San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

April 13, 2026

Mr. Boom Phouthavong
County of Madera - Fairmead Landfill
200 W 4th St
Madera, CA 93637

Re: Notice of Final Action – Title V Permit Renewal
Facility Number: C-2913
Project Number: C-1253614

Dear Mr. Phouthavong:

The District has issued the Final Renewed Title V Permit for County of Madera - Fairmead Landfill (see enclosure). The preliminary decision for this project was made on 2/24/26. No comments were received from the public subsequent to the District's preliminary decision for this project. No comments were received from the EPA subsequent to the District's preliminary decision for this project.

The public notice for issuance of the Final Title V Permit will be posted on the District's website (https://ww2.valleyair.org).

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Errol Villegas, Permit Services Manager, at (559) 230-6000.

Sincerely,

Brian Clements
Director of Permit Services

Enclosures

cc: Courtney Graham, CARB (w/enclosure) via email
cc: EPA Region 9 Air Permitting Manager (w/enclosure) via EPS

Samir Sheikh
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: (661) 392-5500 FAX: (661) 392-5585

www.valleyair.org www.healthyairliving.com

San Joaquin Valley
Air Pollution Control District

FACILITY: C-2913-0-4 **EXPIRATION DATE:** 03/31/2031

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100]
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100]
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/18/2014). [District Rules 2010 and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040]
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/20/24). [District Rules 1070 and 2520] Federally Enforceable Through Title V Permit
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. The 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 a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District 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 request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
23. No person shall manufacture, blend, repackage, supply, market, sell, solicit or apply any architectural coating or colorant with a VOC content in excess of the applicable limits specified in Table 1 (Coatings) and Table 2 (Colorants) of District Rule 4601 (4/16/20), unless exempted under section 4.0 of District Rule 4601 (4/16/20). [District Rule 4601] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

24. All VOC-containing materials subject to Rule 4601 (4/16/20) shall be stored in closed containers when not in use. [District Rule 4601] Federally Enforceable Through Title V Permit

25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (4/16/20). [District Rule 4601] Federally Enforceable Through Title V Permit

26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit

27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit

28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit

29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit

30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit

31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit

32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (9/21/23) or Rule 8011 (8/19/2004). [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit

33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit

34. Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit

35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit

37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit

38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit

39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced) and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

41. On April 30, 2012, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin May 1 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-2913-1-13 **EXPIRATION DATE:** 03/31/2031

EQUIPMENT DESCRIPTION:
MUNICIPAL SOLID WASTE LANDFILL AND LEACHATE/LANDFILL GAS CONDENSATE COLLECTION SYSTEM SERVED BY A 60 MMBTU/HR PERENNIAL ENERGY ENCLOSED LOW-NOX PRIMARY FLARE WITH A 45 MMBTU/HR PERENNIAL ENERGY ENCLOSED BACKUP FLARE WITH UP TO 200 GAS EXTRACTION WELLS

PERMIT UNIT REQUIREMENTS

1. The landfill facility, associated equipment, and surrounding Fairmead Landfill property shall be operated and maintained in such a manner as to prevent the generation of odors which may constitute a nuisance. [District Rule 4102]
2. Air pollution control equipment shall be maintained in good operating condition and shall be operated in accordance with the manufacturer's instructions. [District Rule 4102]
3. Equipment shall be operated in such a manner as to not constitute a nuisance or annoyance to a considerable number of people. [District Rule 4102]
4. Refuse delivery trucks shall be unloaded within two hours after entering the property. [District Rule 4102]
5. Refuse shall not be stockpiled anywhere outside of the designated refuse disposal areas. Trucks waiting their turn to unload within the 2 hour unload time limitation are not considered stockpiled outside the designated refuse disposal areas. [District Rule 4102]
6. All trucks delivering refuse shall be maintained in condition to prevent leakage of solid or liquid material and shall not be leaking solid or liquid material prior to exiting the landfill site. Trucks shall be cleared of any debris to minimize nuisance emissions. [District Rule 4102]
7. The designated refuse disposal areas shall be covered at the end of each operating day and maintained as necessary to prevent the emission of nuisance odors. [District Rule 4102]
8. Permittee shall maintain an updated odor control plan detailing all methods of nuisance odor control as it applies to the facility. The odor control plan shall be made available to all employees and shall be used as a training aid for new employees. The odor control plan shall be made available for District inspection upon request. [District Rule 4102]
9. The District shall have authority to investigate possible odors alleged to originate from the facility and to make a determination of whether or not a nuisance exists, either in response to a complaint or on its own initiative. [District Rules 1070 and 4102] Federally Enforceable Through Title V Permit
10. Composting shall not be performed as part of this expansion of the landfill. If composting is proposed in the future, a new application for an Authority to Construct must be submitted. The CEQA health risk assessment for this expansion must be revised to include the impacts of additional off-road equipment that will operate at the proposed composting site and associated truck traffic if composting or any other operation that would increase off-road equipment emissions or truck traffic on-site is proposed in the future. [California Environmental Quality Act]
11. All new diesel-fueled off-road equipment greater than 25 bhp that will be added in the future beyond what is currently in use shall meet an emission limit of 0.15 g-PM10/bhp-hr. [California Environmental Quality Act]
12. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13. No air contaminant shall be discharged from the flare into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1/4 or 5% opacity. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
14. The District shall be notified in writing ten days prior to the acceptance of new types of waste streams, or waste streams with significant malodorous qualities. [District Rule 4102]
15. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Total Class III waste material rate received at the facility shall not exceed either 1,100 tons/day or 401,500 tons in any rolling 12-month. [District Rule 2201] Federally Enforceable Through Title V Permit
17. The landfill gas collected by the landfill gas collection system shall be controlled by at least one of the following devices: 1) the 60.0 MMBtu/hr primary flare; or 2) the 45 MMBtu/hr backup flare. Each device shall be operated at all times when the collected gas is routed to it. [District Rule 2201, 40 CFR 60.762(b)(2)(iii) and (iv), and 40 CFR 63.1958(f)] Federally Enforceable Through Title V Permit
18. The enclosed flares (the 60.0 MMBtu/hr primary flare and the 45 MMBtu/hr backup flare) shall reduce the inlet VOC/NMOC emissions by at least 98% by weight or reduce the outlet NMOC concentration to less than 20 parts per million by volume, dry basis as hexane at 3% O2. [District Rules 2201 and 4102 and 40 CFR 60.762(b)(2)(iii)(B)] Federally Enforceable Through Title V Permit
19. Emissions from the 60.0 MMBtu/hr primary flare shall not exceed any of the following limits: 0.025 lb-NOx/MMBtu, 0.017 lb-PM10/MMBtu, 0.06 lb-CO/MMBtu, or 0.038 lb-VOC/MMBtu. [District Rules 2201 and 4311] Federally Enforceable Through Title V Permit
20. Emissions from the 45 MMBtu/hr backup flare shall not exceed any of the following limits: 0.05 lb-NOx/MMBtu, 0.02 lb-PM10/MMBtu, or 0.2 lb-CO/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
21. The 45 MMBtu/hr backup flare shall not exceed an annual flare throughput of 90,000 MMBtu/yr. [District Rules 2201 and 4311] Federally Enforceable Through Title V Permit
22. Sulfur content of the landfill gas being combusted in the flares shall not exceed 150 ppmv as H2S. [District Rules 2201 and 4801] Federally Enforceable Through Title V Permit
23. Total PM10 emissions from the handling of soil cover shall not exceed 0.0023 lb-PM10/ton of material handled. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Total soil cover usage rate shall not exceed 3,478 tons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
25. The total VOC emissions from this operation shall not exceed 19,999 pounds per year where total VOC emissions are calculated as follows: Fugitive VOC Emissions From The Landfill + VOC Emissions From The Primary Flare + VOC Emissions From The Backup Flare. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Fugitive VOC Emissions From The Landfill shall be calculated as: 0.25 x the site-wide uncontrolled VOC emissions results. [District Rule 2201] Federally Enforceable Through Title V Permit
27. The site-wide uncontrolled VOC emissions shall be calculated using EPA's Landfill Gas Emissions Model (LandGEM) projected VOC emissions for the following year and the highest landfill gas NMOC concentration from the previous year (using an assumption of 39% of NMOC is VOC). The NMOC concentration shall be determined by collecting and analyzing landfill gas sampled from the common header pipe before the gas moving or condensate removal equipment using the procedures in Method 25 or Method 25C. The sample location on the common header pipe shall be before any condensate removal or other gas refining units. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Annual VOC emissions from the 45 MMBtu/hr backup flare shall be calculated as the larger of the following: (1) 0.75 x the site-wide uncontrolled VOC emissions result x (1 - source tested VOC destruction efficiency); or (2) Source tested VOC concentration in the flare exhaust gas as hexane (ppmv) x annual hours of operation (hr/yr) x 0.237. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

29. Annual VOC emissions from the 60.0 MMBtu/hr primary flare shall be calculated as either of the following: (1) the larger between [0.75 x the site-wide uncontrolled VOC emissions result x (1 - source tested VOC destruction efficiency)] and [source tested VOC concentration in the flare exhaust gas as hexane (ppmv) x annual hours of operation (hr/yr) x 0.237]; or (2) 0.038 (lb/MMBtu) x annual volume of gas combusted in the primary flare (MMscf/year) x higher heating value of landfill gas (Btu/scf); where the heating of value of landfill gas is the measured value during the previous annual test or, alternatively, a default value of 500 Btu/scf may be used. [District Rule 2201] Federally Enforceable Through Title V Permit
30. Calculations to determine the total VOC emissions from this operation and calculation methodology shall be submitted to the District annually. [District Rule 2201] Federally Enforceable Through Title V Permit
31. Source testing shall be conducted using the methods and procedures approved by the District. The District shall be notified at least 30 days prior to any compliance source test, and a source test plan shall be submitted for approval at least 15 days prior to testing. [District Rules 1081 and 2201 and 40 CFR 60.764(d)] Federally Enforceable Through Title V Permit
32. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
33. The following test methods shall be used for VOC (ppmv) - EPA Method 25A or 25B, or ARB Method 100. [District Rule 1081] Federally Enforceable Through Title V Permit
34. Sulfur content of the landfill gas being combusted in the flare shall be determined quarterly using ASTM D 1072, D 3031, D 4084, D 3246, D 6228, or double GC for H2S and mercaptans, or draeger tubes for H2S, or an equivalent method approved by the District. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Source testing of the 60.0 MMBtu/hr primary flare to measure the NOx, CO, and VOC emissions limit and the NMOC destruction efficiency of 98% or the outlet NMOC concentration of no more than 20 ppmvd @ 3% O2 as hexane shall be conducted at least once every 12 months. Source testing of the 45 MMBtu/hr backup flare shall not be required if the unit is not in operation, i.e., the unit need not be started solely to perform source testing. Source testing of the 45 MMBtu/hr backup flare to measure the NOx and CO emission limits and the NMOC destruction efficiency or the outlet NMOC concentration shall be performed within 12 months of operating the unit. [District Rule 2201 and 40 CFR 60.762(b)(2)(iii)(B)] Federally Enforceable Through Title V Permit
36. Source testing for NOx emissions from the 60.0 MMBtu/hr primary flare shall be conducted using EPA Test Method 7E or ARB Method 100. [District Rules 1081 and 4311] Federally Enforceable Through Title V Permit
37. Source testing for NOx emissions from the 45 MMBtu/hr backup flare shall be conducted using EPA Test Method 7E or ARB Method 100. [District Rule 2201] Federally Enforceable Through Title V Permit
38. Source testing for flare CO emissions shall be conducted using EPA Method 10 or ARB Method 100. [District Rule 2201] Federally Enforceable Through Title V Permit
39. Permittee shall calculate the NMOC emission rate for purposes of determining when the gas collection and control system can be removed as provided in 40 CFR 60.762(b)(2)(v) by using the equation found in 40 CFR 60.764(b). [40 CFR 60.764(b)] Federally Enforceable Through Title V Permit
40. For PSD purposes, the NMOC emission rate shall be estimated and compared to the PSD major source and significance levels in 40 CFR 51.166 or 52.21, using AP-42 or EPA-approved procedures. [40 CFR 60.764(c)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

41. For the performance test required in 60.762(b)(2)(iii)(B), Method 25 or 25C (Method 25C may be used at the inlet only) of Appendix A shall be used to determine the 98 weight percent efficiency or the 20 parts per million by volume outlet concentration level, unless another method has been approved by the Administrator as provided by 60.767(c)(2). Method 3, 3A, or 3C shall be used to determine oxygen for correcting the NMOC concentration as hexane to 3 percent. In cases where the outlet concentration is less than 50 ppm NMOC as carbon (8 ppm NMOC as hexane), Method 25A should be used in place of Method 25. Method 18 may be used in conjunction with Method 25A on a limited basis (compound specific, e.g., methane) or Method 3C may be used to determine methane. The methane as carbon should be subtracted from the Method 25A total hydrocarbon value as carbon to give NMOC concentration as carbon. The landowner or operator shall divide the NMOC concentration as carbon by 6 to convert from the CNMOC as carbon to CNMOC as hexane. The following equation shall be used to calculate efficiency: (NMOCin - NMOCout)/NMOCin. [District Rules 1081 and 2201 and 40 CFR 60.764(d)] Federally Enforceable Through Title V Permit

42. The owner or operator shall submit an NMOC emission rate report following the procedure specified in 40 CFR 60.767(i)(2) to the Administrator no later than ninety days after the date of commenced construction, modification, or reconstruction and annually thereafter. The NMOC emission rate report shall contain an annual estimate of the NMOC emission rate calculated using the formula and procedures provided in 40 CFR 60.764(a) or (b), as applicable. [40 CFR 60.767(b)] Federally Enforceable Through Title V Permit

43. The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual emissions. [40 CFR 60.767(b)(2)] Federally Enforceable Through Title V Permit

44. During such time as the gas collection and control system is in operation and in compliance with 40 CFR 63.1958 and 1960, the owner or operator is exempt from the requirements to submit an NMOC emission rate report. [40 CFR 60.762(b)(2)(iv) and 40 CFR 60.767(b)(3)] Federally Enforceable Through Title V Permit

45. The owner or operator shall submit a revised design plan at least 90 days before expanding operations to an area not covered by the previously approved design plan or prior to installing or expanding the gas collection system in a way that is not consistent with the previously approved design plan. [40 CFR 60.767(d)] Federally Enforceable Through Title V Permit

46. The collection and control system as described in the design plan shall meet the design requirements in 40 CFR 60.762(b)(2). 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 40 CFR 60.764, 767, and 768 and 40 CFR 63.1958, 1960, and 1961 proposed by the owner or operator. The collection and control system design plan shall either conform with specifications for active collection systems in 40 CFR 60.769 or include a demonstration to the Administrator's satisfaction of the sufficiency of the alternative provisions to 40 CFR 60.769. The collection and control system design plan shall be prepared and approved by a professional engineer. [40 CFR 60.762(b)(2)(iv) and 40 CFR 60.767(c)] Federally Enforceable Through Title V Permit

47. If the landfill is permanently closed, a closure notification shall be submitted to the Administrator within 30 days of waste disposal cessation. A permanent closure shall take place in accordance with 40 CFR 258.60. If a closure report has been submitted, no additional waste may be placed in the landfill without filing a notification of modification to the Administrator, as described under 40 CFR 60.7(a)(4) and 40 CFR 63.9(b). [40 CFR 60.767(e) and 40 CFR 63.1981(f)] Federally Enforceable Through Title V Permit

48. The owner or operator shall submit an equipment removal report to the Administrator no less than 30 days prior to removal or cessation of operation of the control equipment. The equipment removal shall contain the following: (1) A copy of the closure report; (2) A copy of the initial performance test demonstrating that the 15-year minimum control period has expired, or information that demonstrates that the gas collection and control system will be unable to operate for 15 years due to declining gas flows; and (3) Dated copies of three successive NMOC emission rate reports demonstrating that the landfill is no longer producing 34 Mg or greater of NMOC per year. The Administrator may request additional information if deemed necessary to verify that all conditions for removal have been met. [40 CFR 60.767(f)] Federally Enforceable Through Title V Permit

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49. Within 60 days after the date of completing each performance test (as defined in 40 CFR 60.8), the permittee shall submit the results of each performance test using the Compliance and Emissions Data Reporting Interface (CEDRI) which can be accessed through the EPA's Central Data Exchange (CDX). For data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT website at the time of the test, the permittee shall submit the results of the performance test to the Administrator at the appropriate address listed in 40 CFR 60.4. [40 CFR 60.767(i)] Federally Enforceable Through Title V Permit

50. The owner or operator shall submit the following information to the Administrator annually following the procedures in 40 CFR 60.767(i)(2): 1) Volume of leachate recirculated (gallons per year) and the reported basis of those estimates (records or engineering estimates); 2) Total volume of all other liquids added (gallons per year) and the reported basis of those estimates (records or engineering estimates); 3) Surface area (acres) over which the leachate is recirculated (or otherwise applied); 4) Surface area (acres) over which any other liquids are applied; 5) The total waste disposed (megagrams) in the areas with recirculated leachate and/or added liquids based on on-site records to the extent data are available, or engineering estimates and the reported basis of those estimates; and 6) The annual waste acceptance rates (megagrams per year) in the areas with recirculated leachate and/or added liquids, based on on-site records to the extent data are available, or engineering estimates. [40 CFR 60.767(k)] Federally Enforceable Through Title V Permit

51. The initial leachate recirculation report shall contain items in 40 CFR 60.767(k)(1) through (6) per year for the initial annual reporting period as well as for each of the previous 10 years, to the extent historical data are available in on-site records, and the report shall be submitted no later than specified in 40 CFR 60.767(k)(7). [40 CFR 60.767(k)(7)] Federally Enforceable Through Title V Permit

52. Subsequent annual leachate recirculation reports shall contain items in 40 CFR 60.767(k)(1) through (6) for the 365-day period following the 365-day period included in the previous annual report, and the report shall be submitted no later than 365 days after the date the previous report was submitted. [40 CFR 60.767(k)] Federally Enforceable Through Title V Permit

53. Landfills may cease annual reporting of items in 40 CFR 60.767(k)(1) through (7) once they have submitted the closure report in 40 CFR 60.767(e). [40 CFR 60.767(k)(9)] Federally Enforceable Through Title V Permit

54. Permittee shall keep at least 5 years up-to-date, readily accessible, on-site records of the design capacity report that triggered 40 CFR 60.762(b), the current amount of solid waste in-place, and the year-by-year waste acceptance rate based on a rolling 12-month average. Off-site records may be maintained if they are retrievable within 4 hours. [40 CFR 60.768(a)] Federally Enforceable Through Title V Permit

55. Permittee shall keep at least 5 years up-to-date, readily accessible records for the life of the control system of the maximum expected gas generation flow rate as calculated in 40 CFR 63.1960(a)(1) and the density of wells, horizontal collectors, surface collectors, or other gas extraction devices as determined necessary to achieve comprehensive control of surface gas emissions by a professional engineer. The following issues shall be addressed in the design: Depths of refuse, refuse gas generation rates and flow characteristics, cover properties, gas system expandability, leachate and condensate management, accessibility, compatibility with filling operations, integration with closure end use, air intrusion control, corrosion resistance, fill settlement, resistance to the refuse decomposition heat, ability to isolate individual components or sections for repair or troubleshooting without shutting down entire collection system, landfill gas migration issues and augmentation of the collection system through the use of active or passive systems at the landfill perimeter or exterior. [40 CFR 60.768(b)(1)(ii), 40 CFR 60.769(a)(1) and (2), and 40 CFR 63.1983(b)(1)(i)] Federally Enforceable Through Title V Permit

56. Permittee shall keep at least 5 years up-to-date, readily accessible records of the average combustion temperature in the enclosed flare(s) measured at least every 15 minutes, averaged over the same time period of the performance test, and the percent reduction of NMOC achieved by the enclosed flare(s) as measured during the initial performance test. Records of subsequent tests and monitoring shall be maintained for a minimum of 5 years. Records of the enclosed flare(s) vendor specifications shall be maintained until removal. [40 CFR 60.768(b)(2)] Federally Enforceable Through Title V Permit

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57. Permittee shall keep at least 5 years up-to-date, readily accessible continuous records of the following: (1) All 3-hour periods of operation of the enclosed flare(s) during which the average combustion temperature was more than 28 degrees Celsius below the average combustion temperature at which compliance with the NMOC reduction rate or concentration was determined, (2) The indication of flow to the control system and the indication of bypass flow or records of monthly inspections ensuring the bypass valve is maintained in the closed position, (3) Periods when the collection system or the control device are not operating, (4) The date, time and duration of each startup and/or shutdown period, (5) For each instance where the collection and control system fails to meet an applicable standard, the date, time, duration, the cause of such events, a list of affected sources or equipment, and actions taken to minimize emissions according to 40 CFR 63.1955(c) and any corrective actions taken to return the affected unit to its normal operation, and (6) For the temperature monitoring device and the device that measure flow to the flares or bypass, the written procedures for initial and any subsequent calibration of the devices, determination and adjustment of the calibration drift of the devices, preventative maintenance of the devices (including spare parts), data recording, calculations, and reporting, accuracy audit procedures (including sampling and analysis methods), and program for corrective action for malfunctioning devices. [40 CFR 60.768(c)(1) and (5), 40 CFR 63.1983(c)(2) and (6) through (8), and 40 CFR 63.8(d)(2)] Federally Enforceable Through Title V Permit

58. Permittee shall keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector. For all newly installed collectors the owner shall keep records of the installation date and location of the collector. The owner shall also keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or non-degradable waste excluded from collection as well as any nonproductive areas excluded from collection. [40 CFR 60.768(d)(2) and 40 CFR 63.1983(d)(1)] Federally Enforceable Through Title V Permit

59. Permittee shall keep records of the date upon which the owner or operator started complying with the provisions in 40 CFR 63.1958, 1960, and 1961. [40 CFR 60.768(e)(6)] Federally Enforceable Through Title V Permit

60. Permittee shall keep at least 5 years up-to-date, readily accessible records of all collection and control system monitoring data for parameters measured in 40 CFR 63.1961(a)(1) through (6). [40 CFR 60.762(b)(2)(iv) and 40 CFR 60.768(h)] Federally Enforceable Through Title V Permit

61. Permittee shall keep records of any engineering calculations or company records used to estimate the quantities of leachate or liquids added, surface areas for which the leachate or liquids were applied, and the estimates of annual waste acceptance or total waste in place in areas where leachate or liquids were applied. [40 CFR 60.768(j)] Federally Enforceable Through Title V Permit

62. The operator shall site active collection wells, horizontal collectors, surface collectors, or other extraction devices at a sufficient density throughout all gas producing areas using the procedures specified in the conditions referencing 40 CFR 60.769(a)(1), (2), and (3) in this permit, unless alternative procedures have been approved by the Administrator as provided in 40 CFR 60.767(c)(2) and (3). [40 CFR 60.769(a)] Federally Enforceable Through Title V Permit

63. The collection devices within the interior and along the perimeter areas shall be certified to achieve comprehensive control of surface gas emissions by a professional engineer. The following issues shall be addressed in the design: depths of refuse, refuse gas generation rates and flow characteristics, cover properties, gas system expandability, leachate and condensate management, accessibility, compatibility with filling operations, integration with closure end use, air intrusion control, corrosion resistance, fill settlement, and resistance to the refuse decomposition heat, resistance to the refuse decomposition heat, and ability to isolate individual components or sections for repair or troubleshooting without shutting down entire collection system. [40 CFR 60.769(a)(1)] Federally Enforceable Through Title V Permit

64. The sufficient density of gas collection devices determined in the condition that references 40 CFR 60.769(a)(1) in this permit shall address landfill gas migration issues and augmentation of the collection system through the use of active or passive systems at the landfill perimeter or exterior. [40 CFR 60.769(a)(2)] Federally Enforceable Through Title V Permit

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65. The placement of gas collection devices determined in the condition that references 40 CFR 60.769(a)(1) in this permit shall control all gas producing areas, except as provided in the condition that references 40 CFR 60.769(a)(3)(i) in this permit and the condition that references 40 CFR 60.769(a)(3)(ii) in this permit. [40 CFR 60.769(a)(3)] Federally Enforceable Through Title V Permit

66. Any segregated area of asbestos or non-degradable material may be excluded from collection if documented as specified in the condition that references 40 CFR 60.768(d) in this permit. The documentation shall provide the nature, date of deposition, location and amount of asbestos or non-degradable material deposited in the area, and shall be provided to the District upon request. [40 CFR 60.769(a)(3)(i)] Federally Enforceable Through Title V Permit

67. Any nonproductive area of the landfill may be excluded from control provided that the total of all excluded areas can be shown to contribute less than 1 percent of the total amount of NMOC emissions from the landfill. The amount, location, and age of the material shall be documented and provided to the District upon request. A separate NMOC emissions estimate shall be made for each section proposed for exclusion, and the sum of all such sections must be compared to the NMOC emissions estimate for the entire landfill. Emissions from each section shall be computed using the equation in 40 CFR 60.769(a)(3)(ii)(A). [40 CFR 60.769(a)(3)(ii)] Federally Enforceable Through Title V Permit

68. The values for k and CNMOC in equation in 40 CFR 60.769(a)(3)(ii)(A) determined in field testing shall be used if field testing has been performed in determining the NMOC emission rate or the radii of influence (this distance from the well center to a point in the landfill where the pressure gradient applied by the blower or compressor approaches zero). If field testing has not been performed, the default values for k, Lo, and CNMOC provided in 40 CFR 60.764(a)(1) or the alternative values from 40 CFR 60.764(a)(5) shall be used. The mass of non-degradable solid waste contained within the given section may be subtracted from the total mass of the section when estimating emissions provided the nature, location, age, and amount of the non-degradable material is documented as specified in the condition that references 40 CFR 60.769(a)(3)(i) in this permit. [40 CFR 60.769(a)(3)(iii)] Federally Enforceable Through Title V Permit

69. The permittee shall construct the gas collection devices using the following equipment or procedures: (1) The landfill gas extraction components shall be constructed of polyvinyl chloride (PVC), high density polyethylene (HDPE) pipe, fiberglass, stainless steel, or other nonporous corrosion resistant material of suitable dimensions to: convey projected amounts of gases; withstand installation, static, and settlement forces; and withstand planned overburden or traffic loads. The collection system shall extend as necessary to comply with emission and migration standards. Collection devices such as wells and horizontal collectors shall be perforated to allow gas entry without head loss sufficient to impair performance across the intended extent of control. Perforations shall be situated with regard to the need to prevent excessive air infiltration; (2) Vertical wells shall be placed so as not to endanger underlying liners and shall address the occurrence of water within the landfill. Holes and trenches constructed for piped wells and horizontal collectors shall be of sufficient cross-section so as to allow for their proper construction and completion including, for example, centering of pipes and placement of gravel backfill. Collection devices shall be designed so as not to allow indirect short circuiting of air into the cover or refuse into the collection system or gas into the air. Any gravel used around pipe perforations should be of a dimension so as not to penetrate or block perforations; and (3) Collection devices may be connected to the collection header pipes below or above the landfill surface. The connector assembly shall include a positive closing throttle valve, any necessary seals and couplings, access couplings and at least one sampling port. The collection devices shall be constructed of PVC, HDPE, fiberglass, stainless steel, or other nonporous material of suitable thickness. [40 CFR 60.769(b)] Federally Enforceable Through Title V Permit

70. The permittee shall convey the landfill gas to a control system in compliance with 40 CFR 60.762(b)(2)(iii) through the collection header pipe(s). The gas mover equipment shall be sized to handle the maximum gas generation flow rate expected over the intended use period of the gas moving equipment using the following procedures: (1) For existing collection systems, the flow data shall be used to project the maximum flow rate. If no flow data exists, the procedures in 40 CFR 60.769(c)(2) shall be used; (2) For new collection systems, the maximum flow rate shall be in accordance with 40 CFR 63.1960(a)(1). [40 CFR 60.762(b)(2)(iv) and 40 CFR 60.769(c)] Federally Enforceable Through Title V Permit

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71. Permittee shall design a system of vertical wells, horizontal collectors, or other collection devices, satisfactory to the Administrator, capable of controlling and extracting gas from all portions of the landfill sufficient to meet all operational and performance standards. The collection system shall be operated such that gas is collected from each area, cell, or group of cells in the MSW landfill in which solid waste has been in place for 5 years or more if the area, cell, or group of cells is active or 2 years or more if the area, cell, or group of cells is closed or at final grade. [40 CFR 60.762(b)(2)(iv), 40 CFR 63.1958(a), and 40 CFR 63.1960(a)(2)] Federally Enforceable Through Title V Permit

72. The landfill collection system shall be operated with negative pressure at each wellhead except under the following conditions: 1) A fire or increased wellhead temperature. The owner or operator shall record instances where positive pressure occurs in order to avoid a fire; 2) The use of a geomembrane or synthetic cover. The owner or operator shall develop acceptable pressure limits for these types of covers in their design plan; and 3) A decommissioned well. [40 CFR 60.762(b)(2)(iv), 40 CFR 63.1958(b), and 17 CCR 95464(c)] Federally Enforceable Through Title V Permit

73. Each wellhead in the collection system shall be operated with a landfill gas temperature less than 62.8 degrees Celsius (145 degrees Fahrenheit). The owner or operator may establish a higher operating temperature at a particular well. A higher operating temperature request shall be submitted to the Administrator for approval and shall include supporting data demonstrating that the elevated parameter neither causes fires nor significantly inhibits decomposition by killing methanogens. The demonstration shall satisfy both of these criteria in order to be approved. [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1958(c)] Federally Enforceable Through Title V Permit

74. The collection system shall be operated such that the methane concentration is less than 500 parts per million above background at the surface of the landfill. The following procedures shall be implemented on a quarterly basis: (1) The operator shall monitor surface concentrations of methane along the entire perimeter of the collection area and along a pattern that traverses the landfill at no more than 30 meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. The operator may establish an alternative traversing pattern that ensures equivalent coverage with prior approval from the District. A surface monitoring design plan shall be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30-meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing, (2) The background concentration shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells, and (3) Surface emission monitoring shall be performed in accordance with section 8.3.1 of EPA Method 21 of 40 CFR Part 60, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions. [40 CFR 60.8, 40 CFR 60.762(b)(2)(iv), 40 CFR 63.1958(d)(1), and 40 CFR 63.1960(c)] Federally Enforceable Through Title V Permit

75. Permittee shall conduct surface testing using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in the condition that references Section 63.1960(d) in this permit. Surface testing shall be conducted at all cover penetrations. Any reading of 500 ppm or more above background at any location shall be recorded as a monitored exceedance. An exceedance is not a violation of the surface methane operational standard if the following actions are taken: (1) The owner or operator shall determine the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters. The coordinates shall be in decimal degrees with at least five decimal places, (2) For each exceedance, cover maintenance or adjustments shall be made to the vacuum of the adjacent wells to increase the gas collection in the vicinity of the exceedance. The location shall be re-monitored within 10 days of detecting the exceedance, (3) If the re-monitoring of the location shows a methane concentration less than 500 ppm methane above background concentration, the location shall be re-monitored 1 month from the initial exceedance, and (4) If the re-monitoring shows a second exceedance, additional corrective action shall be taken and the location shall be re-monitored again within 10 days of the second exceedance. If the re-monitoring shows a third exceedance, a new well or other collection device shall be installed within 120 days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the Administrator for approval. [40 CFR 60.8, 40 CFR 60.762(b)(2)(iv), 40 CFR 63.1958(d)(2), and 40 CFR 63.1960(c)(4)] Federally Enforceable Through Title V Permit

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76. In the event that the collection or control system becomes inoperable, the gas mover equipment (as defined in 40 CFR 63.1990) shall be shut down and all valves in the collection and control system contributing to venting of landfill gas to the atmosphere shall be closed within one hour. Efforts to repair the collection or control system shall be initiated and completed in a manner such that downtime is kept at a minimum, and the collection and control system shall be returned to operate. [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1958(e)] Federally Enforceable Through Title V Permit

77. A monitored exceedance of the operational requirements for wellhead pressure, wellhead temperature, or surface methane concentration shall not be deemed a deviation if the required corrective action(s), as required by this permit, are completed within the timelines as required by this permit. [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1958(g)] Federally Enforceable Through Title V Permit

78. The NMOC emission rate shall be calculated using the equation in 40 CFR 63.1959(a)(1)(i), if the actual year-to-year solid waste acceptance rate is known or the equation in 40 CFR 63.1959(a)(1)(ii), if the actual year-to-year solid waste acceptance rate is unknown. The values for k, Lo, and CNMOC for both equations shall be taken from 40 CFR 63.1959(a)(1), as appropriate. Both equations may be used if the actual year-to-year acceptance rate is known for a part of the landfill life, but unknown for another part of the landfill life. The mass of non-degradable solid waste may be subtracted from the average annual acceptance rate when calculating Mi, if documentation of the nature and amount of such wastes is maintained. [40 CFR 63.1959(a)(1)] Federally Enforceable Through Title V Permit

79. If the NMOC emission rate calculated in 40 CFR 63.1959(a)(1) is less than 50 megagrams/year, then the landfill owner or operator shall submit an NMOC emission rate report according to 40 CFR 63.1981(c) and shall recalculate the NMOC mass emission rate annually as required under 40 CFR 63.1959(b). [40 CFR 63.1959(a)(2)(i) and 63.1959(b)(1)] Federally Enforceable Through Title V Permit

80. If the NMOC emission rate calculated in 40 CFR 63.1959(a)(1) is equal to or greater than 50 megagrams/year, then the landfill owner or operator shall either: (A) Submit a gas collection and control system design plan within 1 year as specified in 40 CFR 63.1981(d) and install and operate a gas collection and control system within 30 months of the first annual report in which the NMOC emission rate equals or exceeds 50 Mg/yr, according to 40 CFR 63.1959(b)(2)(ii) and (iii); (B) Determine a site-specific NMOC concentration and recalculate the NMOC emission rate using the Tier 2 procedures provided in 40 CFR 63.1959(a)(3); or (C) Determine a site-specific methane generation rate constant and recalculate the NMOC emission rate using the Tier 3 procedures provided in 40 CFR 63.1959(a)(4). [40 CFR 63.1959(a)(2)(ii)] Federally Enforceable Through Title V Permit

81. Tier 2 specifications to determine the site-specific NMOC concentration shall include the following: 1) For sampling, at least 2 sample probes shall be installed per hectare of landfill surface that has retained waste for at least 2 years, up to a maximum of 50 required probes. Probes should be located in known areas of degradable solid waste. One sample of landfill gas shall be collected from each probe to determine the NMOC concentration, using EPA Method 25, 25C, or another method approved by the EPA. If composite sampling is used, equal sample volumes are required. All samples taken shall be used in the analysis. The NMOC concentration from Method 25 or 25C shall be divided by 6 to convert from C-NMOC, as carbon to as hexane. 2) For landfills equipped with active collection systems, samples may be collected from the common header pipe before gas moving or condensate removal equipment; a minimum of 3 samples shall be collected. [40 CFR 63.1959(a)(3) and (5)] Federally Enforceable Through Title V Permit

82. Tier 2 specifications to determine the site-specific NMOC concentration shall include the following: Within 60 days after the date of completing each performance test (as defined in 40 CFR 63.7), the owner or operator shall submit the results according to 40 CFR 63.1981(l)(1); and the NMOC mass emission rate shall be recalculated using the average site-specific concentration, instead of the default value. [40 CFR 63.1959(a)(3)(i) and (ii)] Federally Enforceable Through Title V Permit

83. If the calculated NMOC mass emission rate, using the site-specific NMOC concentration, is less than 50 megagrams/year, then a periodic estimate of the emission rate report, pursuant to 40 CFR 63.1981(c) shall be submitted to the Administrator, and the NMOC Mass emission rate shall be recalculated annually as required under 40 CFR 63.1959(b). The site-specific NMOC concentration shall be retested every 5 years, using Tier 2 specifications. [40 CFR 63.1959(a)(3)(iii)] Federally Enforceable Through Title V Permit

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84. If the calculated NMOC mass emission rate, using the site-specific NMOC concentration, is equal to or greater than 50 megagrams/year, the landfill owner or operator shall either: (A) Submit a gas collection and control system design plan within 1 year as specified in 40 CFR 63.1981(d) and install and operate a gas collection and control system within 30 months according to 40 CFR 63.1959(b)(2)(ii) and (iii); or (B) Determine a site-specific methane generation rate constant and recalculate the NMOC emission rate using the site-specific methane generation rate using the Tier 3 procedures specified in 40 CFR 63.1959(a)(4). [40 CFR 63.1959(a)(3)(iv)] Federally Enforceable Through Title V Permit

85. Tier 3 specifications to determine the site-specific methane generation rate constant shall include the following: 1) EPA Method 2E or another method approved by the EPA shall be used, and 2) The NMOC mass emission rate shall be recalculated using the average site-specific NMOC concentration and the site-specific methane generation rate constant k, instead of the default values in 40 CFR 63.1959(a)(1). The landfill owner or operator shall compare the resulting NMOC mass emission rate to the standard of 50 Mg/yr. [40 CFR 63.1959(a)(4)] Federally Enforceable Through Title V Permit

86. If the NMOC mass emission rate as calculated using the Tier 2 site-specific NMOC concentration and Tier 3 site-specific methane generation rate is equal to or greater than 50 megagrams/year, the landfill owner or operator shall submit a gas collection and control system design plan within 1 year as specified in 40 CFR 63.1981(d) and install and operate a gas collection and control system within 30 months of the first annual report in which the NMOC emission rate equals or exceeds 50 Mg/yr, according to 40 CFR 63.1959(b)(2)(ii) and (iii). [40 CFR 63.1959(a)(4)(i)] Federally Enforceable Through Title V Permit

87. If Tier 3 specifications are used to determine the site-specific methane generation rate and the calculated NMOC mass emission rate is less than 50 megagrams/year, then the owner or operator shall recalculate the NMOC mass emission rate annually using Equation 1 or Equation 2 in 40 CFR 63.1959(a)(1) and using the site-specific Tier 2 NMOC concentration and Tier 3 methane generation rate constant and submit a periodic NMOC emission rate report as provided in 40 CFR 63.1981(c). 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. [40 CFR 63.1959(a)(4)(ii)] Federally Enforceable Through Title V Permit

88. Permittee shall monitor gauge pressure in the gas collection header applied to each individual well on a monthly basis. If positive pressure exists, action shall be initiated to correct the exceedance within 5 days, except under the conditions when positive pressure is allowed as provided in the condition that references 40 CFR 63.1958(b) in this permit. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. If negative pressure cannot be achieved without excess air infiltration within 15 days of the initial exceedance, the owner or operator shall conduct a root cause analysis and correct the exceedance as soon as practicable, but no later than 60 days after the initial exceedance. If corrective actions cannot be completed within 60 days following the initial exceedance, the owner or operator shall also conduct a corrective action analysis and develop an implementation schedule to complete the necessary corrective action(s) as soon as practicable but no more than 120 days following the initial exceedance. [40 CFR 60.762(b)(2)(iv), 40 CFR 63.1960(a)(3), and 40 CFR 63.1961(a)(1)] Federally Enforceable Through Title V Permit

89. Permittee shall monitor each well monthly for temperature for the purpose of identifying whether excess air infiltration exists. If a well exceeds 62.8 degrees Celsius action shall be initiated within 5 days to correct the exceedance. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. If a landfill gas temperature less than or equal to 62.8 degrees Celsius cannot be achieved within 15 days of the initial exceedance, the owner or operator shall conduct a root cause analysis and correct the exceedance as soon as practicable, but no later than 60 days after the initial exceedance. If corrective actions cannot be completed within 60 days following the initial exceedance, the owner or operator shall also conduct a corrective action analysis and develop an implementation schedule to complete the necessary corrective action(s) as soon as practicable, but no more than 120 days following the initial exceedance. If the landfill gas temperature measured at the wellhead or at any point in the well is greater than 76.7 degrees Celsius (170 degrees Fahrenheit) and the carbon monoxide concentration is greater than or equal to 1,000 ppmv the corrective action(s) for the wellhead temperature standard shall be completed within 15 days of the exceedance. [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1960(a)(4)] Federally Enforceable Through Title V Permit

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90. Permittee shall initiate enhanced monitoring at each wellhead with a measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit). Enhanced monitoring shall consist of the following: (1) Visual observations for subsurface oxidation events (smoke, smoldering ash, damage to well) within the radius of influence of the well; (2) Oxygen concentration monitoring using a portable gas composition monitor or an oxygen meter as provided in the conditions that reference 40 CFR 63.1961(a)(2) in this permit; (3) Landfill gas temperature monitoring at the wellhead as provided in the condition that references 40 CFR 63.1961(a)(4) in this permit; (4) Landfill gas temperature monitoring every 10 vertical feet of the well using a temperature measuring device as provided in the condition that references 40 CFR 63.1961(a)(6) in this permit; (5) Methane concentration monitoring with a methane meter using EPA Method 3C of appendix A-6 to 40 CFR Part 60, EPA Method 18 of appendix or a portable gas composition analyzer provided that the analyzer is calibrated and meets all the quality assurance and quality control requirements for EPA Method 3C or EPA Method 18; and (6) Carbon monoxide concentration monitoring as provided in the condition that references 40 CFR 63.1961(a)(5)(vi) in this permit. [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1961(a)(5)] Federally Enforceable Through Title V Permit

91. Carbon monoxide concentration monitoring shall be conducted by sampling directly from the wellhead using EPA Method 10 of appendix A-4 to 40 CFR Part 60, an equivalent method with a detection limit of at least 100 ppmv of carbon monoxide in high concentrations of methane, or by collecting the sample from the well head sampling port in a passivated canister or multi-layer foil gas sampling bag and analyzing that sample using EPA Method 10 of appendix A-4 to 40 CFR Part 60. When sampling directly from the wellhead, the owner or operator shall sample for 5 minutes plus twice the response time of the analyzer. When collecting samples in a passivated canister or multi-layer foil gas sampling bag, the owner or operator shall sample for the period of time needed to assure that enough sample is collected to provide 5 consecutive, 1-minute samples during the analysis of the canister or bag contents, but no less than 5 minutes plus twice the response time of the analyzer. The owner or operator shall record all values measured to determine carbon monoxide concentration and the 5 consecutive, 1-minute averages shall be averaged to provide the carbon monoxide concentration value from the wellhead. [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1961(a)(5)(vi)] Federally Enforceable Through Title V Permit

92. Permittee shall begin enhanced monitoring no later than 7 calendar days after the first measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit). The enhanced monitoring shall be conducted on a weekly basis. If four consecutive weekly carbon monoxide readings are under 100 ppmv, then enhanced monitoring may be decreased to a monthly basis. If a monthly carbon monoxide reading exceeds 100 ppmv, the owner or operator shall return to weekly monitoring. The owner or operator may cease enhanced monitoring once a higher operating temperature is approved or once the measured landfill gas temperature is less than or equal to 62.8 degrees Celsius (145 degrees Fahrenheit). [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1961(a)(5)] Federally Enforceable Through Title V Permit

93. Permittee shall place each well or design component as specified in the approved design plan as provided in 40 CFR 60.767(c). Each well shall be installed no later than 60 days after the date on which the initial solid waste has been in place for 5 years or more if active or 2 years or more if closed or at final grade. [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1960(b)] Federally Enforceable Through Title V Permit

94. Permittee shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis. [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1960(c)(5)] Federally Enforceable Through Title V Permit

95. Permittee shall comply with the following specifications and procedures for surface methane monitoring: (1) The portable analyzer shall meet the instrument specifications provided in section 6 of EPA Method 21 of appendix A of 40 CFR Part 60, except that "methane" replaces all references to "VOC," (2) The calibration gas shall be methane, diluted to a nominal concentration of 500 ppm in air, (3) The instrument evaluation procedures of section 8.1 of EPA Method 21 of appendix A of 40 CFR Part 60 shall be used, and (4) The calibration procedures provided in sections 8 and 10 of EPA Method 21 of appendix A of 40 CFR Part 60 shall be followed immediately before commencing a surface monitoring survey. [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1960(d)] Federally Enforceable Through Title V Permit

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96. The collection and control system shall comply with all applicable provisions of 40 CFR 63 Subpart AAAA at all times including startup, shutdown, and malfunction, and the SSM requirements of the General Provisions of 40 CFR 63, Subpart A do not apply. During periods of startup, shutdown, or malfunction the permittee shall comply with the work practice requirement specified in the condition that references 40 CFR 63.1958(e) in this permit in lieu of complying with the conditions that reference provisions of 40 CFR 63.1960 in this permit. [40 CFR 60.762(b)(2)(iv), 40 CFR 63.1930(b), and 40 CFR 63.1960(e)(2)] Federally Enforceable Through Title V Permit

97. Permittee shall install a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements at each well head. [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1961(a)(2)] Federally Enforceable Through Title V Permit

98. Permittee shall monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis. [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1961(a)(2)] Federally Enforceable Through Title V Permit

99. Nitrogen concentration in the landfill gas shall be determined using EPA Method 3C of appendix A-2 to 40 CFR Part 60, or an alternative method approved by the District and EPA. Oxygen concentration in the landfill gas shall be determined using a portable gas composition analyzer or an oxygen meter. When using a portable gas analyzer, the analyzer shall be calibrated and meet all quality assurance and quality control requirements for EPA Method 3A of appendix A-2 to 40 CFR Part 60 or ASTM D6522-11. When using an oxygen meter, the meter shall use EPA Method 3A or 3C of appendix A-2 to 40 CFR Part 60 or ASTM D6522-11 except that: (1) The span shall be set between 10- and 12-percent oxygen, (2) A data recorder is not required, (3) Only two calibration gases are required, a zero and span, (4) A calibration error check is not required, and (5) The allowable sample bias, zero drift, and calibration drift are plus or minus 10 percent. [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1961(a)(2)] Federally Enforceable Through Title V Permit

100. For the temperature measuring device used to monitor landfill gas temperature, the owner or operator shall calibrate the temperature measuring device annually using the procedure in Section 10.3 of EPA Method 2 of appendix A-1 to 40 CFR Part 60. [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1961(a)(3) and (4)] Federally Enforceable Through Title V Permit

101. For each well head with a measurement of landfill gas temperature greater than or equal to 73.9 degrees Celsius (165 degrees Fahrenheit), permittee shall annually monitor the temperature of the landfill gas every 10 vertical feet of the well. Temperature can be monitored either with a removable thermocouple, or using thermocouples installed every 10 vertical feet of the well. [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1961(a)(6)] Federally Enforceable Through Title V Permit

102. For the flares, permittee shall install, calibrate, maintain, and operate temperature monitoring device(s) equipped with a continuous recorder. The temperature monitoring device shall have a minimum accuracy of plus or minus 1% of the temperature being measured expressed in degrees Celsius or plus or minus 0.5 degrees Celsius, whichever is greater. [District Rule 2201, 40 CFR 60.762(b)(2)(iv), and 40 CFR 63.1961(b)(1)] Federally Enforceable Through Title V Permit

103. Permittee shall install, calibrate, maintain, and operate a device that records flow to or bypass of the control device. This device may be a meter that measures and records the landfill gas flow rate into the flare at least once every 15 minutes, and is also capable of measuring the landfill gas flow rate that might bypass the flare in the event of equipment malfunction or maintenance. Alternatively, this device may secure the bypass line valve in the closed position and shall be inspected at least once every month to ensure that the valve is maintained in the closed position. [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1961(b)(2)] Federally Enforceable Through Title V Permit

104. If the landfill is closed, as defined in 40 CFR 63.1990, and the landfill has no monitored exceedances of the surface methane operational standard in three consecutive quarterly monitoring periods, permittee may change surface methane concentration monitoring to an annual basis. Any methane reading of 500 ppm or more above background detected during annual monitoring returns the frequency for that landfill back to quarterly monitoring. [40 CFR 60.762(b)(2)(iv) and 40 CFR 63.1961(f)] Federally Enforceable Through Title V Permit

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105. SEMI-ANNUAL REPORTING FOR NESHAP (AAAA): Permittee shall submit a semi-annual report every 6 months to the Administrator. The semi-annual report shall include the following: (1) Number of times the collection system is operated with a positive pressure, number of times the monitored landfill gas temperature exceeds 62.8 degrees Celsius (145 degrees Fahrenheit), number of times the surface methane concentration is equal to or exceeds 500 ppm above background, a description of all periods when the control system is not operating, and the date, time, and duration of each of these instances, (2) Description and duration of all periods when the landfill gas stream is diverted from the control device through a bypass line, (3) All periods when the collection system was not operating, (4) Location of each exceedance of the 500-ppm surface methane operational standard with the accuracy provided in the condition that references 40 CFR 1958(d) in this permit and the concentration recorded at the location of the exceedance in the previous month, (5) The date of installation and location of each well or collection system expansion added, (6) Any corrective action analysis, root cause analysis and corresponding implementation schedule as required for exceedances of the landfill gas temperature operational standard, and (7) For enhanced monitoring activities as provided in the conditions that reference 40 CFR 63.1961(a)(5) in this permit, the date, time, staff person name, a description of findings for each visual observation for subsurface oxidation event, and well identifier along with the value and units of measure of oxygen concentration, temperature, methane concentration, carbon monoxide concentration, and a summary trend analysis for each well to chart weekly readings of the monitored parameters. [40 CFR 63.1960(a)(3)(i)(B) and 40 CFR 63.1981(h)] Federally Enforceable Through Title V Permit

106. Permittee shall submit a notification to the Administrator as soon as practicable, but no later than 75 days after the initial exceedance for corrective action(s), as required by this permit, that are not completed within 60 days of the initial exceedance. If corrective actions are expected to take longer than 120 days to complete after the initial exceedance, the owner or operator shall submit the root cause analysis, corrective action analysis and corresponding implementation schedule to the Administrator as soon as practicable but no later than 75 days after the initial exceedance. [40 CFR 63.1960(a)(3)(i)(C), 40 CFR 63.1960(a)(4)(i)(C), and 40 CFR 63.1981(j)] Federally Enforceable Through Title V Permit

107. When landfill gas temperature measured at either the wellhead or at any point in the well is greater than or equal to 76.7 degrees Celsius (170 degrees Fahrenheit) and the carbon monoxide concentration is greater than or equal to 1,000 ppmv then the operator shall report the date, time, well identifier, temperature and carbon monoxide reading to the District via email within 24 hours of the measurement unless a higher operating temperature has been approved by the Administrator. [40 CFR 63.1981(k)] Federally Enforceable Through Title V Permit

108. Permittee shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the surface methane operational standard, the operational standard for wellhead temperature of landfill gas, and wellhead pressure operational standard. For each exceedance, the operator shall record the reading in the subsequent month, whether or not the second reading is an exceedance, and the location of each exceedance. For any root cause analysis as required by this permit, the owner or operator shall keep the following as applicable: a record of the root cause analysis conducted, the corrective action analysis, a description of the recommended corrective action(s) taken, the date(s) the corrective action(s) were completed, for corrective action(s) not already completed, a schedule of implementation including a schedule of proposed commencement and completion dates, and a copy of any comments or final approval on the corrective action analysis or schedule from the Administrator. [40 CFR 63.1983(e)] Federally Enforceable Through Title V Permit

109. Permittee shall keep for at least 5 years an up-to-date, readily accessible records of the 24-hour high temperature report email transmission as required by this permit, temperature monitoring values greater than 62.8 degrees Celsius, each wellhead nitrogen level at or above 20 percent, each wellhead oxygen level at or above 5 percent, and all enhanced monitoring activities as required by this permit. [40 CFR 63.1983(e)(2)] Federally Enforceable Through Title V Permit

110. Permittee shall keep records of the landfill gas temperature monitored at each wellhead on a monthly basis and records of enhanced monitoring data at each well with a measurement of landfill gas temperature greater than 62.8 degrees Celsius. [40 CFR 63.1983(h)] Federally Enforceable Through Title V Permit

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111. "Deviation" means any situation in which an emissions unit fails to meet any requirement or obligation established by conditions in this permit or the applicable requirements of underlying regulations including but not limited to any emission limit, operating limit, or work practice requirement. A deviation is not always a violation. A deviation can be determined by observation or through review of data obtained from any testing, monitoring, or record keeping established in accordance with 40 CFR 70.6(a)(3)(i) and (ii). For a situation lasting more than 24 hours, each 24-hour period is considered a separate deviation. Included in the meaning of deviation are any of the following: "Exceedance" shall have the same meaning as "Deviation". An exceedance is not always a violation and an exceedance which is a violation shall be determined according to the applicable provisions of 40 CFR Part 60, Subpart XXX and 40 CFR Part 63 Subpart AAAA. [40 CFR 70.6(a)(3)(iii) and 40 CFR 63.1990] Federally Enforceable Through Title V Permit

112. Gas collection system shall be operated in a manner which maximizes the amount of landfill gas extracted while preventing overdraw that can cause fires or damage the gas collection system. [District Rule 2201] Federally Enforceable Through Title V Permit

113. During maintenance of the gas collection system or incineration device, emissions of landfill gas shall be minimized during shutdown. [District Rules 2020 and 2201] Federally Enforceable Through Title V Permit

114. Maintenance is defined as work performed on a gas collection system and/or control device in order to ensure continued compliance with District rules, regulations, and/or Permits to Operate, and to prevent its failure or malfunction. [District Rule 2201] Federally Enforceable Through Title V Permit

115. The permittee shall notify the APCO by telephone at least 24 hours before performing any maintenance work that requires the system to be shutdown. The notification shall include a description of work, the date work will be performed and the amount of time needed to complete the maintenance work. [District Rule 2201] Federally Enforceable Through Title V Permit

116. Landfill gas line from collection header shall be equipped with a gas flow rate measurement device. [District Rule 2201] Federally Enforceable Through Title V Permit

117. A non-resettable, totalizing mass or volumetric landfill gas fuel flow meter, or other APCO approved alternative, to measure the amount of gas combusted in each enclosed flare shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit

118. Sampling ports adequate for sulfur testing shall be provided in the landfill gas manifold line to the flares. [District Rule 1081] Federally Enforceable Through Title V Permit

119. Flame(s) shall be present at all times when combustible gases are combusted through the flares. [District Rule 4311] Federally Enforceable Through Title V Permit

120. The flare outlets shall be equipped with automatic ignition system(s), or shall operate with pilot flame(s) present at all times when combustible gases are combusted through the flares, except during purge periods for automatic-ignition equipped flares. [District Rule 4311] Federally Enforceable Through Title V Permit

121. Unless the flares are equipped with flow-sensing ignition system(s), the flares shall be equipped and operated with heat sensing device(s) such as thermocouple(s), ultraviolet beam sensor(s), infrared sensor(s), or equivalent device(s), capable of continuously detecting at least one pilot flame. [District Rule 4311] Federally Enforceable Through Title V Permit

122. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. [District Rule 4311] Federally Enforceable Through Title V Permit

123. The operator shall monitor the gas flow sent to the 45 MMBtu/hr backup flare with a flow-measuring device or other parameters as specified in this permit. The operator shall determine the heating value (Btu per cubic foot) of the flared gas annually in accordance with Section 6.3.6 of Rule 4311 (12/17/20). The operator shall maintain records pursuant to Section 6.1.7 of Rule 4311 (12/17/20). [District Rules 2201 and 4311] Federally Enforceable Through Title V Permit

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124. ANNUAL REPORTING FOR RULE 4311: The owner or operator shall submit an annual monitoring report (in an electronic format approved by the District) to the District within 30 days following the end of each calendar year. The report shall include the following: (1) The total volumetric flow of flared gas in standard cubic feet for each day for the previous year; (2) For any pilot and purge gas used, the type of gas used, the volumetric flow for each day and for each month, and the means used to determine flow, as applicable pursuant to Section 6.7 of Rule 4311 (12/17/20); (3) Flare monitoring system downtime periods, including dates and times, as applicable pursuant to Section 6.9 of Rule 4311 (12/17/20); (4) A flow verification report for each flare subject to this rule. The flow verification report shall include flow verification testing pursuant to Section 6.3.5 of Rule 4311 (12/17/20); and (5) For flares subject to the annual throughput thresholds specified in Table 2, include the annual throughput in MMBtu for the previous calendar year. [District Rule 4311] Federally Enforceable Through Title V Permit

125. Total hydrocarbon content and methane content of flared gas shall be determined using ASTM Method D1945-96, ASTM Method UOP 539-97, EPA Method 18, or EPA Method 25A or 25B. [District Rule 4311] Federally Enforceable Through Title V Permit

126. Hydrogen sulfide content of flared gas shall be determined using ASTM Method D1945-96, ASTM Method UOP 539-97, ASTM Method D4084-94, or ASTM Method D4810-88. [District Rules 1081, 2201, and 4311] Federally Enforceable Through Title V Permit

127. Flared gas flow shall be determined using one or more of the following methods, or by any alternative method approved by the APCO, ARB, and EPA: (1) EPA Methods 1 and 2; (2) Tracer gas dilution or velocity; or (3) Other flow monitors or process monitors that can provide comparison data on a vent stream that is being directed past the ultrasonic flow meter. [District Rule 4311] Federally Enforceable Through Title V Permit

128. The higher heating value (HHV) of the gas flared shall be determined annually using ASTM D1826-88, ASTM D1945-81 in conjunction with ASTM D3588-89; alternately, an operator may elect to use a default heating value of 500 Btu/scf from Table 4 of District Rule 4311 (12/17/20). [District Rules 2201 and 4311] Federally Enforceable Through Title V Permit

129. The operator shall monitor the volumetric flows of purge and pilot gases with flow measuring devices or other parameters as specified on the Permit to Operate so that volumetric flows of pilot and purge gas may be calculated based on pilot design and the parameters monitored. [District Rule 4311] Federally Enforceable Through Title V Permit

130. For the 60.0 MMBtu/hr primary flare, periods of flare monitoring system inoperation greater than 24 continuous hours shall be reported by the following working day, followed by notification of resumption of monitoring. Periods of inoperation of monitoring equipment shall not exceed 14 days per any 18-consecutive-month period. Periods of flare monitoring system inoperation do not include the periods when the system feeding the flares is not operating. [District Rule 4311] Federally Enforceable Through Title V Permit

131. For the 60.0 MMBtu/hr primary flare, operator shall maintain and calibrate all required monitors and recording devices in accordance with the applicable manufacturer's specifications. In order to claim that a manufacturer's specification is not applicable, the person responsible for emissions shall have, and follow, a written maintenance policy that was developed for the device in question. The written policy shall explain and justify the difference between the written procedure and the manufacturer's procedure. [District Rule 4311] Federally Enforceable Through Title V Permit

132. For the 60.0 MMBtu/hr primary flare, all flow monitoring data shall be continuously recorded by an electronic data acquisition system capable of one-minute averages. Flow monitoring data shall be recorded as one-minute averages. [District Rule 4311] Federally Enforceable Through Title V Permit

133. If the facility accepts contaminated soil for disposal, source sampling to determine the compliance status of an emissions source shall be witnessed or authorized by District personnel. [District Rule 4651] Federally Enforceable Through Title V Permit

134. If the facility accepts contaminated soil for disposal, the operator of the facility shall maintain a copy of the source test protocol. A copy of the source test results shall be maintained for at least five years and be readily available to the APCO upon written or oral request. [District Rule 4651] Federally Enforceable Through Title V Permit

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135. If the facility accepts contaminated soil for disposal, one composite sample shall be collected and analyzed for VOC for every 50 cubic yards of excavated soil that has been determined to be uncontaminated by the test method(s) specified in this permit. At least one (1) composite sample shall be collected from each storage pile within 12 hours of soil decontamination. [District Rule 4651] Federally Enforceable Through Title V Permit

136. If the facility accepts contaminated soil for disposal, a composite sample shall consist of one sample taken from the center of each of four (4) equal sectors using the procedures specified in this permit. [District Rule 4651] Federally Enforceable Through Title V Permit

137. If the facility accepts contaminated soil for disposal, samples shall be taken from at least twelve (12) inches below the surface of the pile using a driven-tube type sampler, capped and sealed with inert materials, and extruded in the lab in order to reduce the loss of volatile materials; or by using a clean brass or stainless steel tube (at least twelve (12) inches long) driven into the soil with a suitable instrument. The ends of the brass tube shall then be covered with aluminum foil, then plastic end caps, and finally wrapped with a suitable tape. The samples shall then be immediately placed on ice, or dry ice, for transport to a laboratory. [District Rule 4651] Federally Enforceable Through Title V Permit

138. If the facility accepts contaminated soil for disposal, the initial boiling point of a liquid from samples of contaminated soil shall be measured in accordance with ASTM D86 for soil contaminated with petroleum liquid or ASTM D-1078 for soil contaminated with known organic chemical. [District Rule 4651] Federally Enforceable Through Title V Permit

139. If the facility accepts contaminated soil for disposal, the VOC concentration of soils shall be measured as hexane using an organic vapor analyzer, complying with EPA Reference Method 21. [District Rule 4651] Federally Enforceable Through Title V Permit

140. If the facility accepts contaminated soil for disposal, the VOC content of the soil that can be reasonably demonstrated to be contaminated only with petroleum shall be determined by using EPA Reference Method 8015 or EPA Test Method 25D. [District Rule 4651] Federally Enforceable Through Title V Permit

141. If the facility accepts contaminated soil for disposal, the VOC content of soil that is contaminated by unknown VOC-containing liquids, or that cannot be reasonably demonstrated to be contaminated only with petroleum, shall be determined by using EPA Reference Method 8015 or EPA Test Method 25D. In addition to one of the aforementioned methods, the operator shall use EPA Reference Method 8260B or the gas chromatographic method in the Leaking Underground Fuel Tank (LUFT) Manual (October 1989). [District Rule 4651] Federally Enforceable Through Title V Permit

142. If the facility accepts contaminated soil for disposal, an operator may use an equivalent alternative test method other than those listed if APCO and EPA approval has been obtained. [District Rule 4651] Federally Enforceable Through Title V Permit

143. If the facility accepts contaminated soil for disposal, when more than one test method or set of test methods is specified for any testing, a violation of any requirement of this rule established by any one of the specified test methods or set of test methods shall constitute a violation of this permit. [District Rule 4651] Federally Enforceable Through Title V Permit

144. If the facility accepts contaminated soil for disposal, the permittee shall comply with the following when excavating contaminated soil: 1) Submit a written notice according to Section 6.1 prior to commencement of excavation of known contaminated soil; 2) Monitor operation for VOC contamination at least once every 15 minutes unless the excavated soil is treated according to Section 5.2.1; 3) Excavated soil that has been detected as contaminated shall be placed in storage piles or handled as required by Section 5.2 and; 4) Excavated contaminated soil shall be decontaminated, recycled, disposed of in an approved facility, returned to excavation and permanently covered with at least six (6) inches of uncontaminated soil, or transported to a location outside of the SJVAB within thirty (30) calendar days from the time of excavation or as directed by an authorized health officer, agricultural commissioner, fire protection officer, or other authorized state or local government officer having jurisdiction. [District Rule 4651] Federally Enforceable Through Title V Permit

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145. If the facility accepts contaminated soil for disposal, when handling excavated contaminated soil with VOC concentration measuring at 1,000 ppm or greater, the contaminated soil shall be sprayed with water or vapor suppressant and contaminated soil placed in sealed containers as soon as possible, but no more than 30 minutes after excavation, and handle pursuant to Section 5.1.4, or the contaminated soil loaded into trucks as soon as possible but no more than 30 minutes after excavation, moisten with additional water, cover as required in Section 5.3, and transport immediately to an approved facility, or implement other approved alternative storage methods and handle pursuant to Section 5.1.4. [District Rule 4651] Federally Enforceable Through Title V Permit

146. If the facility accepts contaminated soil for disposal, when handling storage piles of contaminated soil the piles shall be clearly isolated and identifiable from storage piles of uncontaminated soil. The following is required for identification: 1) Location of the storage pile. 2) Unique identification of the storage pile. 3) The date that the storage pile was excavated. 4) Any other information deemed necessary for identification. [District Rule 4651] Federally Enforceable Through Title V Permit

147. If the facility accepts contaminated soil for disposal, when handling storage piles of contaminated soil that have been inactive for more than 60 consecutive minutes, the piles shall be treated with water or a vapor suppressant and cover with heavy-duty plastic sheeting to reduce VOC emissions and the covering shall have at least a six-feet overlap of adjacent sheets, be securely anchored, and have minimal headspace where vapors may accumulate, or covered with a layer of uncontaminated soil no less than six (6) inches deep. [District Rule 4651] Federally Enforceable Through Title V Permit

148. If the facility accepts contaminated soil for disposal, when handling contaminated soil, a visual inspection of all storage piles of contaminated soil shall be conducted at least once every 24 hours, except when operators do not report to the facility for a given 24-hour period, to ensure the integrity of the covered surfaces and compliance with Section 5.2.5. [District Rule 4651] Federally Enforceable Through Title V Permit

149. If the facility accepts contaminated soil for disposal, when handling contaminated soil, aeration of contaminated soil shall not be allowed except that which occurs during removal or addition of contaminated soil to a storage pile and this includes the use of contaminated soil in daily, intermediate, or final cover operations at disposal sites. [District Rule 4651] Federally Enforceable Through Title V Permit

150. If the facility accepts contaminated soil for disposal, the permittee shall comply with the following when transporting contaminated soil: 1) Any truck or trailer transporting contaminated soil shall be filled such that contaminated soil does not extend above the sides or rear of the truck; 2) Contaminated soil shall be treated with water or vapor suppressant and covered with an continuous heavy duty plastic sheeting or other covering to prevent spillage of contaminated soil during transport, and; 3) Chain-of-custody records shall be maintained according to Section 6.3.1 by the operators to document transfer of the transported contaminated soil. [District Rule 4651] Federally Enforceable Through Title V Permit

151. If the facility accepts contaminated soil for disposal, when decontaminating soil, VOC emissions from the decontamination of contaminated soil shall be controlled by installation and operation of a VOC collection and control device with a VOC destruction or removal efficiency of at least 95%, or any other approved VOC control device demonstrated to be equivalent. [District Rule 4651] Federally Enforceable Through Title V Permit

152. If the facility accepts contaminated soil for disposal, when decontaminating soil, the permittee shall monitor the temperature, pressure, and flow rates of the VOC control device. [District Rule 4651] Federally Enforceable Through Title V Permit

153. If the facility accepts contaminated soil for disposal, when decontaminating soil, the VOC control device shall be operated and maintained in accordance with the manufacturer's recommendations. [District Rule 4651] Federally Enforceable Through Title V Permit

154. If the facility accepts contaminated soil for disposal, when decontaminating on-site excavated contaminated soil, permittee shall monitor soil for contamination using the test method in Section 6.5.2 and record all VOC concentration readings according to Section 6.3.4. [District Rule 4651] Federally Enforceable Through Title V Permit

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155. If the facility accepts contaminated soil for disposal, the permittee shall comply with one of the following regarding contaminated soil: 1) Return the contaminated soil to the excavation and permanently cover with six (6) inches or more of uncontaminated soil, or; 2) Decontaminate the contaminated soil to the extent that the soil is no longer considered contaminated as defined in Section 3.17, or; 3) Transport the contaminated soil to an approved disposal facility, or; 4) Transport the contaminated soil to a location outside of the SJVAB. [District Rule 4651] Federally Enforceable Through Title V Permit

156. If the facility accepts contaminated soil for disposal, when decontaminating soil, the samples from decontaminated soil (that is to be treated as uncontaminated soil) shall be obtained by using the soil sampling methods specified in this permit and shall be tested using the applicable soil sample test methods specified in the permit. [District Rule 4651] Federally Enforceable Through Title V Permit

157. If the facility accepts contaminated soil for disposal, the permittee shall include the following information in the notice of excavation activities: Names and addresses of operator(s) performing and responsible for excavation, location of site where excavation will occur, scheduled starting date of excavation (if the excavation does not commence on the start date, re-notification is required), estimated volume of soil to be excavated, estimated volume (in gallons) of VOC liquid spilled in the soil, if known. [District Rule 4651] Federally Enforceable Through Title V Permit

158. If the facility accepts contaminated soil for disposal, where emergency excavation is conducted at the direction of an authorized officer, the permittee shall include the following information: Name, title and contact information of the authorized officer, and a copy of the signed emergency declaration from the authorized officer. [District Rule 4651] Federally Enforceable Through Title V Permit

159. If the facility accepts contaminated soil for disposal, the permittee shall include the following information in the written notice when excavating contaminated soil: Names and addresses of operator(s) performing and responsible for excavation, address of site where excavation occurred, date(s) of excavation, estimated volume of contaminated soil excavated, estimated average VOC content of the contaminated soil or estimated volume of VOC contaminant, and final disposition of the contaminated soil. [District Rule 4651] Federally Enforceable Through Title V Permit

160. If the facility accepts contaminated soil for disposal, the permittee shall identify each storage pile with the following information: Location of the storage pile, unique identification of the storage pile, and the date that the soil storage pile was excavated. [District Rule 4651] Federally Enforceable Through Title V Permit

161. If the facility accepts contaminated soil for disposal, the operator of a VOC control device used to decontaminate excavated soil shall demonstrate compliance with a VOC destruction or removal efficiency of at least 95%, or any other approved VOC control device demonstrated to be equivalent, before operation of such system. [District Rule 4651] Federally Enforceable Through Title V Permit

162. If the facility accepts contaminated soil for disposal, the permittee shall maintain the following records at the time custody is transferred: the identities and business addresses of the relevant parties such as the generator, transporter, and storage/treatment facilities, the volume of contaminated soil generated or received, all analytical data associated with the contaminated soil (except during an emergency evacuation of soil), the date and location of excavation of the contaminated soil, and the date and signatures of the operators at the time custody is transferred. [District Rule 4651] Federally Enforceable Through Title V Permit

163. If the facility accepts contaminated soil for disposal, the permittee shall maintain visual inspection records at least once every 24 hours except when operators do not report to the facility for that given 24 hours and the records shall include location and unique identification of each specific pile and name, date, and signature of operator inspecting the storage piles. [District Rule 4651] Federally Enforceable Through Title V Permit

164. If the facility accepts contaminated soil for disposal, the permittee shall maintain the following records for VOC concentration readings: the identities and business addresses of the relevant parties such as the generator or storage/treatment facilities, the volume of contaminated or decontaminated soil, date of contaminated or decontaminated soil, VOC concentration reading, and the origin of the contaminated or decontaminated soil. [District Rule 4651] Federally Enforceable Through Title V Permit

165. If the facility accepts contaminated soil for disposal, the permittee shall maintain records of calibrations for all approved monitoring instruments. [District Rule 4651] Federally Enforceable Through Title V Permit

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166. If the facility accepts contaminated soil for disposal, chain-of-custody records shall be kept by the operators to document possession of a sample from the time it is taken in the field until it is analyzed. [District Rule 4651] Federally Enforceable Through Title V Permit

167. Permittee shall maintain records of system inspections including: date, time and inspection results. [District Rule 2201] Federally Enforceable Through Title V Permit

168. The operator shall record emission control device source tests (emissions of CO, NOx, and VOC) in pounds per MMBtu heat input. Operator shall also record VOC destruction/treatment efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit

169. Daily records of the weight of materials received (tons) - including Class II/III waste material, Class II soil cover, and clean soil cover - and daily records of all soil organic content test results and certifications, shall be maintained, kept on site for a period of five years, and made available to District staff upon request. [District Rule 2201] Federally Enforceable Through Title V Permit

170. A record of continuous flare combustion temperature, continuous volumetric gas flow rate, net heating value of landfill gas being combusted, daily landfill gas fuel consumption, and hourly heat input shall be maintained, retained on the premises for a period of at least five years and made readily available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit

171. Records of daily landfill gas flow rate and annual test results of higher heating value of landfill gas shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit

172. Records of calculated landfill and flare annual VOC emissions shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit

173. The gas collection system shall be operated, maintained, and expanded in accordance with the procedures and schedules in the approved Design Plan. Within 90 days of any event that requires a change to the Design Plan, the owner or operator shall submit an amended Design Plan to the APCO. [17 CCR 95464(a)(5) and (6)]

174. Permittee shall route the collected gas to the flares, and operate gas collection and control system continuously except as provided in the condition that references 17 CCR 95464(d) in this permit and the condition that references 17 CCR 95464(e) in this permit. [17 CCR 95464(b)(1)(A)]

175. Landfill gas collection system components downstream of blower have a leak limit of 500 ppmv as methane. Components shall be checked quarterly. [17 CCR 95464(b)(1)(B)]

176. The gas collection system shall be designed and operated to draw all the gas toward the gas control devices. [17 CCR 95464(b)(1)(C)]

177. The enclosed flares shall be equipped with automatic dampers, an automatic shutdown device, a flame arrester, and continuous recording temperature sensors. [District Rule 2201 and 17 CCR 95464(b)(2)(A)] Federally Enforceable Through Title V Permit

178. The methane destruction efficiency for the enclosed flares shall be at least 99% by weight. [17 CCR 95464(b)(2)(A)]

179. The enclosed flares shall be operated with a flame present at all times. During restart or startup, there shall be a sufficient flow of propane or commercial natural gas to the burners to prevent unburned collected methane from being emitted to the atmosphere. [40 CFR 60.18(c)(2) and (f)(2) and 17 CCR 95464(b)(2)(A)] Federally Enforceable Through Title V Permit

180. The enclosed flares shall be operated within the parameter ranges established during the initial or most recent performance test. [17 CCR 95464(b)(2)(A)]

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181. USEPA Test Methods 18, 25, 25A, or 25C shall be used to determine the destruction efficiency of the flare in reducing methane by at least 99 percent. The following equation shall be used to calculate destruction efficiency: [1 - (Mass of MethaneOutlet / Mass of MethaneInlet)]. Each succeeding complete annual source test shall be conducted no later than 45 days after the anniversary date of the initial source test. If the flare remains in compliance after three consecutive source tests, the source testing frequency shall relax to every three years. If a subsequence source test shows the gas collection and control system is out of compliance the source testing frequency will return to annual. [17 CCR 95464(b)(4) and 95471(f)]

182. Requirements of the condition that references 17 CCR 95464(b)(1)(A), the condition that references 17 CCR 95464(b)(1)(B) in this permit, and the condition that references 17 CCR 95464(c) in this permit shall not apply to individual wells involved in well raising provided the following are met: (1) new fill is being added or compacted in the immediate vicinity around the well and (2) once installed, a gas collection well extension is sealed or capped until the raised well is reconnected to a vacuum source. [17 CCR 95464(d)]

183. Requirements of the condition that references 17 CCR 95464(b)(1)(A) in this permit, the condition that references 17 CCR 95464(b)(1)(B) in this permit, and the condition that references 17 CCR 95464(c) in this permit shall not apply to individual landfill gas collection system components that must be temporarily shut down in order to repair the components, due to catastrophic events such as earthquakes, to connect new landfill gas collection system components to the existing system, to extinguish landfill fires, or to perform construction as specified in the Landfill Methane Rule, provided the following requirements are met: 1) any new gas collection system components required to maintain shall be included in the most recent Design Plan and 2) methane emissions are minimized during shutdown. [17 CCR 95464(e)]

184. Landfill collection and control system shall be operated such that landfill surface methane emissions shall not exceed either of the following methane concentration limits: instantaneous surface emission limit of 500 ppmv as methane or an integrated surface emission limit of 25 ppmv as methane. [17 CCR 95465]

185. Requirements of the condition that references 17 CCR 95465 in this permit shall not apply to the working face of the landfill or to areas of the landfill surface where the landfill cover material has been removed and refuse has been exposed for the purpose of installing, expanding, replacing, or repairing components of the landfill gas, leachate, or gas condensate collection and removal system, or for law enforcement activities requiring excavation. [17 CCR 95466]

186. Permittee may use actual landfill gas generation values in future expansion designs of the gas collection and control system (GCCS). All records and recovery data shall be submitted with GCCS plans. [17 CCR 95468]

187. Permittee shall conduct surface emission monitoring using either the procedures specified in 17 CCR 95471(c) or the Los Angeles County Sanitation District monitoring procedure. Permittee shall keep records of which procedure was used. [17 CCR 95468]

188. Permittee shall keep records of delays encountered during repair of leaks or repair of positive wellhead readings. Documentation of delays shall be submitted with the annual report. [17 CCR 95468]

189. Permittee shall keep records of alternate landfill gas collection system modifications being implemented to correct an exceedance in the landfill gas surface emissions or wellhead pressure. Any alternative to installing a new well shall be documented and submitted with the annual report. [17 CCR 95468]

190. Permittee shall identify areas which are dangerous and unable to be inspected. Areas shall be clearly identified on a map of the facility. A copy of the map shall be kept onsite as well as submitted with the annual report. [17 CCR 95468]

191. Permittee shall conduct monitoring of the landfill surface within 3 inches of the surface. The facility may monitor surface emissions with the probe tip at the height of the vegetation if there is vegetation and it is impractical to monitor at 3 inches from the landfill surface. [17 CCR 95468]

192. Permittee shall terminate surface emission testing when the measured average wind speed is over 10 mph or the instantaneous wind speed is over 15 mph. [17 CCR 95468 and 17 CCR 95471]

193. Permittee shall only conduct surface emission testing when precipitation has met the following requirements. It has been 24 hours since measured precipitation of 0.01 to 0.15 inches. It has been 48 hours since measured precipitation of 0.16 to 0.24 inches. It has been 72 hours since measured precipitation of 0.25 or more inches. [17 CCR 95468]

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194. Permittee may comply with the CARB regulation for landfill methane control measures by using approved alternative compliance options. The permittee shall obtain written District approval for the use of any alternative compliance options not specifically approved by this permit. Changes to the approved alternate compliance options shall be made and approved in writing. Documentation of approved alternative compliance options shall be available for inspection upon request. [17 CCR 95468]

195. Instantaneous and integrated landfill surface emissions measurements shall be done quarterly. [17 CCR 95469(a)]

196. For instantaneous emission monitoring, any reading exceeding the limit specified in the condition that references 17 CCR 95465 in this permit shall be recorded as an exceedance and the following actions shall be taken: 1) the operator shall record the date, location, and value of each exceedance, along with re-test dates and results. The location of each exceedance shall be clearly marked and identified on a topographic map of the Municipal Solid Waste landfill, drawn to scale with the location of both the grids and the gas collection system clearly identified; 2) corrective action shall be taken by the operator such as, but not limited to, cover maintenance or repair, or well vacuum adjustments and the location shall be re-monitored within ten calendar days of a measured exceedance. If the re-monitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be re-monitored again no later than ten calendar days after the second exceedance. If the re-monitoring shows a third exceedance, the operator shall install a new or replacement well as determined to achieve compliance no later than 120 calendar days after detecting the third exceedance; 3) any closed or inactive areas on this MSW landfill that has no monitored exceedances of the limit after four consecutive quarterly monitoring periods may monitor annually. Any exceedances of the limit detected during the annual monitoring that cannot be remediated within 10 calendar days shall result in a return to quarterly monitoring of the landfill; and 4) any exceedances of the limit detected during any compliance inspections shall result in a return to quarterly monitoring of the landfill. [17 CCR 95469(a)(1)]

197. For integrated surface monitoring, any reading exceeding the limit specified in the condition that references 17 CCR 95465 in this permit shall be recorded as an exceedance and the following actions shall be taken: 1) the operator shall record the average surface concentration measured as methane for each grid along with re-test dates and results. The location of the grids and the gas collection system shall be clearly marked and identified on a topographic map of the Municipal Solid Waste landfill drawn to scale; 2) within 10 calendar days of a measured exceedance, corrective action shall be taken by the owner or operator such as, but not limited to, cover maintenance or repair, or well vacuum adjustments and the grid shall be re-monitored. If the re-monitoring of the grid shows a second exceedance, additional corrective action shall be taken and the location shall be re-monitored again no later than 10 calendar days after the second exceedance. If the re-monitoring shows a third exceedance, the owner or operator shall install a new or replacement well as determined to achieve compliance no later than 120 calendar days after detecting the third exceedance; 3) any closed or inactive areas on this MSW landfill that has no monitored exceedances of the limit after four consecutive quarterly monitoring periods may monitor annually. Any exceedances of the limits detected during the annual monitoring that cannot be remediated within 10 calendar days shall result in a return to quarterly monitoring of the landfill; and 4) any exceedances of the limit permit detected during any compliance inspections shall result in a return to quarterly monitoring of the landfill. [17 CCR 95469(a)(2)]

198. The enclosed flares shall be equipped with 1) a temperature monitoring device equipped with a continuous recorder which has an accuracy of +-1 percent of the temperature being measured expressed in degrees Celsius or Fahrenheit and 2) at least one gas flow rate measuring device which shall record the flow to the control device(s) at least every 15 minutes. These devices shall be calibrated, maintained and operated according to the manufacturer's specification. [District Rule 2201 and 17 CCR 95469(b)(1)] Federally Enforceable Through Title V Permit

199. Components containing landfill gas and under positive pressure shall be monitored quarterly for leaks. Any component leak shall be tagged and repaired within 10 calendar days. [17 CCR 95469(b)(3)]

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200. The operator shall monitor each individual wellhead monthly to determine the gauge pressure. If there is any positive pressure reading, except as provided in the condition that references 17 CCR 95464(d) in this permit and the condition that references 17 CCR 95464(e) in this permit, the following actions shall be taken: 1) initiate corrective action within five calendar days of the positive pressure measurement; 2) if the problem cannot be corrected within 15 days of the date the positive pressure was first measured, the operator shall initiate further action, including, but not limited to, any necessary expansion of the gas collection system, to mitigate any positive pressure readings; and 3) corrective actions shall be completed and any new wells shall be operating within 120 days of the date the positive pressure was first measured. [17 CCR 95469(c)]

201. Permittee shall keep records of all gas collection system downtime exceeding five days, including individual well shutdown and disconnection times, and the reason for downtime. [17 CCR 95470(a)(1)(A)]

202. Permittee shall keep records of all gas control system downtime in excess of one hour, the reason for the downtime, and the length of time the gas control system was shutdown. [17 CCR 95470(a)(1)(B)]

203. Permittee shall keep records of the expected gas generation flow rate calculated pursuant to 17 CCR 95471(e). [17 CCR 95470(a)(1)(C)]

204. The operator shall maintain records of all instantaneous surface readings of 200 ppmv or greater; all exceedances of the limits in the condition that references 17 CCR 95464(b)(1)(B) in this permit or the condition that references 17 CCR 95465 in this permit, including the location of the leak (or affected grid), leak concentration in ppmv, date and time of measurement, the action taken to repair the leak, date of repair, any required re-monitoring and the re-monitored concentration in ppmv, and wind speed during surface sampling; and the installation date and location of each well installed as part of a gas collection system expansion. [17 CCR 95470(a)(1)(D)]

205. Permittee shall keep records of any positive wellhead gauge pressure measurements, the date of the measurements, the well identification number, and the corrective action taken. [17 CCR 95470(a)(1)(E)]

206. Permittee shall keep records of the annual solid waste acceptance rate and the current amount of waste-in-place. [17 CCR 95470(a)(1)(F)]

207. Permittee shall keep records of the nature, location, amount, and date of deposition of non-degradable waste for any landfill areas excluded from the collection system. [17 CCR 95470(a)(1)(G)]

208. Permittee shall keep records of results of any source tests conducted pursuant to the condition that references 17 CCR 95471(f) in this permit. [17 CCR 95470(a)(1)(H)]

209. Permittee shall keep records describing the mitigation measures taken to prevent the release of methane or other emissions into the atmosphere during the following activities: 1. When solid waste was brought to the surface during the installation or preparation of wells, piping, or other equipment; 2. During repairs or the temporary shutdown of gas collection system components; or, 3. When solid waste was excavated and moved. [17 CCR 95470(a)(1)(I)]

210. Permittee shall keep records of any construction activities pursuant to the condition that references 17 CCR 95466 in this permit. The records shall contain the following information: 1. A description of the actions being taken, the areas of the MSW landfill that will be affected by these actions, the reason the actions are required, and any landfill gas collection system components that will be affected by these actions, 2. Construction start and finish dates, projected equipment installation dates, and projected shut down times for individual gas collection system components, and 3. A description of the mitigation measures taken to minimize methane emissions and other potential air quality impacts. [17 CCR 95470(a)(1)(J)]

211. Permittee shall keep records of the equipment operating parameters specified to be monitored under the condition that references 17 CCR 95469(b)(1) in this permit as well as records for periods of operation during which the parameter boundaries established during the most recent source test are exceeded. The records shall include all 3-hour periods of operation during which the average temperature difference was more than 28 degrees Celsius (or 50 degrees Fahrenheit) below the average combustion temperature during the most recent source test at which compliance with the conditions that reference 17 CCR 95464(b)(2)(A) in this permit was determined. [17 CCR 95470(a)(1)(K)]

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212. Permittee shall keep records of the following for the life of each flare: 1) the flare vendor specifications; 2) the expected gas generation flow rate as calculated pursuant to the condition that references 17 CCR 95471(e) in this permit; and 3) the percent reduction of methane achieved by the flare determined pursuant to the condition that references 17 CCR 95471(f) in this permit. [17 CCR 95470(a)(2)]

213. Permittee shall keep copies of the records and reports and provide them to the APCO within five business days upon request. Records and reports shall be kept at a location within the State of California. [17 CCR 95470(a)(3)]

214. A Closure Notification shall be submitted to the APCO within 30 days of waste acceptance cessation. The Closure Notification shall include the last day solid waste was accepted, the anticipated closure date of the landfill, and the estimated waste-in-place. [17 CCR 95470(b)(1)]

215. Permittee shall submit an Equipment Removal Report to the APCO within 30 days prior to well capping, removal, or cessation of operation of the gas collection, treatment, or control system equipment. The Equipment Removal Report shall include all of the following: 1) a copy of the Closure Notification submitted pursuant to the condition that references 17 CCR 95470(b)(1) in this permit; 2) a copy of the initial source test report or other documentation demonstrating that the gas collection and control system has been installed and operated for a minimum of 15 years, unless the owner or operator can demonstrate to the satisfaction of the APCO that due to declining methane rates and landfill is unable to operate the gas collection and control system for a 15-year period; and 3) surface emissions monitoring results needed to verify that landfill surface methane concentration measurements do not exceed the limits specified in the condition that references 17 CCR 95465 in this permit. [17 CCR 95470(b)(2)]

216. Permittee shall submit an annual report for the period of January 1 through December 31 of each year. Each annual report shall be submitted to the APCO by March 15 of the following year. The annual report shall contain the fowling: 1) MSW landfill name, owner and operator, address, and solid waste information system identification number; 2) total volume of landfill gas collected in standard cubic feet; 3) average composition of the landfill gas collected over the reporting period in percent methane and percent carbon dioxide by volume; 4) gas control device type, year of installation, rating, fuel type, and total amount of landfill gas combusted in each flare; 5) the date that the gas collection and control system was installed and in full operation; 6) the percent methane destruction efficiency of each flare; 7) type and amount of supplemental fuels burned with the landfill gas in each flare; 8) total volume of landfill gas shipped off-site, the composition of the landfill gas collected in percent methane and percent carbon dioxide by volume, and the recipient of the gas; 9) most recent topographic map of the site showing the areas with final cover and a geomembrane and the area with final cover without a geomembrane with corresponding percentages over the landfill surface; and 10) the information required by the conditions that reference 17 CCR 95470(a)(1)(A) through 95470(a)(1)(F) in this permit, the condition that references 17 CCR 95470(a)(1)(F) in this permit, the condition that references 17 CCR 95470(a)(1)(H) in this permit and the condition that references 17 CCR 95470(a)(1)(K) in this permit. [17 CCR 95470(b)(3)]

217. Permittee shall report the following information to the APCO: 1) MSW landfill name, owner and operator, address, and solids waste information system identification number; 2) the landfill's status (active, closed, or inactive) and the estimated waste-in-place in tons; and 3) most recent topographic map of the site showing the areas with final cover and a geomembrane and the areas with final cover without a geomembrane with corresponding percentages over the landfill surface. [17 CCR 95470(b)(4)]

218. Any report or information shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on the information and belief formed after reasonable inquiry, the statement and information in this document are true, accurate, and complete. [17 CCR 95470(b)(6)]

219. Permittee shall maintain records to demonstrate that refuse delivery trucks are unloaded within two hours after entering the property. [District Rules 1070 and 4102] Federally Enforceable Through Title V Permit

220. Permittee shall maintain records, on a daily basis, of the total soil cover usage rate. [District Rule 1070] Federally Enforceable Through Title V Permit

221. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit