weight to enhance anaerobic biodegradation.</p>	<p>Chapter 2 6.2 Chapter 16 Chapter 18 60.750 335-3-19-02(1) 40 CFR 60, 61 40 CFR 60 40 CFR 60 63.1935 40 CFR 60.754(a)</p>
2	<p><u>Design Capacity</u></p> <p>The Emissions Unit No. 001, MSW Landfill, shall not exceed the design capacity of 4,053,982 Megagrams unless ADEM has approved an application for a vertical and/or horizontal expansion of the landfill. After the permittee has received approval for an increase of design capacity from ADEM, the permittee shall submit to the Department a new permit application, including but not limited to the amended design capacity report and a copy of ADEM's approval of the modification. Under a renewal permit of ADEM (every 5 years), a copy of ADEM's renewal permit shall be submitted to this Department. The design capacity report shall include the information listed at 40 CFR 60.757(a)(2) and/or ADEM 335-19-.03(6)(a)2....</p>	<p>18.2.4 1.5.15 40 CFR 60</p>
3	<p><u>Bioreactor</u></p> <p>The permittee shall submit an application to modify the permit prior to installing a bioreactor, defined as an MSW landfill or portion of a MSW landfill where any liquid</p>	<p>18.2.4 1.5.15 63.1990</p>

	other than leachate (leachate includes landfill gas condensate) is added in a controlled fashion into the waste mass (often in combination with recirculating leachate) to reach a minimum average moisture content of at least 40 percent by weight to accelerate or enhance the anaerobic (without oxygen) biodegradation of the waste.	
4	<p>Closure Notice</p> <p>If the landfill is permanently closed, the permittee shall submit a closure report as provided for in 40 CFR §60.757(d) and/or ADEM 335-3-19-.03(6)(e) within 30 days of waste acceptance cessation. If a closure report is submitted, no additional waste may be placed into the landfill without filing a notification of modification as described under 40 CFR §60.7(a)(4).</p>	60.752(b)(1)(ii)(B) 335-3-19-.03(1)(d)1.(ii)(II)
5	<p>Landfilling of Asbestos-Containing Waste Material</p> <p>The permittee shall ensure that there are no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited or shall meet the requirements of 40 CFR §61.154(c). The permittee shall meet the fencing and signage requirements of 40 CFR §61.154(b).</p>	61.154
6	<p>Fugitive Dust</p> <p>The permittee shall take reasonable precautions to prevent dust from any operation, process, handling, storage, or transportation activity, including from dust from paved and unpaved roads and grounds in the source permitted herein from becoming airborne. The permittee shall not cause or allow the discharge of visible emissions which travel beyond the property line of the landfill. Specific dust control measures approved to be used as necessary for this emission unit include, but are not limited to:</p> <ul style="list-style-type: none"> A. Wet suppression and compaction shall be used to prevent fugitive dust emanating from active and completed waste cells; and B. Unpaved plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne: <ul style="list-style-type: none"> 1. By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic; 2. By reducing the speed of vehicular traffic to a point below that at which dust emissions are created; 3. By paving; 4. By the application of binders (chemical dust suppressants) to the road surface at any time the road surface is found to allow the creation of dust emissions; or 5. By any combination of the above methods which results in the prevention of dust becoming airborne from the road surface. Other dust control methods not listed above may be used if approved by the Department. C. Paved plant roads and grounds shall be maintained in the following manner so that dust will not become airborne: <ul style="list-style-type: none"> 1. Mechanical cleaning (vacuuming); 2. Water flushing; 3. Earth or other dust forming material that is deposited on the paved roads shall be removed at the earliest opportunity subject to safety; 4. Paving or using a chemical dust suppressant on unpaved access points; 5. Washing and dewatering tires and the underbody of trucks which enter a paved road from an unpaved road; or 6. By any combination of the above methods which results in the prevention of dust becoming air borne from the road surface. Other dust control methods not listed above may be used if approved by the Department. 	6.2.1 6.2.2 18.2.4

7	<p><u>Tier 2 NMOC Emission Calculation Less Than 50 Mg</u> If the Tier 2 NMOC emissions are less than 50 megagrams per year, the permittee shall submit a periodic emissions report in accordance with 40 CFR 60.757(b)(1) and retest the site-specific NMOC concentration every 5 years using the EPA reference methods and procedures specified in 40 CFR 60, Appendix A</p>	<p>2.1.3 13.2.75 18.5 40 CFR 60</p>
8	<p><u>Tier 3 NMOC Emissions Less Than 50 Mg</u> If the Tier 2 NMOC emissions are greater than 50 megagrams per year, the permittee shall either submit a design plan for a collection and control system in accordance with 40 CFR 60.752(b)(2) or recalculate NMOC emissions using Tier 3 site specific methane generation rate determined in accordance with 40 CFR 60.754(a)(4).</p>	
9	<p><u>NMOC Emissions Greater Than 50 Mg</u> If the NMOC emission rate is greater than 50 megagrams per year, a design plan for a collection and control system shall be prepared by a professional engineer and submitted within 1 year of the date that the emission rate equaled or was greater than 50 megagrams per year, unless Tier 2 or Tier 3 testing demonstrates that the emission rate is less than 50 megagrams per year as specified in 40 CFR 60.757(c)(1) or 40 CFR 60.757(c)(2).</p>	<p>2.1.3 13.2.75 18.5 40 CFR 60</p>
10	<p><u>Collection and Control System</u> If a gas collection and control system is required, the collection and control system shall be installed within thirty (30) months after the first annual report in which the NMOC emission rate equals or exceeds 50 megagrams per year, unless the Tier 2 or Tier 3 testing demonstrates the NMOC emission rate is less than 50 megagrams per year as specified in 40 CFR 60.757(c)(1) or 40 CFR 60.757(c)(2).</p>	<p>2.1.3 13.2.75 18.5 40 CFR 60</p>
11	<p><u>Test Methods and Procedures</u> If a MSW landfill gas collection system is required, the gas collection system shall demonstrate compliance using the methods and procedures specified in 40 CFR 60.755.</p>	<p>13.2.75 40 CFR 60</p>
12	<p><u>Emission Monitoring and Reporting</u> If the permittee submits a 5-year NMOC emission report in accordance with 40 CFR 60.757(b)(1), the annual MSW landfill waste acceptance rate shall be documented to determine if it exceeds the rate used in the 5-year NMOC calculations. If the acceptance rate exceeds the rate used in the report, a revised NMOC report shall be submitted based on the known acceptance rate.</p>	<p>13.2.75 40 CFR 60</p>
13	<p><u>Monitoring of Collection Control System</u> If a MSW landfill gas collection and control system is required, the monitoring of the MSW landfill gas collection and control system shall comply with the provisions of 40 CFR 60.756</p>	<p>13.2.75 40 CFR 60</p>
14	<p><u>Annual NMOC Emission Report</u> If the MSW landfill's annual NMOC emissions rate is less than 50 megagrams per year, the permittee shall submit a NMOC emissions report in accordance with 40 CFR 60.757(B)(1) and shall recalculate the NMOC emissions rate annually as required in 40 CFR 60.752(b)(1).</p>	<p>13.2.75 40 CFR 60</p>
15	<p><u>MSW Landfill Waste Acceptance Rate & NMOC Emissions Report</u> If the permittee submits a 5-year NMOC emissions report in accordance with 40 CFR 60.757(b)(1), the annual waste acceptance rate shall be documented to determine if it exceeds the acceptance rate used in the 5-year NMOC emissions calculations. If the waste acceptance rate exceeds the rate used in the report, a revised NMOC emission report shall be submitted based on the known waste acceptance rates.</p>	<p>13.2.75 40 CFR 60</p>

No.	Federally Enforceable Permit Conditions of Emissions Unit No. 001	Regulations
16	<p><u>Annual NMOC Emissions Report</u> If the MSW landfill's annual NMOC emissions rate is less than 50 megagrams per year, the permittee shall submit a NMOC emissions report in accordance with 40 <u>CFR</u> 60.757(b)(1) and shall recalculate the NMOC emissions rate annually as required in 40 <u>CFR</u> 60.752(b)(1).</p>	13.2.75 40 <u>CFR</u> 60
17	<p><u>MSW Landfill Waste Acceptance Rate & NMOC Emissions Report</u> If the permittee submits a 5-year NMOC emissions report in accordance with 40 <u>CFR</u> 60.757(b)(1), the annual waste acceptance rate shall be documented to determine if it exceeds the acceptance rate used in the 5-year NMOC emissions calculations. If the waste acceptance rate exceeds the rate used in the report, a revised NMOC emission report shall be submitted based on the known waste acceptance rates.</p>	13.2.75 40 <u>CFR</u> 60
18	<p><u>Design Capacity & Waste Acceptance Records</u> The permittee shall maintain on-site records of the MSW landfill's design capacity (in Mg or m³), current waste in place and year-by-year waste acceptance rate.</p>	13.2.75 40 <u>CFR</u> 60
19	<p><u>Collection and Control System Record</u> The owner or operator of a MSW landfill gas collection and control system shall maintain all records specified in 40 <u>CFR</u> 60.758.</p>	13.2.75 40 <u>CFR</u> 60
20	<p><u>Annual Reporting</u> The owner or operator of a MSW landfill gas collection and control system shall submit an annual report in accordance with the requirements in 40 <u>CFR</u> 60.757(f).</p>	13.2.75 40 <u>CFR</u> 60
21	<p><u>NMOC Emission Rate Report</u> The annual NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions. If the estimated NMOC emission rate as reported in the annual report to the Director is less than the emission cutoff rate in each of the next 5 consecutive years, the owner or operator may elect to submit an estimate of the NMOC emission rate for the next 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 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 Department. This estimate shall be revised at least once every 5 years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate shall be submitted to the Department. The revised estimate shall cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.</p>	60.752(b) 60.757(b) 335-3-19-.03(1)(d) 335-3-19-.03(6)(b) 335-3-19-.03(6)(i)2.

APPENDIX A: CROSS-REFERENCE TABLE: JCDH AIR POLLUTION CONTROL RULES AND REGULATIONS TO STATE IMPLEMENTATION PLAN

The citations to Alabama regulations provided below refer to the version of the regulation that has been approved by the U.S. EPA as part of Alabama's Clean Air Act state implementation plan (SIP), as identified in 40 CFR 52, Subpart B. In the event that there is a discrepancy between the information provided in the table below and the federal regulatory table identifying the Alabama SIP at 40 CFR 52, Subpart B, the federal regulatory table governs.

JCDH Citation	State Citation	Title/Subject
Chapter 1	Chapter No. 335-3-1	General Provisions
Part 1.1	Section 335-3-1-.01	Purpose
Part 1.3	Section 335-3-1-.02 ¹	Definitions
Part 1.7	Section 335-3-1-.03	Ambient Air Quality Standards
Part 1.9	Section 335-3-1-.04	Monitoring, Records, and Reporting
Part 1.10	Section 335-3-1-.05	Sampling and Test Methods
Part 1.11	Section 335-3-1-.06	Compliance Schedule
Part 1.12	Section 335-3-1-.07	Maintenance and Malfunctioning of Equipment; Reporting
Part 1.13	Section 335-3-1-.08	Prohibition of Air Pollution
Sections 3.2.1 – 3.2.4 & Part 3.4	Section 335-3-1-.09	Variances
Part 1.15	Section 335-3-1-.10	Circumvention
Part 1.16	Section 335-3-1-.11	Severability
Part 1.17	Section 335-3-1-.12	Bubble Provision
Part 1.18	Section 335-3-1-.13	Credible Evidence
Part 1.20	Section 335-3-1-.15	Emissions Inventory Reporting Requirements
Chapter 2	Chapter No. 335-3-14	Air Permits
Part 2.1	Section 335-3-14-.01	General Provisions
Part 2.2, except 2.2.4(h)	Section 335-3-14-.02	Permit Procedures
Part 2.3	Section 335-3-14-.03	Standards for Granting Permits
Part 2.4	Section 335-3-14-.04 ^{2, 3}	Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration (PSD)]
Part 2.5	Section 335-3-14-.05 ⁴	Air Permits Authorizing Construction in or Near Nonattainment Areas
Chapter 4	Chapter No. 335-3-2	Air Pollution Emergency
Part 4.1	Section 335-3-2-.01	Air Pollution Emergency
Part 4.3	Section 335-3-2-.02	Episode Criteria
Part 4.4	Section 335-3-2-.03	Special Episode Criteria
Part 4.5	Section 335-3-2-.04	Emission Reduction Plans
Part 4.6	Section 335-3-2-.05	Two Contaminant Episode
Part 4.7	Section 335-3-2-.06	General Episodes
Part 4.8	Section 335-3-2-.07	Local Episodes
Part 4.9	Section 335-3-2-.08	Other Sources

¹ Revisions of the definition of VOC to exclude *trans* 1-chloro-3,3,3-trifluoroprop-1-ene (Solstice™ 1233zs(E)), 2,3,3,3-tetrafluoropropene, and 2-amino-2-methyl-1-propanol (AMP) have not been approved into the SIP.

² Revisions to the following provisions have not been approved as SIP changes by EPA: the permitting applicability statement for greenhouse gases at ADEM 335-3-14-.04(1)(k) (JCDH 2.4.1(k)) and the definition of replacement unit at ADEM 335-3-14-.04(2)(bbb) (JCDH 2.4.2(bbb)).

³ As of Sept. 26, 2012 Section 335-3-14-.04 does not include Alabama's revision to adopt the PM_{2.5} SILs threshold and provisions (as promulgated in the October 20, 2010 PM_{2.5} PSD Increment-SILs-SMC Rule at 40 CFR 1.166(k)(2) and the term "particulate matter emissions" (as promulgated in the May 16, 2008 NSR PM_{2.5} Rule (as 40 CFR 51.166(b)(49)(vi)).

⁴ The following provisions are not part of the EPA-approved SIP: the portion of 335-3-14-.05(1)(k) (JCDH 2.5.1(k)) stating "excluding ethanol production facilities that produce ethanol by natural fermentation"; 335-3-14-.05(2)(c)3. (JCDH 2.5.2(c)(3)) which addresses fugitive emission increases and decreases; 335-3-14-.05(1)(h) (JCDH 2.5.1(h)) stating the actual-to-potential test for projects that only involve existing emissions units; the last sentence at 335-3-14-.05(3)(g) (JCDH 2.5.3(g)), stating "Interpollutant offsets shall be determined based on the following ratios"; and the NSR interpollutant ratios at 335-3-14-.05(3)(g)1.-4. (JCDH 2.5.3(g)(1)-(4)).

JCDH Citation	State Citation	Title/Subject
Section 4.2.3	Section 335-3-2-.09	Other Authority Not Affected
Chapter 5	Chapter No. 335-3-3	Control of Open Burning and Incineration
Sections 5.1.1 – 5.1.5 ⁵	Section 335-3-3-.01	Open Burning
Part 5.2	Section 335-3-3-.02	Incinerators
Part 5.3 ⁶ , except 5.3.4	Section 335-3-3-.03	Incineration of Wood, Peanut, and Cotton Ginning Waste
Chapter 6	Chapter No. 335-3-4	Control of Particulate Emissions
Sections 6.1.1 & 6.1.2	Section 335-3-4-.01 ⁷	Visible Emissions
Part 6.2	Section 335-3-4-.02 ⁸	Fugitive Dust and Fugitive Emissions
Part 6.3	Section 335-3-4-.03	Fuel Burning Equipment
Part 6.4	Section 335-3-4-.04	Process Industries—General
Part 6.5 ⁹	Section 335-3-4-.05	Small Foundry Cupola
Part 6.6 ¹⁰	Section 335-3-4-.06	Cotton Gins
Part 6.7	Section 335-3-4-.07	Kraft Pulp Mills
Part 6.8	Section 335-3-4-.08	Wood Waste Boilers
Part 6.9	Section 335-3-4-.09	Coke Ovens
Part 6.10	Section 335-3-4-.11	Cement Plants
Part 6.12	Section 335-3-4-.12	Xylene Oxidation Process
No equivalent provision	Section 335-3-4-.14	Grain Elevators
No equivalent provision	Section 335-3-4-.15	Secondary Lead Smelters
Chapter 7	Chapter No. 335-3-5	Control of Sulfur Compound Emissions
Part 7.1	Section 335-3-5-.01	Fuel Combustions
Part 7.2 is not equivalent	Section 335-3-5-.02	Sulfuric Acid Plants
No equivalent provision	Section 335-3-5-.03	Petroleum Production
No equivalent provision	Section 335-3-5-.04	Kraft Pulp Mills
No equivalent provision	Section 335-3-5-.05	Process Industries—General
Parts 7.6 through 7.36	Sections 335-3-5-.06 through 335-3-5-.36	TR SO ₂ Trading Program
Chapter 8	Chapter No. 335-3-6	Control of Volatile Organic Compound (VOC) Emissions
Part 8.1 ¹¹	Section 335-3-6-.24	Applicability
Part 8.2	Section 335-3-6-.25	VOC Water Separation
Part 8.3	Section 335-3-6-.26 ^{12, 13}	Loading and Storage of VOC
Part 8.4	Section 335-3-6-.27	Fixed-Roof Petroleum Liquid Storage Vessels

⁵ See also Guidelines & Standard Operating Procedures for Issuance of Open Burning Authorizations at the end of Chapter 5. ADEM 335-3-3-.01(2)(b)(6) also prohibits open burning during declared air stagnation advisories and drought emergencies.

⁶ JCDH has no equivalent for ADEM 335-3-3-.03(5), which states “Each incinerator subject to this Rule shall be properly designed, equipped, and maintained for its maximum rated burning capacity and shall be equipped with an underfire forced air system, an over-fire air recirculation secondary construction system, and variable control damper, all of which shall be electronically controlled to insure the optimum temperature range for the complete combustion of the amount and type of material waste being charged into the incinerator. Each such incinerator shall be equipped with a temperature recorder which shall be operated continuously with the incinerator, and the temperature records shall be made available for inspection at the request of the Director.”

⁷ ADEM 335-3-4-.01(1) & (2) are included in the EPA-approved SIP, however, the remaining provisions are not SIP-approved.

⁸ ADEM 335-3-4-.02(4) was removed effective July 15, 1999, however, the provision is still included in the EPA-approved SIP.

⁹ All allowable emissions rates in Table 6-3 should be construed to have 2 significant figures, consistent with ADEM 335-3-4-.05, Table 4-3.

¹⁰ All allowable emissions rates in Table 6-4 should be construed to have 1 significant figure, consistent with ADEM 335-3-4-.06, Table 4-4.

¹¹ The definition at ADEM 335-3-6-.24(2)(d) is located at JCDH Part 1.3.

¹² The EPA-approved SIP excludes only 11 compounds from the definition of VOC at ADEM 335-3-6-.26(1) (JCDH 8.3.1). The SIP-approved exemptions are listed in ADEM 335-3-1-.02(1)(gggg)(JCDH Part 1.3) as numbered exemptions 1-10 and 20).

¹³ The EPA-approved SIP requires a disposal system in conjunction with equipment required by ADEM 335-3-6-.26(2)(c)1.(i) (JCDH 8.3.2(c)(1)(i)).

JCDH Citation	State Citation	Title/Subject
Part 8.5	Section 335-3-6-.28	Bulk Gasoline Plants
Part 8.6	Section 335-3-6-.29	Gasoline Terminals
Part 8.7, except 8.7.4(b) & 8.7.5(e)	Section 335-3-6-.30	Gasoline Dispensing Facilities Stage 1
Part 8.11	Section 335-3-6-.32	Surface Coating
Part 8.12	Section 335-3-6-.33 ¹⁴	Solvent Metal Cleaning
Part 8.13	Section 335-3-6-.34	Cutback and Emulsified Asphalt
Part 8.15	Section 335-3-6-.36	Compliances Schedules
Part 8.16 ¹⁵	Section 335-3-6-.37	Test Methods and Procedures
Part 8.18	Section 335-3-6-.39	Manufacture of Synthesized Pharmaceutical Products
Part 8.20, except 8.20.8	Section 335-3-6-.41	Leaks from Gasoline Tank Trucks and Vapor Collection Systems
Part 8.22	Section 335-3-6-.43 ¹⁶	Graphic Arts
Part 8.23	Section 335-3-6-.44	Petroleum Liquid Storage in External Floating Roof Tanks
Part 8.24	Section 335-3-6-.45	Large Petroleum Dry Cleaners
Part 8.26	Section 335-3-6-.47	Leaks from Coke by-Product Recovery Plant Equipment
Part 8.27	Section 335-3-6-.48	Emissions from Coke by-Product Recovery Plant Coke Oven Gas Bleeder
Part 8.28	Section 335-3-6-.49 ¹⁷	Manufacture of Laminated Countertops
Part 8.29	Section 335-3-6-.50	Paint Manufacture
Part 8.23 ¹⁸	Section 335-3-6-.53	List of EPA Approved and Equivalent Test Methods and Procedures for the Purpose of Determining VOC Emissions
Chapter 9	Chapter No. 335-3-7	Control of Carbon Monoxide Emissions
Part 9.1	Section 335-3-7-.01	Metals Productions
Part 9.2	Section 335-3-7-.02	Petroleum Processes
Chapter 10	Chapter No. 335-3-8	Control of Nitrogen Oxides Emissions
Part 10.1	Section 335-3-8-.01	Standards for Portland Cement Kilns
Part 10.2	Section 335-3-8-.02	Nitric Acid Manufacturing
Part 10.3	Section 335-3-8-.03	NO _x Emissions from Electric Utility Generating Units
Part 10.4	Section 335-3-8-.04	Standards for Stationary Reciprocating Internal Combustion Engines
Part 10.5	Section 335-3-8-.05 ¹⁹	New Combustion Sources
Parts 10.7 through 10.38	Sections 335-3-8-.07 through 335-3-8-.38	TR NO _x Annual Trading Program
Parts 10.39 through 10.70	Sections 335-3-8-.39 through 335-3-8-.70	TR NO _x Ozone Season Trading Program
Chapter 11	Chapter No. 335-3-9	Control of Emissions from Motor Vehicles
Part 11.1	Section 335-3-9-.01	Visible Emission Restriction for Motor Vehicles
Part 11.2	Section 335-3-9-.02	Ignition System and Engine Speed
Part 11.3	Section 335-3-9-.03	Crankcase Ventilation Systems

¹⁴ ADEM 335-3-6-.33(5)(n) (JCDH 8.12.5(n)) is not included in the approved SIP.

¹⁵ Federally enforceable testing provisions for perchloroethylene dry cleaning systems are located at ADEM 335-3-6-.37(5) and federally enforceable testing provisions for capture efficiency are located at ADEM 335-3-6-.37(13).

¹⁶ The following provisions are not included in the EPA-approved SIP: the last 4 sentences of ADEM 335-3-6-.43(1)(c) (JCDH 8.22.(c)), provision ADEM 335-3-6-.43(1)(f) (JCDH 8.22.1(f)) and all provisions of ADEM 335-3-6-.43(5) & (6) (JCDH 8.22.5 and 8.22.6).

¹⁷ Current ADEM 335-6-.49(4) & (5) (JCDH 8.28.4 and 8.28.5) are not included in the EPA-approved SIP. The SIP-approved version of ADEM 335-6-.49(4) (JCDH 8.28.4) is "Compliance with this Rule shall be demonstrated via certification by the adhesive manufacturer as to the composition of the adhesive, if supported by actual batch formulation records. Sufficient data to determine as-applied formulation is different from the as-purchased adhesive."

¹⁸ Test Methods 204, 204A-204F are not included in the APR-approved SIP.

¹⁹ ADEM 335-3-8-.05 was approved into the SIP as ADEM 335-3-8-.14 but was renumbered when CAIR provisions were removed.

JCDH Citation	State Citation	Title/Subject
Part 11.4	Section 335-3-9-.04	Exhaust Emission Control Systems
Part 11.5	Section 335-3-9-.05	Evaporative Loss Control Systems
Part 11.6	Section 335-3-9-.06	Other Prohibited Acts
Part 11.7	Section 335-3-9-.07	Effective Date
Chapter 17	Chapter No. 335-3-15	Synthetic Minor Operating Permits
Part 17.1	Section 335-3-15-.01 ²⁰	Definitions
Part 17.2, except 17.2.8(h)(7)	Section 335-3-15-.02 ²¹	General Provisions
Part 17.3	Section 335-3-15-.03	Applicability
Part 17.4 ²²	Section 335-3-15-.04	Synthetic Minor Operating Permit Requirements
Part 17.5, except 17.5.2	Section 335-3-15-.05	Public Participation
Chapter 19	Chapter No. 335-3-17	Conformity of Federal Actions to State Implementation Plans
Part 19.1	Section 335-3-17.01 ²³	Transportation Conformity
Part 19.2	Section 335-3-17-.02	General Conformity

²⁰ Only the first sentence of ADEM 335-3-15-.01(g) is approved into the SIP. JCDH does not include the unapproved language.

²¹ ADEM 335-3-15-.02(10) is not included in the EPA-approved SIP. JCDH does not include the unapproved provision.

²² JCDH Part 17.4 does not include the federally enforceable provisions of ADEM 335-3-15-.04(1)(g) and (3)(c).

²³ The reference to July 1, 2012 in ADEM 335-3-14-.01 and JCDH Part 19.1.1 has not been approved into the SIP.