

May 5, 2022

Mr. George Anderson
Avenal Regional Landfill
PO Box 189
Avenal, CA 93204

Re: Notice of Preliminary Decision – Title V Permit Renewal
Facility Number: C-3839
Project Number: C-1203946

Dear Mr. Anderson:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Avenal Regional Landfill at 201 Hydril Rd, Avenal, California.

The notice of preliminary decision for this project has been posted on the District's website (www.valleyair.org). After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the renewed Federally Mandated Operating Permit. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Errol Villegas, Permit Services Manager, at (559) 230-5900.

Sincerely,



Brian Clements
Director of Permit Services

Enclosures

cc: Courtney Graham, CARB (w/enclosure) via email
cc: Gerardo Rios, EPA (w/enclosure) via EPS

Samir Sheikh
Executive Director/Air Pollution Control Officer

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**SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT**

**Proposed Title V Permit Renewal Evaluation
Avenal Regional Landfill
C-3839**

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TITLE V PERMIT RENEWAL EVALUATION
Municipal Solid Waste Landfill

Engineer: Jesse A. Garcia
Date: March 7, 2022

Facility Number: C-3839
Facility Name: Avenal Regional Landfill
Mailing Address: PO Box 189
Avenal, CA 93204

Contact Name: Gabrielle Fourie Stephens
Work Phone: (562) 355-6510

Responsible Official: George Anderson
Title: Site Manager

Project # : C-1203946
Deemed Complete: November 5, 2020

I. PROPOSAL

Avenal Regional Landfill was issued their last Title V permit after it was renewed on August 31, 2016. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the renewed Title V permit.

According to EPA policy, annual emission limits must be practically enforceable, and goes on to say that to be practically enforceable, annual limits must be enforced on a short-term basis.

The District has developed conditions regarding practically enforceable annual emission and throughput limits. Therefore, the conditions that have been modified and/or added to the permits at this facility are listed in the following table:

Permits	Conditions
C-3839-1-14	16, 22, 27, 91

The purpose of this evaluation is to provide the legal and factual basis for all updated applicable requirements and to determine if the facility will comply with these updated requirements. It also specifically identifies all additions, deletions, and/or changes made to permit conditions or equipment descriptions.

II. FACILITY LOCATION

Avenal Regional Landfill is located at 1200 Skyline Blvd in Avenal, California.

III. EQUIPMENT LISTING

A detailed facility printout listing all permitted equipment at the facility is included as Attachment A.

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant is requesting to use the following model general permit Templates:

A. Template SJV-UM-0-3 Facility Wide Umbrella

The applicant has requested to utilize template No. SJV-UM-0-3, Facility Wide Umbrella. Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template.

V. SCOPE OF EPA AND PUBLIC REVIEW

Certain segments of the proposed Renewed Operating Permit are based on model general permit templates that have been previously subject to EPA and public review. The terms and conditions from the model general permit templates are included in the proposed permit and are not subject to further EPA and public review.

For permit applications utilizing model general permit templates, public and agency comments on the District's proposed actions are limited to the applicant's eligibility for model general permit template, applicable requirements not covered by the model general permit template, and the applicable procedural requirements for issuance of Title V Operating Permits.

The following permit conditions, including their underlying applicable requirements, originate from model general permit templates and are not subject to further EPA or public review.

Conditions 1 through 40 of the requirements for permit unit C-3839-0-3.

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

Rules Addressed by General Permit Template¹

- District Rule 2010, Permits Required (amended December 17, 1992)
- District Rule 2020, Exemptions (amended December 18, 2014)²
- District Rule 2031, Transfer of Permits (adopted December 17, 1992)
- District Rule 2070, Standards for Granting Applications (adopted December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 2520, Federally Mandated Operating Permits, Sections 5.2, 9.1.1, 9.4, 9.5, 9.7, 9.8, 9.9, 9.13.1, 9.13.2, 9.16, 10.0 (amended August 15, 2019)
- District Rule 4101, Visible Emissions (amended February 17, 2005)
- District Rule 4601, Architectural Coatings (amended April 16, 2020)³
- District Rules 8021, 8031, 8041, 8051, 8061, 8071, Fugitive Dust (PM10) Emissions (amended August 19, 2004)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos (amended July 20, 2004)
- 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners (amended March 24, 2021)
- 40 CFR Part 82, Subpart F, Recycling and Emission Reduction (amended April 10, 2020)

¹ The Umbrella General Template addressed these requirements for all permit units at the facility.

² The amendments made to this rule on August 18, 2011 and December 18, 2014 have no impact on this source; therefore, Template SJV-UM-03 is still valid for this project.

³ The amendments made to this rule on April 16, 2020 have no impact on this source; therefore, Template SJV-UM-03 is still valid for this project.

Rules Not Addressed by General Permit Template

A. Rules Updated

- District Rule 2201, New and Modified Stationary Source Review Rule (amended August 15, 2019)
- 40 CFR Part 60, Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills (amended March 26, 2020)
- 40 CFR Part 60, Subpart XXX, Standards of Performance for Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014 (amended October 7, 2020)
- 40 CFR Part 63, Subpart AAAA, National Emission Standards for Hazardous Air Pollutants; Municipal Solid Waste Landfills (amended March 26, 2020)

B. Rules Removed

- Fresno County Rule 110, Equipment Breakdown (SIP approved 8/22/1977 ⇒ District resolution to rescind from SIP 2/17/2022)
- Kern County Rule 111, Equipment Breakdown (SIP approved 10/24/1980 ⇒ District resolution to rescind from SIP 2/17/2022)
- Kings County Rule 111, Equipment Breakdown (SIP approved, last amended 6/18/1982 ⇒ District resolution to rescind from SIP 2/17/2022)
- Madera County Rule 113, Equipment Breakdown (SIP approved 11/18/1983 ⇒ District resolution to rescind from SIP 2/17/2022)
- Stanislaus County Rule 110, Equipment Breakdown (SIP approved 6/1/1983 ⇒ District resolution to rescind from SIP 2/17/2022)
- Tulare County Rule 111, Equipment Breakdown (SIP approved 8/22/1977 ⇒ District resolution to rescind from SIP 2/17/2022)

C. Rules Added or Evaluated

- District Rule 4311, Flares (amended December 17, 2020)

- 40 CFR Part 60, Subpart Cf, Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (added August 29, 2016 ⇒ amended March 26, 2020)
- 40 CFR Part 62, Subpart OOO, Federal Plan Requirements for Municipal Solid Waste Landfills That Commenced Construction On or Before July 17, 2014 and Have Not Been Modified or Reconstructed Since July 17, 2014 (adopted May 21, 2021)
- 40 CFR Part 64, Compliance Assurance Monitoring (CAM) (amended October 10, 1997)

D. Rules Not Updated

- District Rule 1070, Inspections (amended December 17, 1992)
- District Rule 1081, Source Sampling (amended December 16, 1993)
- District Rule 2410, Prevention of Significant Deterioration (adopted June 16, 2011 and effective November 26, 2012)
- District Rule 8011, General Requirements (amended August 19, 2004)

VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

For each Title V source, the District issues a single permit that contains the Federally Enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permits. The terms and conditions that are part of the facility's Title V permit are designated as "Federally Enforceable Through Title V Permit".

For this facility, the following are not federally enforceable and will not be discussed in further detail:

Rules Addressed by General Permit Template

- District Rule 1100, Equipment Breakdown (amended December 17, 1992)
- District Rule 1160, Emission Statements (adopted November 18, 1992)
- District Rule 2040, Applications (amended December 17, 1992)

Rules Not Addressed by General Permit Template

A. Rules Added/Updated

None

B. Rules Not Updated

- California Environmental Quality Act (CEQA)

C-3839-1-14: MUNICIPAL SOLID WASTE LANDFILL, 28.8 MILLION CUBIC YARD CAPACITY (123 ACRES) WITH A 1,000 GALLON CONDENSATE STORAGE TANK AND GAS COLLECTION AND CONTROL SYSTEM WITH A SULFUR SCRUBBER SYSTEM SERVED BY A 45.5 MMBTU/HR FLARE

- Condition 1 of the requirements for this permit unit is solely based on the rule listed above and is not Federally Enforceable through Title V.

- California Code of Regulations (CCR) Title 17, Subchapter 10, Article 4, Sub-article 6, Sections 95460 through 95476, Methane Emissions from Municipal Solid Waste Landfills (California Air Resources Board (ARB) regulation)

C-3839-1-14: MUNICIPAL SOLID WASTE LANDFILL, 28.8 MILLION CUBIC YARD CAPACITY (123 ACRES) WITH A 1,000 GALLON CONDENSATE STORAGE TANK AND GAS COLLECTION AND CONTROL SYSTEM WITH A SULFUR SCRUBBER SYSTEM SERVED BY A 45.5 MMBTU/HR FLARE

The purpose of this subarticle is to reduce methane emissions from municipal solid waste (MSW) landfills pursuant to the California Global Warming Solutions Act of 2006 (Health & Safety Code, Sections 38500 et. seq.). Conditions 144 - 164 are based on this regulation and are not federally enforceable through Title V.

- District Rule 1100, Equipment Breakdown (amended December 17,1992)

C-3839-0-3: FACILITY-WIDE REQUIREMENTS

- Conditions 1 and 2 of the facility-wide requirements is based on the rule listed above and is not Federally Enforceable through Title V.

- District Rule 4102, Nuisance (amended December 17, 1992)

C-3839-0-3: FACILITY-WIDE REQUIREMENTS

- Condition 42 of the facility-wide requirements is based on the rule listed above and is not Federally Enforceable through Title V.

C-3839-1-14: MUNICIPAL SOLID WASTE LANDFILL, 28.8 MILLION CUBIC YARD CAPACITY (123 ACRES) WITH A 1,000 GALLON CONDENSATE STORAGE TANK AND GAS COLLECTION AND CONTROL SYSTEM WITH A SULFUR SCRUBBER SYSTEM SERVED BY A 45.5 MMBTU/HR FLARE

- Conditions 2 through 10, 12, 13, and 14 of the requirements for this permit unit are solely based on the rule listed above and is not Federally Enforceable through Title V.
- Conditions 11 and 55 of the requirements for this permit unit reference other rules that are Federally Enforceable through Title V and are addressed in Section VIII of this evaluation.

Conditions 2 through 14 were originally included on this permit during the Authority to Construct project N-1071160 as a mechanism to reduce the operational odor emissions to less than significant based on the City-enforced mitigation measures from the Odor Impact Minimization Plan. These conditions continue to serve as a mechanism to ensure compliance with the most recent Odor Impact Minimization Plan dated December 2020 and District Rule 4102; therefore, these conditions will remain on the permit.

VIII. PERMIT REQUIREMENTS

The purpose of this evaluation is to review changes to federally enforceable requirements; therefore, this compliance section will only address rules that have been rescinded, amended or added since the issuance of the initial Title V permit or most recent renewal of the Title V permit.

A. Fresno County Rule 110, Kern County Rule 111, Kings County Rule 111, Madera County Rule 113, Stanislaus County Rule 110, and Tulare County Rule 111 – Equipment Breakdown

In accordance with EPA's State Implementation Plan (SIP) Call, on February 17, 2022, the District rescinded Fresno County Rule 110, Kern County Rule 111, Kings County Rule 111, Madera County Rule 113, Stanislaus County Rule 110, and Tulare County Rule 111 from the San Joaquin Valley SIP.

Therefore, proposed conditions #1 and 2 on permit C-3839-0 are no longer Federally Enforceable. Additionally, proposed condition #39 was modified to remove all references to County breakdown rules.

B. District Rule 2201 - New and Modified Stationary Source Review Rule

District Rule 2201 has been amended since this facility's Title V permit was last renewed. However, the requirements of this rule are only triggered at the time the source undergoes a modification. All applicable requirements from any NSR permit actions have already been incorporated into the current Title V permit.

C. District Rule 2520 - Federally Mandated Operating Permits

District Rule 2520 has been amended since this Title V permit was last renewed, but the last amended version of the rule is not SIP approved. The amendments to this rule do not have any effect on current permit requirements; however, greenhouse gas emissions will be addressed under Rule 2520 during this renewal.

Additionally, condition #41 on permit C-3839-0-2 was removed as it is no longer applicable.

Greenhouse Gas Discussion

There are no federally applicable Greenhouse Gas (GHG) requirements for this source. It should be noted that the Mandatory Greenhouse Gas Reporting rule (40 CFR Part 98) is not included in the definition of an applicable requirement within Title V (per 40 CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

D. District Rule 4311 – Flares

Upon last amendment of District Rule 4311 on December 17, 2020, the flare in this project became subject to this rule. However, the amended rule is not SIP-approved by EPA, and the previous version of this rule (amended June 18, 2009) is SIP-approved but was not applicable to the flare⁴.

The amended rule requires landfills to submit an Authority to Construct (ATC) application by July 1, 2022 to comply with Section 5.9 of this rule. Also,

⁴ Section 4.2 of District Rule 4311 (June 18, 2009) states flares that are subject to the requirements of 40 CFR 60 Subpart WWW are exempt from this rule. At the time of this Title V renewal application submittal, the flare in this facility was subject to the requirements of 40 CFR 60 Subpart WWW.

beginning of January 1, 2024, other applicable monitoring, recordkeeping, reporting requirements will take effect. Currently, the flare in this project is in compliance with Rule 4311, and the facility will submit an ATC application by July 1, 2022.

E. District Rule 4601 – Architectural Coatings

District Rule 4601 was amended on April 16, 2020. However, the amended rule is not SIP-approved by EPA. The previous version of this rule (amended December 17, 2009) is SIP-approved and was addressed by the District's previous permit renewal. Therefore, changes to the rule do not affect the current permit.

F. 40 CFR Part 60, Subpart Cf – Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills

This subpart establishes Emission Guidelines (EG) and compliance times for the control of designated pollutants from certain designated municipal solid waste (MSW) landfills in accordance with section 111(d) of the Clean Air Act and subpart B of this part.

The designated facility to which these Emission Guidelines apply is each existing MSW landfill for which construction, reconstruction, or modification was commenced on or before July 17, 2014. The facility has commenced construction, reconstruction, or modification on or before July 17, 2014; therefore, this facility is subject to this subpart.

On May 25, 2017, California Air Resources Board (CARB) submitted a state plan, which is the Landfill Methane Regulation (LMR), to implement the EPA's Emissions Guidelines (EG) contained in this subpart. However, the EPA partially approved and partially disapproved the California state plan. In addition, as of June 21, 2021, landfills previously subject to Subparts Cf are now subject to Subpart OOO Federal Plan Requirements for Municipal Solid Waste Landfills. Since this facility was subject to Subpart Cf and now subject to Subpart OOO instead, this subpart is no longer applicable.

G. 40 CFR Part 60, Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills

The provision of this subpart apply to each municipal solid waste landfill that commenced construction, reconstruction, or modification on or after May 30, 1991, but before July 18, 2014.

As of June 21, 2021, landfills previously subject to 40 CFR 60 Subpart WWW are now subject to 40 CFR 62 Subpart OOO Federal Plan Requirements for Municipal Solid Waste Landfills. This facility was previously subject to 40 CFR 60 Subpart WWW and is now subject to 40 CFR 62 Subpart OOO, therefore, this subpart is no longer applicable.

However, as seen above, this facility is now subject to 40 CFR 62 Subpart OOO, and the major provisions of Subpart WWW are retained in 40 CFR 62 Subpart OOO. Additionally, the facility is subject to 40 CFR 63 Subpart AAAA (discussed later in this evaluation), which also contains some of the same requirements as Subpart WWW. Conditions # 23, 24, 36, 43, 45, and 91 – 140 of permit C-3839-1-14 will be revised to remove the previous Subpart WWW rule reference, and add the applicable requirements of 40 CFR 62 Subpart OOO and 40 CFR 63 Subpart AAAA.

H. 40 CFR Part 60, Subpart XXX – Standards of Performance for Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014

The provisions of this subpart apply to each municipal solid waste landfill that commenced construction, reconstruction, or modification after July 17, 2014.

The facility has not commenced construction, been reconstruction, or modification after July 17, 2014; therefore, this subpart does not apply and no further discussion is required.

I. 40 CFR Part 62, Subpart OOO – Federal Plan Requirements for Municipal Solid Waste Landfill That Commenced Construction On or Before July 17, 2014 and Have Not Been Modified or Reconstructed Since July 17, 2014

This subpart establishes emission control requirements and compliance schedules for the control of designated pollutants from certain designated municipal solid waste (MSW) landfills in accordance with section 111(d) of the Clean Air Act and subpart B of 40 CFR part 60.

On May 21, 2021, the USEPA published a Federal plan, which became effective on June 21, 2021, to implement the EG and Compliance Times for existing MSW landfills located in states where state plans are not in effect. Since the California state plan has not been fully approved, this landfill became subject to Subpart OOO as of June 21, 2021.

Section 14352(f) states when a municipal solid waste landfill subject to this subpart is closed, the owner or operator is no longer subject to the requirement to maintain an operating permit under part 70 or 71 of this chapter for the landfill

if the landfill is not otherwise subject to the requirements of either part 70 or 71 and if either of the following conditions are met:

- The landfill was never subject to the requirement for a control system under § 62.14353 of this subpart; or
- The owner or operator meets the conditions for control system removal specified in 40 CFR 63.1957(b).

Condition #92 on permit unit -1-14 was revised to remove Subpart WWW and add Subpart OOO references on the draft renewed permit.

- This operating permit may be cancelled with APCO approval when the landfill is closed, pursuant to the requirements of this permit, if the landfill is not otherwise subject to the requirements of either 40 CFR part 70 or part 71 and if either 1) it was never subject to the requirement to install and operate a gas collection and a control system under 40 CFR 62.16714; or 2) the owner or operator meets the conditions for control system removal specified in 40 CFR 62.16714(f). [40 CFR 62.16711(f)]

J. 40 CFR Part 63, Subpart AAAA – National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills

On September 27, 2021, all landfills described in Section 63.1935 were required to meet the applicable requirements of this subpart. Since this facility meets the description of an applicable landfill in Section 63.1935, it is subject to the requirements of this subpart. This subpart superseded the major provisions of the California Emissions Guidelines rule and 40 CFR 62 Subpart OOO. During this Title V renewal, the provisions of 40 CFR 63 Subpart AAAA will be integrated in to the permit.

As seen above, this facility is now subject to 40 CFR 63 Subpart AAAA, and the major provisions of Subpart WWW, which are included on the existing permit, are retained in 40 CFR 62 Subpart OOO and 40 CFR 63 Subpart AAAA; therefore, the conditions # 23, 24, 36, 43, 45, and 91 – 140 of permit C-3839-1-14 will be revised to reflect applicable provisions of 40 CFR 62 Subpart OOO and 40 CFR 63 Subpart AAAA.

Additionally, section 63.1559(d) states for the performance test required in § 63.1959(b)(2)(iii)(B), EPA Method 25 or 25C (EPA Method 25C of appendix A-7 to part 60 of this chapter may be used at the inlet only) of appendix A of this part must be used to determine compliance with the 98 weight-percent efficiency or the 20- ppmv outlet concentration level, unless another method to demonstrate compliance has been approved by the Administrator as provided by § 63.1981(d)(2). Also, this section states EPA Method 18 may be used in

conjunction with EPA Method 25A on a limited basis (compound specific, e.g., methane). Therefore, the following revised condition (#114) will be placed on the draft renewed permit.

- For the performance test required in 63.1959(b)(2)(iii)(B), Method 25 or 25C of Appendix A must be used to determine compliance with the 98 weight percent efficiency or the 20 ppmv outlet concentration level, unless another method to demonstrate compliance has been approved by the APCO as provided by 63.1981(d)(2). Method 3, 3A, or 3C of Appendix A 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. A Method 18 may be used in conjunction with EPA Method 25A on a limited basis (compound specific, e.g., methane) or EPA Method 3C may be used to determine methane. The methane as carbon should be subtracted from the EPA Method 25A total hydrocarbon value as carbon to give NMOC concentration as carbon. The landowner or operator must 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: $(\text{NMOC}_{\text{in}} - \text{NMOC}_{\text{out}})/\text{NMOC}_{\text{in}}$. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081 and 40 CFR 63.1959(d)]

K. 40 CFR Part 82, Subpart B – Servicing of Motor Vehicle Air Conditioners

The purpose of 40 CFR Part 82 Subpart B is to implement section 609 of the Clean Air Act, as amended regarding the servicing of motor vehicle air conditioners (MVACs), and to implement section 608 of the Act regarding certain servicing, maintenance, repair disposal of air conditioners in MVACs and MVAC-like appliances.

These regulations apply to any person performing service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner.

The amendments to this subpart do not result in a modification to the current permit requirement included as condition 28 of draft permit requirements of draft facility-wide permit C-3839-0-3. Therefore, the modifications to this subpart are not addressed any further in this evaluation.

L. 40 CFR Part 82, Subpart F – Recycling and Emissions Reduction

The purpose of this subpart is to reduce emissions of class I and class II refrigerants and their non-exempt substitutes to the lowest achievable level by maximizing the recapture and recycling of such refrigerants during the maintenance, service, repair, and disposal of appliances and restricting the sale of refrigerants consisting in whole or in part of a class I or class II ozone-depleting substance or their non-exempt substitutes in accordance with Title VI of the Clean Air Act.

This subpart applies to any person maintaining, servicing, or repairing appliances containing class I, class II or non-exempt substitute refrigerants. This subpart also applies to persons disposing of such appliances (including small appliances and motor vehicle air conditioners), refrigerant reclaimers, technician certifying programs, appliance owners and operators, manufacturers of appliances, manufacturers of recovery and/or recycling equipment, approved recovery and/or recycling equipment testing organizations, and persons buying, selling, or offering to sell class I, class II, or non-exempt substitute refrigerants.

The amendments to this subpart do not result in a modification to the current permit requirement included as condition 27 of draft permit requirements of draft facility-wide permit C-3839-0-3. Therefore, the modifications to this subpart are not addressed any further in this evaluation.

M. 40 CFR Part 64 - Compliance Assurance Monitoring

40 CFR Part 64 requires Compliance Assurance Monitoring (CAM) for units that meet the following three criteria:

- 1) the unit must have an emission limit for the pollutant;
- 2) the unit must have add-on controls for the pollutant; these are devices such as flue gas recirculation (FGR), baghouses, and catalytic oxidizers; and
- 3) the unit must have a pre-control potential to emit of greater than the major source thresholds.

Pollutant	Major Source Threshold (lb/year)
NO _x	20,000
SO _x	140,000
PM ₁₀	140,000
CO	200,000
VOC	20,000

- a) C-3839-1-14: MUNICIPAL SOLID WASTE LANDFILL, 28.8 MILLION CUBIC YARD CAPACITY (123 ACRES) WITH A 1,000 GALLON CONDENSATE STORAGE TANK AND GAS COLLECTION AND CONTROL SYSTEM WITH A SULFUR SCRUBBER SYSTEM SERVED BY A 45.5 MMBTU/HR FLARE

According to 40 CFR 64.2 (b)(1)(i), emission limitations or standards proposed by the Administrator after November 15, 1990 pursuant to section 111 or 112 of the Act are exempt from the requirements of this part. Pursuant to Section 64.1, emission limitations or standard means any applicable requirement that constitutes an emission limitation, emission standard, standard of performance or means of emission limitation as defined under the Act.

This municipal solid waste landfill is subject to the requirements of 40 CFR 62, Subpart OOO, Federal Plan Requirements for Municipal Solid Waste Landfills That Commenced Construction On or Before July 17, 2014 and Have Not Been Modified or Reconstructed Since July 17, 2014, which was proposed after November 15, 1990. Therefore, this permit is not subject to CAM requirements.

IX. PERMIT SHIELD

A permit shield legally protects a facility from enforcement of the shielded regulations when a source is in compliance with the terms and conditions of the Title V permit. Compliance with the terms and conditions of the Operating Permit is considered compliance with all applicable requirements upon which those conditions are based, including those that have been subsumed.

A. Requirements Addressed by Model General Permit Templates

1. Model General Permit Template SJV-UM-0-3

By submitting Model General Permit Template SJV-UM-0-3 qualification form, the applicant has requested that a permit shield be granted for all the applicable requirements identified by the template. Therefore, the permit shields as granted in Model General Permit Template is included as conditions 1 through 40 of the facility-wide requirements (C-3839-0-3).

X. CALIFORNIA ENVIRONMENTAL QUALITY ACT

The purpose of the Title V permit renewal is to update the permit to ensure that any changes to regulations since the issuance of the initial Title V permit or most recent renewal of the Title V permit are incorporated as permit requirements.

Per the California Environmental Quality Act (CEQA) Statute §21080.24, and CEQA Guidelines §15281, the issuance, modification, amendment, or renewal of any permit by an air pollution control district or air quality management district pursuant to Title V is exempt from CEQA, unless the issuance, modification, amendment, or renewal authorizes a physical or operational change to a source or facility. There will be no physical or operational change to the source or facility nor will the Title V permit renewal authorize a physical or operational change to the source or facility. Therefore, this project, a Title V permit renewal, is subject to a ministerial action that is exempt from CEQA.

XI. PERMIT CONDITIONS

See Attachment A - Draft Renewed Title V Operating Permit.

ATTACHMENTS

- A. Draft Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. Detailed Summary List of Facility Permits

ATTACHMENT A

Draft Renewed Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: C-3839-0-3

EXPIRATION DATE: 06/30/2021

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, 6.1]
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, 7.0]
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, 5.0]
4. {4365} 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 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {2289} 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 9.12.1] Federally Enforceable Through Title V Permit
6. {2290} 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. {2292} 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. {2293} 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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

10. {2294} 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
11. {2295} 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 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. {2296} 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. {2297} 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. {2298} 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. {2299} 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. {2300} 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. {2301} 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. {2302} 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. {2303} 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. {2304} 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. {2305} 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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
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22. {4383} 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. {4384} No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. {2310} 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. {2311} 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 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. {2312} 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 82, Subpart B. [40 CFR 82, Subpart B] Federally Enforceable Through Title V Permit
29. {4390} 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. {4391} 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. {4392} 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. {4393} 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 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
33. {4394} 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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
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34. {4395} 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. {2319} 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
36. {2320} 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. {2321} 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. {2322} 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), Rule 110 (San Joaquin), and Rule 109 (Merced). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin July 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
42. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

These terms and conditions are part of the Facility-wide Permit to Operate.

DRAFT

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-3839-1-14

EXPIRATION DATE: 06/30/2021

EQUIPMENT DESCRIPTION:

MUNICIPAL SOLID WASTE LANDFILL, 28.8 MILLION CUBIC YARD CAPACITY (123 ACRES) WITH A 1,000 GALLON CONDENSATE STORAGE TANK AND GAS COLLECTION AND CONTROL SYSTEM WITH A SULFUR SCRUBBER SYSTEM SERVED BY A 45.5 MMBTU/HR FLARE

PERMIT UNIT REQUIREMENTS

1. All new off-road equipment at the landfill shall meet USEPA Tier 3 emission standards and be equipped with CARB certified add-on controls for diesel particulate matter with a control efficiency of at least 82% or shall meet USEPA Tier 4 emission standards. On and after the USEPA Tier 4 compliance deadline, all new off-road equipment at the landfill shall meet the appropriate USEPA Tier 4 emission standard in effect at that time. [California Environmental Quality Act]
2. The landfill facility, associated equipment, and surrounding Avenal Regional 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]
3. 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]
4. 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]
5. Refuse delivery trucks shall be unloaded within a reasonable amount of time after entering the property. [District Rule 4102]
6. All refuse trucks shall be maintained in condition to prevent leakage of solid or liquid material. [District Rule 4102]
7. 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]
8. All trucks delivering refuse shall not be leaking liquid or solid material prior to exiting the landfill site. Trucks shall be cleared of any debris to minimize nuisance emissions. [District Rule 4102]
9. 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]
10. 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]
11. 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
12. The exhaust stack of the flare shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
13. The flare minimum stack height must be at least 40 feet high. [District Rule 4102]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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14. The flare maximum stack diameter may be no greater than 8 feet. [District Rule 4102]
15. Emission rate from the enclosed flare shall not exceed any of the following limits: 0.05 lb-NO_x/MMBtu; 0.2 lb-CO/MMBtu; or 0.008 lb-PM₁₀/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
16. VOC emissions (as hexane) from the landfill and flare shall not exceed either of the following limits: 91.9 pounds per day or 33,537 pounds per rolling 12-month period. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
17. SO_x emissions from the flare shall not exceed 91.7 lb/day calculated as SO₂. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Gas combusted at the flare shall be tested for sulfur (H₂S) content whenever the flow rate to the flare is modified manually either at the flare/blower station, or by adjustments or modifications to the well field that result in flow modifications, OR once quarterly, whichever is sooner. Flow modifications due to natural occurrences do not require testing of the inlet gas for sulfur (H₂S) content unless the flow rate is modified by more than 20% from the flow at the previous inlet gas test date. If Draeger tube monitoring results in a calculated SO_x emission rate greater than 73.0 lb-SO_x/day, the operator shall immediately modify the flow rate to the flare to reduce the SO_x emission rate below 73.0 lb-SO_x/day, or shall determine compliance with the 91.7 lb-SO_x/day emission limit by sampling the flare gas for total reduced sulfur compounds according to the test methods indicated on this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
19. For purposes of demonstrating compliance with the permitted 91.7 lb-SO_x/day emission limit from sulfur content monitoring of the flare gas, the following formula may be used: $\text{lb-SO}_x/\text{day} = 0.000243 \times [\text{ppmv sulfur content of flare gas, as H}_2\text{S}] \times [\text{flare rate of landfill gas (scf/min)}]$. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Concentrations of H₂S shall be monitored during normal working hours at the inlet and outlet of the sulfur scrubber using Draeger tubes or a portable analyzer for sixty days of operation to establish the scrubber's performance and estimated lifespan. Following the monitoring period the permittee shall submit to the District a plan detailing the change out of the sulfur medium. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Operator shall keep a record of all sulfur content monitoring of the flare gas including (1) the date the landfill gas flow rate to the flare was modified; (2) how the landfill gas flow rate was modified (e.g. increasing the gas flow rate on well #1); (3) the type of sulfur monitoring performed on the flare gas (e.g. Draeger tube or ASTM D1072); (4) the results in ppmv, as H₂S; (5) the total flow rate (scf/min) of landfill gas to the flare; (6) the calculated SO_x emission rate in lb-SO₂/day; and (7) records of change out of filter medium of the scrubbers. [District Rule 2201] Federally Enforceable Through Title V Permit
22. The heat input of collected landfill gas into the flare shall not exceed either of the following: 45.5 MMBtu/hr or 398,580 MMBtu per rolling 12-month period. Heat input shall be calculated daily using monthly methane measurements (%), landfill gas flow into the flare (cubic feet per minute), and the annually tested landfill gas heat content (Btu/cubic foot). [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
23. Permittee shall operate the enclosed flare at all times when the collected gas is routed to it. [District Rule 2201 and 40 CFR 63.1958(f)] Federally Enforceable Through Title V Permit
24. The flare shall reduce the inlet NMOC emissions by at least 98% by weight. [District Rule 2201 and 40 CFR 63.1959(b)(2)(iii)(B)] Federally Enforceable Through Title V Permit
25. NMOC collection efficiency shall be at least 85% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Total soil cover usage rate shall not exceed 3,523 tons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Total Class III waste material rate shall not exceed either of the following limits: 6,013 tons per day or 2,194,602 tons per rolling 12-month period. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
28. Total PM₁₀ emissions from handling of soil cover shall not exceed 0.0023 lb-PM₁₀ per ton of material handled. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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29. The owner or operator shall maintain a non-resettable, totalizing volumetric flow meter to continuously measure the amount of landfill gas condensate injected in the flare. [District Rule 2201] Federally Enforceable Through Title V Permit
30. The landfill gas condensate injection rate shall not exceed 5 gallons per minute. [District Rule 2201] Federally Enforceable Through Title V Permit
31. Source testing to demonstrate compliance with the flare VOC, NO_x, and CO emission limits and VOC control efficiency requirements shall be conducted at least once every 12 months. [District Rule 2201] Federally Enforceable Through Title V Permit
32. Source testing for NO_x shall be conducted using EPA Test Method 7E or CARB Method 100. [District Rule 1081] Federally Enforceable Through Title V Permit
33. Source testing for CO shall be conducted using EPA Test Method 10 or 10B, CARB Methods 1-5 with 10 or CARB Test Method 100. [District Rule 1081] Federally Enforceable Through Title V Permit
34. Gas combusted in the flares shall be tested for H₂S content on a quarterly basis using Draeger tubes. If compliance is shown for two consecutive quarters, the testing frequency may be changed to annual. Quarterly testing shall resume if any annual test shows noncompliance. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Sulfur content of the landfill gas being combusted in the flare shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 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
36. VOC emissions shall be measured by USEPA Test Method 18, 25, 25A, or 25C. [District Rule 1081 and 40 CFR 63.1959(d)] Federally Enforceable Through Title V Permit
37. 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
38. The operator of the facility shall maintain a copy of the source test protocol. A copy of the source test results must 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
39. For surface emissions monitoring, once an area has reached final grade or within 90 days when the LFG system in the area is commissioned, whichever comes first, surface emissions shall not exceed a methane concentration of 500 parts per million above background at the surface of the landfill. [District Rule 2201] Federally Enforceable Through Title V Permit
40. For surface emissions monitoring, surface monitoring for the landfill area shall be performed quarterly. [District Rule 2201] Federally Enforceable Through Title V Permit
41. For surface emissions monitoring, after an exceedance, the permittee shall initiate correction action within five days and conduct remonitoring within ten days from the initial exceedance. If compliance is shown, an additional remonitoring event is required within one month of the initial exceedance. If the ten day event shows an exceedance, the permittee shall initiate correction action within five days and conduct remonitoring within ten days from the second exceedance. If compliance is shown, an additional remonitoring is required within one month of the initial exceedance. If the second ten day event shows an exceedance, the permittee shall permit and install additional landfill gas wells to correct the problem within 120 days of the initial exceedance. The permittee may utilize an alternative corrective action with prior approval from the APCO or alternative compliance actions as detailed in the Avenal Regional Landfill NSPS/AB32 GCCS Design Plan, Appendices B and F (December 2013). [District Rule 2201] Federally Enforceable Through Title V Permit
42. For surface emissions monitoring, permittee shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at 30-meter intervals (or a site-specific established spacing) and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. The owner or operator may establish an alternative traversing pattern that ensures equivalent coverage. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

43. For surface emissions monitoring, surface testing shall be performed using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in 40 CFR 63.1960(d). [District Rule 2201] Federally Enforceable Through Title V Permit
44. For surface emissions monitoring, the portable analyzer shall meet the instrument specifications of Method 21, section 3 (except that "methane" shall replace all references to VOC). The calibration gas shall be methane, diluted to a nominal concentration of 500 parts per million in air. To meet the performance evaluation requirements of Method 21, section 3.1.3, the instrument evaluation procedures of Method 21, section 4.4. The calibration procedures provided in Method 21, section 4.2 shall be followed immediately before commencing a surface monitoring survey. [District Rule 2201] Federally Enforceable Through Title V Permit
45. The provisions of this subpart apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed 1 hour for treatment or control devices. [District Rule 2201 and 40 CFR 63.1960(e)] Federally Enforceable Through Title V Permit
46. Permittee shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. [District Rule 2201] Federally Enforceable Through Title V Permit
47. 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
48. During maintenance of the gas collection system or incineration device, emissions of landfill gas shall be minimized during shutdown. [District Rule 2201] Federally Enforceable Through Title V Permit
49. 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
50. The permittee shall notify the APCO by telephone at least 24 hours before performing any scheduled 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. Shutdown of the system due to commissioning criteria not being met does not constitute maintenance work. [District Rule 2201] Federally Enforceable Through Title V Permit
51. Permittee shall maintain records of system inspections including: date, time and inspection results. [District Rule 1070] Federally Enforceable Through Title V Permit
52. Permittee shall maintain records of maintenance related or other collection system and control device downtime, including individual well shutdown. [District Rule 1070] Federally Enforceable Through Title V Permit
53. The operator shall record emission control device source tests for VOC destruction/treatment efficiency. [District Rule 1081] Federally Enforceable Through Title V Permit
54. Permittee shall maintain records of the daily weight of materials received (cubic yards converted to tons) including Class II waste material and soil cover, landfill gas H₂S measurements, and quantity of landfill gas condensate injected into the flare (in gallons). [District Rule 1070] Federally Enforceable Through Title V Permit
55. 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 Rules 2201 and 4102] Federally Enforceable Through Title V Permit
56. A District approved anemometer shall be continuously operated on site with permanent data available to the District. [District Rule 2201] Federally Enforceable Through Title V Permit
57. Wastes with the potential to release hazardous gases, mists, or vapors in excess of existing air quality standards shall not be exposed to the atmosphere, and combustion of flammable wastes in the landfill shall be prevented. [District Rule 2201] Federally Enforceable Through Title V Permit

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58. Vehicle speeds on all on-site roads shall be limited to fifteen miles per hour. [District Rule 2201] Federally Enforceable Through Title V Permit
59. Materials handling operations associated with landfill construction and operation shall be curtailed when wind and moisture conditions make it likely that any resulting visible emissions will exceed 40% opacity at an elevation of 25 feet. [District Rule 2201] Federally Enforceable Through Title V Permit
60. The permittee shall comply with the following when excavating on-site contaminated soil: 1) Submit a written notice according to Section 6.1 prior to commencement of excavation on-site 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) on-site excavated soil that has been detected as contaminated shall be placed in storage piles or handled as required by Section 5.2 and; 4) on-site 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
61. When handling on-site 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
62. When handling storage piles of on-site excavated contaminated soil the piles shall be clearly isolated and identifiable from storage piles of uncontaminated soil according to Section 6.3.2. [District Rule 4651] Federally Enforceable Through Title V Permit
63. When handling storage piles of on-site excavated 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-foot 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
64. When handling on-site excavated 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
65. When handling on-site excavated 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
66. The permittee shall comply with the following when transporting on-site excavated contaminated soil: 1) Any truck or trailer transporting on-site excavated contaminated soil shall be filled such that contaminated soil does not extend above the sides or rear of the truck; 2) on-site excavated 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
67. When decontaminating on-site excavated contaminated 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

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These terms and conditions are part of the Facility-wide Permit to Operate.

68. When decontaminating on-site excavated contaminated soil, permittee shall monitor temperature, pressure, and flow rates of VOC control device. [District Rule 4651] Federally Enforceable Through Title V Permit
69. When decontaminating on-site excavated contaminated soil, VOC control device shall be operated and maintained in accordance with the manufacturer's recommendations. [District Rule 4651] Federally Enforceable Through Title V Permit
70. 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
71. Permittee shall comply with one of the following regarding on-site excavated 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
72. When decontaminating on-site excavated contaminated soil, decontaminated soil that is to be treated as uncontaminated soil shall require soil samples to be obtained from each storage pile of according to Section 6.6 and tested using the applicable test methods in Section 6.5.3 or Section 6.5.4. [District Rule 4651] Federally Enforceable Through Title V Permit
73. Permittee shall include the following information in the notice of on-site contaminated soil 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, renotification is required), estimated volume of soil to be excavated, estimated volume (in gallons) of VOC liquid spilled in the soil, if known, and where emergency excavation is conducted at the direction of an authorized officer, pursuant to Section 4.3: 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
74. Permittee shall include the following information in the written notice when on-site excavating contaminated soil as required by Section 5.1: 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 on-site excavated contaminated soil. [District Rule 4651] Federally Enforceable Through Title V Permit
75. Permittee shall maintain the following records of on-site excavated contaminated soil at the time custody is transferred off-site: 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 (this section does not apply to Section 4.3), the date and location of on-site 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
76. Permittee shall identify each storage pile of on-site excavated contaminated soil with the following information: location of storage pile, unique identification of storage pile, date that soil storage pile was excavated. [District Rule 4651] Federally Enforceable Through Title V Permit
77. 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 of on-site excavated contaminated soil and name, date, and signature of operator inspecting the storage piles. [District Rule 4651] Federally Enforceable Through Title V Permit
78. Permittee shall maintain the following records for VOC concentration readings of on-site excavated contaminated soil: 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

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These terms and conditions are part of the Facility-wide Permit to Operate.

79. Permittee shall maintain records of calibrations for all approved monitoring instruments. [District Rule 4651] Federally Enforceable Through Title V Permit
80. The operator of a VOC control device used to decontaminate on-site excavated contaminated soil shall demonstrate compliance with the requirements of Section 5.4.1 before operation of such system. [District Rule 4651] Federally Enforceable Through Title V Permit
81. The initial boiling point of a liquid from samples of on-site excavated contaminated soil shall be measured in accordance with ASTM D86 for soil contaminated with petroleum liquid or ASTM D-1078-93 for soil contaminated with known organic chemical. [District Rule 4651] Federally Enforceable Through Title V Permit
82. The VOC concentration of on-site excavated contaminated 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
83. The VOC content of the on-site excavated 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
84. The VOC content of on-site excavated 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
85. An operator may use an equivalent alternative test method to those listed in Sections 6.5.1 through 6.5.4 for which APCO and EPA approval has been obtained. [District Rule 4651] Federally Enforceable Through Title V Permit
86. When more than one test method or set of test methods is specified for any testing of on-site excavated contaminated soil, 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 rule. [District Rule 4651] Federally Enforceable Through Title V Permit
87. One composite sample shall be collected and analyzed for VOC for every 50 cubic yards of on-site excavated contaminated soil that has been determined to be uncontaminated by the test method in Section 6.5.2. At least one (1) composite sample shall be collected from each storage pile of on-site excavated contaminated soil within 12 hours of soil decontamination. [District Rule 4651] Federally Enforceable Through Title V Permit
88. A composite sample shall consist of one sample taken from the center of each of four (4) equal sectors from each storage pile of on-site excavated contaminated soil using the procedures described in Section 6.6.3 or other approved methods. [District Rule 4651] Federally Enforceable Through Title V Permit
89. Samples shall be taken from at least twelve (12) inches below the surface of the storage pile of on-site excavated contaminated soil 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
90. Chain-of-custody records shall be kept by the operators for all samples from storage piles of on-site excavated contaminated soil 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
91. Each owner or operator shall keep for at least 5 years up-to-date, readily accessible, on-site records of the maximum design capacity, 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. [District Rule 2520 and 40 CFR 63.1983(a)] Federally Enforceable Through Title V Permit

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92. This operating permit may be cancelled with APCO approval when the landfill is closed, pursuant to the requirements of this permit, if the landfill is not otherwise subject to the requirements of either 40 CFR part 70 or part 71 and if either 1) it was never subject to the requirement to install and operate a control system under 40 CFR 62.16714 ; or 2) the owner or operator meets the conditions for control system removal specified in 40 CFR 62.16714(f). [40 CFR 62.16714(f)] Federally Enforceable Through Title V Permit
93. If the landfill is permanently closed, a closure notification shall be submitted to the APCO within 30 days of waste disposal cessation. A permanent closure must 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 APCO, pursuant to 40 CFR 63.9(b). [40 CFR 63.1981(f)] Federally Enforceable Through Title V Permit
94. An active collection system shall be designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control or treatment system equipment, collect gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for a period of 5 years or more if active; or 2 years or more if closed or at final grade, collect gas at a sufficient extraction rate, and be designed to minimize off-site migration of subsurface gas. [40 CFR 63.1959(b)(2)(ii)(B)] Federally Enforceable Through Title V Permit
95. Each owner or operator seeking to comply with 40 CFR 63.1959(b)(2)(i) 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 in 63.1962(a)(1), (2), and (3) unless alternative procedures have been approved by the APCO as provided in 63.1981(d)(2) and (3). [40 CFR 63.1962(a)] Federally Enforceable Through Title V Permit
96. For the purposes of calculating the maximum expected gas generation flow rate from the landfill to determine compliance with 63.1959(b)(2)(ii)(C)(1), one of the equations in Section 63.1960(a)(1)(i) or (ii). [40 CFR 63.1960(a)(1)] Federally Enforceable Through Title V Permit
97. For the purposes of determining sufficient density of gas collectors for compliance with 63.1959(b)(2)(ii)(B)(2), the owner or operator shall design a system of vertical wells, horizontal collectors, or other collection devices, satisfactory to the APCO, capable of controlling and extracting gas from all portions of the landfill sufficient to meet all operational and performance standards. [40 CFR 63.1960(a)(2)] Federally Enforceable Through Title V Permit
98. For the purpose of demonstrating whether the gas collection system flow rate is sufficient to determine compliance with 63.1959(b)(2)(ii)(B)(3), the owner or operator shall measure gauge pressure in the gas collection header at each individual well, monthly. If a positive pressure exists, action shall be initiated to correct the exceedance within 5 calendar days, except for the three conditions allowed under 63.1958(b). If negative pressure cannot be achieved without excess air infiltration within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial measurement of positive pressure. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the APCO for approval. Alternative compliance actions as prepared by the permittee are detailed in the Avenal Regional Landfill NSPS/AB32 GCCS Design Plan, Appendix B (December 2013). [40 CFR 63.1960(a)(3)] Federally Enforceable Through Title V Permit
99. For the purpose of identifying whether excess air infiltration into the landfill is occurring, the owner or operator shall monitor each well monthly for temperature and nitrogen or oxygen as provided in 63.1958(c). If a well exceeds one of these operating parameters, action shall be initiated to correct the exceedance within 5 calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance. Any attempted corrective measure shall not cause exceedance of other operational or performance standards. The permittee may utilize an alternative corrective action and timeline with prior approval from the APCO or alternative compliance actions as detailed in the Avenal Regional Landfill NSPS/AB32 GCCS Design Plan, Appendix B (December 2013). [40 CFR 63.1960(a)(4)] Federally Enforceable Through Title V Permit

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100. Surface testing to measure the methane concentration at the surface of the landfill shall be conducted around the perimeter of the collection area and along a pattern that traverses the landfill at 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 owner or operator may establish an alternative traversing pattern that ensures equivalent coverage. 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. [District Rule 2201, 40 CFR 63.1958(d) and 63.1960(c)(1)] Federally Enforceable Through Title V Permit
101. Surface testing to measure the methane concentration at the surface of the landfill shall be conducted on a quarterly basis using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in 40 CFR 63.1960(d). [40 CFR 63.1960(c)(1)] Federally Enforceable Through Title V Permit
102. 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. Compliance with this surface methane operational standard shall be demonstrated quarterly using the procedures outlined in 40 CFR 63.1960(c). [District Rule 2201, 40 CFR 63.1958(d), and 63.1960(c)] Federally Enforceable Through Title V Permit
103. Permittee shall calculate the NMOC emission rate for purposes of determining when the collection and control system can be removed as provided in 40 CFR 63.1957(b)(3) by using the equation found in 40 CFR 63.1959(c). [40 CFR 63.1959(c)] Federally Enforceable Through Title V Permit
104. Permittee shall operate the landfill gas collection system 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: (1) five years or more if active; or (2) two years or more if closed or at final grade. [40 CFR 63.1958(a)] Federally Enforceable Through Title V Permit
105. Permittee shall operate the landfill gas collection system with negative pressure at each wellhead except under the following conditions: (1) A fire or increased well temperature. The owner or operator shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports as provided in 63.1981(h); (2) Use of a geomembrane or synthetic cover. The owner or operator shall develop acceptable pressure limits in the design plan; (3) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the APCO. Alternative compliance actions prepared by the permittee are detailed in the Avenal Regional Landfill NSPS/AB32 GCCS Design Plan, Appendix B (December 2013). [40 CFR 63.1958(b)] Federally Enforceable Through Title V Permit
106. Unless otherwise stated on this permit, the permittee shall operate each interior wellhead in the collection system with a landfill gas temperature less than 62.8 degrees C (145 degrees Fahrenheit) and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. The owner or operator may establish a higher operating temperature, nitrogen, or oxygen value at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decompositions by killing methanogens. [40 CFR 63.1958(c)] Federally Enforceable Through Title V Permit

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107. For LFG extraction wellheads GW-2, GW-4, GW-5, GW-10, GW-12, GW-13, and GW-14D, the permittee shall operate each of these wellheads with a landfill gas temperature less than 141 degrees F and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. The following monitoring requirements are applicable to these wellheads: 1) The permittee shall perform monthly CO monitoring using Draeger tubes, or a District/EPA approved monitoring device, for wellheads with a measured temperature greater than 131 degrees F; 2) If the measured field CO readings are less than 200 ppmv, the well may continue to operate up to a temperature less than 141 degrees F; 3) When the landfill gas temperature exceeds 131 degrees F, if the measured field CO readings are equal to or greater than 200 ppmv and less than or equal to 500 ppmv, the well shall be monitored on a weekly basis to verify that there is no subsurface oxidation occurring. Once the CO levels decrease to below 200 ppmv, the monthly monitoring schedule shall resume; 4) When the landfill gas temperature exceeds 131 degrees F, if the measured field CO readings are in excess of 500 ppmv, the well shall be temporarily closed and documented and a sample shall be obtained within one week of the exceedance and analyzed for CO using EPA Method D-1946. If results confirm the readings are in excess of 500 ppmv, the well shall remain closed and off-line and the District shall be notified within 24 hours of the exceedance; and 5) Upon receiving notification from the District, the permittee shall undertake such actions as directed by the District and/or EPA to further investigate the potential for subsurface oxidation in the area of a wellhead and develop a plan for remediation. [40 CFR 63.1958(c)] Federally Enforceable Through Title V Permit
108. If monitoring demonstrates that the operational requirements in paragraphs (b), (c), or (d) of section 63.1958 are not met, corrective action shall be taken as specified in 40 CFR 63.1960(a)(3) and (5) or (c). If corrective actions are taken as specified in 63.1960, the monitored exceedance is not a violation of the operational requirements in this section. [40 CFR 63.1958(g)] Federally Enforceable Through Title V Permit
109. Each wellhead shall have a sampling port and a thermometer, other temperature-measuring device, or an access port for temperature measurements [40 CFR 63.1961] Federally Enforceable Through Title V Permit
110. When monitoring interior wellheads for operation for a nitrogen level, the nitrogen level shall be determined using Method 3C, unless an alternative test method is established as allowed by 60.752(b)(2)(i) of this subpart. [40 CFR 63.1958(c)] Federally Enforceable Through Title V Permit
111. For each interior wellhead, unless an alternative test method is established as allowed by 60.752(b)(2)(i) of this subpart, the oxygen shall be determined by an oxygen meter using Method 3A or 3C except that: (i) The span shall be set so that the regulatory limit is between 20 and 50 percent of the span; (ii) A data recorder is not required; (iii) Only two calibration gases are required, a zero and span, and ambient air may be used as the span; (iv) A calibration error check is not required; (v) The allowable sample bias, zero drift, and calibration drift are +/-10 percent. Oxygen monitoring at wellheads will be done with a portable meter such as a GEM-2000 or equivalent which have been approved by the EPA. [40 CFR 63.1958(c)] Federally Enforceable Through Title V Permit
112. The background concentration of methane 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. [40 CFR 63.1960(c)(2)] Federally Enforceable Through Title V Permit
113. Surface emission monitoring shall be performed in accordance with section 4.3.1 of Method 21 of Appendix A, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions. Any reading of 500 parts per million or more above background at any location shall be recorded as a monitored exceedance and the actions specified in 40 CFR 63.1960(c)(4)(i-v) shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of 63.1958(d). [40 CFR 63.1960(c)(3) and (4)] Federally Enforceable Through Title V Permit

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114. For the performance test required in 63.1959(b)(2)(iii)(B), Method 25 or 25C of Appendix A must be used to determine compliance with the 98 weight percent efficiency or the 20 ppmv outlet concentration level, unless another method to demonstrate compliance has been approved by the APCO as provided by 63.1981(d)(2). Method 3, 3A, or 3C of Appendix A 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. A Method 18 may be used in conjunction with EPA Method 25A on a limited basis (compound specific, e.g., methane) or EPA Method 3C may be used to determine methane. The methane as carbon should be subtracted from the EPA Method 25A total hydrocarbon value as carbon to give NMOC concentration as carbon. The landowner or operator must 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: $(\text{NMOC}_{\text{in}} - \text{NMOC}_{\text{out}}) / \text{NMOC}_{\text{in}}$. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081 and 40 CFR 63.1959(d)] Federally Enforceable Through Title V Permit
115. Permittee shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis. [40 CFR 63.1960(c)(5)] Federally Enforceable Through Title V Permit
116. The portable analyzer shall meet the instrument specifications of Method 21, section 6 (except that "methane" shall replace all references to VOC). The calibration gas shall be methane, diluted to a nominal concentration of 500 parts per million in air. To meet the performance evaluation requirements of Method 21, section 8.1, the instrument evaluation procedures of Method 21, section 8.1. The calibration procedures provided in Method 21, sections 8 and 10 shall be followed immediately before commencing a surface monitoring survey. The provisions of this condition apply at all times, except during periods of start-up, shutdown, or malfunction (as defined in 40 CFR 63.1960(e)). [40 CFR 63.1960(d) and (e)] Federally Enforceable Through Title V Permit
117. Operator shall measure the gauge pressure in the gas collection header on a monthly basis as provided in 40 CFR 63.1960(a)(3); and monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as provided in 63.1961(a)(2); and monitor temperature of the landfill gas on a monthly basis as provided in 40 CFR 63.1960(a)(4). [40 CFR 63.1961(a)] Federally Enforceable Through Title V Permit
118. Permittee shall submit an equipment removal report to the District 30 days prior to removal or cessation of operation of the control equipment. The report shall conform to the requirements of 40 CFR 63.1987(g)(1). [40 CFR 63.1987(g)] Federally Enforceable Through Title V Permit
119. Each owner or operator seeking to comply with 40 CFR 63.1959(b)(2)(iii) shall include information specified in 40 CFR 63.1981(i)(1-6) with the initial performance test report required under 40 CFR Part 63.7. [40 CFR 63.1981(i)] Federally Enforceable Through Title V Permit
120. The following constitute exceedances that also shall be recorded and reported under 40 CFR 63.198(h)1: all 3-hour periods of operation during which the average combustion temperature was more than 28 degrees C below the average combustion temperature during the most recent performance test (flare source test). [40 CFR 63.1983(c)] Federally Enforceable Through Title V Permit
121. Except as provided in 63.1981(d)(2), each owner or operator of a controlled landfill shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed in paragraphs 63.1983(b)(1) through (b)(5) as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years. Records of the control device vendor specifications shall be maintained until removal. [40 CFR 63.1983(b)] Federally Enforceable Through Title V Permit
122. Permittee shall keep the following records: (1)(i) the maximum expected gas generation flow rate as calculated in 63.1960(a)(1). The owner or operator may use another method to determine the maximum gas generation flow rate, if the method has been approved by the APCO; (ii) the density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in 63.1960(a)(1) and (2); (2)(i) the average combustion temperature measured at least every 15 minutes and averaged over the same time period of the performance test; (ii) the percent reduction of NMOC determined as specified in 63.1959(b)(2)(iii)(B) achieved by the control device. [40 CFR 63.1983(b)(1) and (2)] Federally Enforceable Through Title V Permit

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123. Except as provided in 63.1981(d)(2), 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. Permittee shall keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or nondegradable waste excluded from collection as well as any nonproductive areas excluded from collection. [40 CFR 63.1983(d)] Federally Enforceable Through Title V Permit
124. Except as provided in 63.1981(d)(2), permittee shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in 63.1958, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. [40 CFR 63.1983(e)] Federally Enforceable Through Title V Permit
125. 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. [40 CFR 63.1962(a)(1)] Federally Enforceable Through Title V Permit
126. The placement of gas collection devices determined in paragraph 63.1962(a)(1) shall control all gas producing areas, except as provided by paragraphs 63.1962(a)(3)(i) and (a)(3)(ii). [40 CFR 63.1962(a)(3)] Federally Enforceable Through Title V Permit
127. The sufficient density of gas collection devices determined in paragraph 63.1962(a)(1) 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 60.759(a)(2)] Federally Enforceable Through Title V Permit
128. Any segregated area of asbestos or nondegradable material may be excluded from collection if documented as provided under 63.1983(d). The documentation shall provide the nature, date of deposition, location and amount of asbestos or nondegradable material deposited in the area, and shall be provided to the Administrator upon request. [40 CFR 63.1962(a)(3)(i)] Federally Enforceable Through Title V Permit
129. 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 Administrator upon request. A separate NMOC emissions estimate shall be made for each section proposed for exclusion, and the sum of all such sections shall be compared to the NMOC emissions estimate for the entire landfill. Emissions from each section shall be computed using the equation in Section 63.1962(a)(3)(ii)(A). [40 CFR 63.1962(a)(3)(ii)] Federally Enforceable Through Title V Permit
130. The values for k and CNMOC in equation in Section 63.1962(a)(3)(ii) 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 , L_0 , and CNMOC provided in 63.1959(a)(1) or the alternative values from 63.1959(a)(5) shall be used. The mass of nondegradable 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 nondegradable material is documented as provided in paragraph 63.1962(a)(3)(i). [40 CFR 63.1962(a)(3)(iii)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

131. Each owner or operator seeking to comply with 63.1959(b)(2)(ii) 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; (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 CFR 63.1962(b)] Federally Enforceable Through Title V Permit
132. Each owner or operator seeking to comply with 63.1959(b)(2)(iii) shall convey the landfill gas to a control system in compliance with 63.1959(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 paragraph 63.1962(c)(2) shall be used; (2) For new collection systems, the maximum flow rate shall be in accordance with 63.1960(a)(1). [40 CFR 63.1962(c)] Federally Enforceable Through Title V Permit
133. The gas collection and control system shall comply with the operational standards of 40 CFR 63.1958, the compliance provisions of 40 CFR 63.1960, the monitoring provisions of 40 CFR 63.1961, the reporting and record keeping requirements of 40 CFR 63.1981 and 63.1983, and the requirements of 40 CFR 63.1960 (for active collection systems). [40 CFR 63.1959(b)(2)(ii), 63.1958, 63.1960, 63.1961, 63.1981, 63.1983 and 63.1960] Federally Enforceable Through Title V Permit
134. 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 the landfill gas to the atmosphere shall be closed within one hour. [40 CFR 63.1958(e)] Federally Enforceable Through Title V Permit
135. The owner/operator shall install, calibrate, maintain, and operate a meter that measures and records the landfill gas flow rate into the flare at least once every 15 minutes. This meter shall also be capable of measuring the landfill gas flow rate that might bypass the flare in the event of equipment malfunction or maintenance. [40 CFR 63.1961(c)(2)] Federally Enforceable Through Title V Permit
136. The flare shall be operated with a flame present at all times while gas is being vented to it. The presence of a flame shall be continuously monitored using a thermocouple, ultraviolet sensor, or any other equivalent device located at the pilot light or the flame itself. [40 CFR 60.18(c)(2) and 63.1961(c)(1)] Federally Enforceable Through Title V Permit
137. The enclosed flare shall be equipped with an accurate temperature indicator/recorder that continuously measures and records the operating temperature. [District Rule 2201 and 40 CFR 63.1961(b)(1)] Federally Enforceable Through Title V Permit
138. The enclosed flare shall be equipped with either a device that records flow to the control device at least every 15 minutes; or secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration of the control device. [40 CFR 63.1961] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

139. Any closed landfill that has demonstrated compliance in three consecutive quarterly monitoring periods may perform annual monitoring. Quarterly monitoring shall resume if any methane readings of 500 ppm or more above background are detected during annual monitoring. [40 CFR 63.1961(f)] Federally Enforceable Through Title V Permit
140. Permittee shall keep up-to-date, readily accessible continuous records of the indication of flow to the enclosed flare, or the indication of bypass flow, or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass lines. [40 CFR 63.1983(c)] Federally Enforceable Through Title V Permit
141. Permittee shall develop a written startup, shutdown, and malfunction (SSM) plan according to the provisions of 40 CFR 63.6(e)(3). A copy of the SSM plan shall be maintained on site. Failure to write or maintain a copy of the SSM plan is a deviation from the requirements of 40 CFR 63 Subpart AAAA. [40 CFR 63.1960] Federally Enforceable Through Title V Permit
142. For parameters required to be continuously monitored by 40 CFR 60 Subpart WWW, a deviation of 40 CFR 63 Subpart AAAA shall be deemed to have occurred when 1 hour or more of the hours during the 3-hour block averaging period does not constitute a valid hour of data. A valid hour of data must have measured values for at least three 15-minute monitoring periods within the hour. [40 CFR 63.1965(b)] Federally Enforceable Through Title V Permit
143. Permittee shall keep records and reports as specified in the general provisions of 40 CFR Part 60, and 40 CFR Part 63, as shown in Table 1 of 40 CFR part 63 Subpart AAAA. [40 CFR 63.1980(b)] Federally Enforceable Through Title V Permit
144. Landfill collection and control system must be operated such that methane emissions from the landfill surface do not exceed instantaneous or integrated limit requirements. [17 CCR 95464]
145. Landfill gas collection system wellheads must be operated under vacuum. Monthly monitoring of wellheads is required. Landfill gas collection system wellheads may be operated under neutral or positive pressure when there is a fire or during other times as allowed in sections 95464(c), 95464(d), and 95464(e). [17 CCR 95464]
146. Landfill gas collection system components downstream of blower have a leak limit of 500 ppmv as methane. Components must be checked quarterly. [17 CCR 95464]
147. The flare must have automatic dampers, an automatic shutdown device, a flame arrester, and temperature sensors which record at least every 15 minutes. [17 CCR 95464]
148. The flare must operate within the parameter ranges established during the initial or most recent source test. [17 CCR 95464]
149. Landfill surface methane emissions shall not exceed instantaneous surface emission limit of 500 ppmv as methane or integrated surface emission limit of 25 ppmv as methane. [17 CCR 95464]
150. The owner or operator must conduct an annual source test for methane for any gas control device(s) subject to the requirements of sections 95464(b)(2)(A) or 95464(b)(3)(A) using the test methods identified in 95471(f). An initial source test must be conducted within 180 days of initial start up of the gas collection and control system. Each succeeding complete annual source test must be conducted no later than 45 days after the anniversary date of the initial source test. If a gas control device remains in compliance after three consecutive source tests the owner or operator may conduct the source test every three years. If a subsequent 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)(A)]
151. Instantaneous and integrated landfill surface emissions measurements shall be done quarterly. The landfill may monitor annually provided they comply with requirements of 17 CCR 95469(a)(1). [17 CCR 95469]
152. 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]
153. 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]
154. Permittee shall keep records of the expected gas generation flow rate calculated pursuant to section 95471(e). [17 CCR 95470]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

155. Permittee shall keep records of all instantaneous surface readings of 200 ppmv or greater and all exceedances of the limits in sections 95464(b)(1)(B) or 95465, 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]
156. 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]
157. Permittee shall keep records of the annual solid waste acceptance rate and the current amount of waste-in-place. [17 CCR 95470]
158. 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]
159. Permittee shall keep records of any source tests conducted pursuant to section 95464(b)(4). [17 CCR 95470]
160. 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]
161. Permittee shall keep records of any construction activities pursuant to section 95466. The records must 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. 3. A description of the mitigation measures taken to minimize methane emissions and other potential air quality impacts. [17 CCR 95470]
162. Permittee shall keep records of the equipment operating parameters specified to be monitored under section 95469(b)(1) as well as records for periods of operation during which the parameter boundaries established during the most recent source test are exceeded. The records must include the following information: 1. For enclosed flares, 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 sections 95464(b)(2) was determined and a gas flow rate device which must record the flow to the control device at least every 15 minutes. [17 CCR 95470]
163. Permittee shall submit the following reports as required in section 95470(b): Closure notification, Equipment removal report and Annual report. All reports must be accompanied by a certification of truth, accuracy, and completeness signed by a responsible official. [17 CCR 95470]
164. 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 approved by this permit. Changes to the approved alternate compliance options must be made and approved in writing. Documentation of approved alternative compliance options shall be available for inspection upon request. [17 CCR 95468]
165. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

DRAFT

ATTACHMENT B

Previous Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: C-3839-0-2

EXPIRATION DATE: 06/30/2021

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, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
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, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
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, 5.0] 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 (12/20/07). [District Rules 2010, 3.0 and 4.0, 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 9.12.1] 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] Federally Enforceable Through Title V Permit
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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

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
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 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] 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 (2/17/05). 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] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials for architectural coatings subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] 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 (12/17/09). [District Rule 4601, 6.1 and 6.3] 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 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 82, Subpart B. [40 CFR 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 (8/19/04) or Rule 8011 (8/19/04). [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 (8/19/04) or Rule 8011 (8/19/04). [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 (8/19/04) or Rule 8011 (8/19/04). [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 (8/19/04) or Rule 8011 (8/19/04). [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 (8/19/04) or Rule 8011 (8/19/04). [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 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 (9/16/04) or Rule 8011 (8/19/04). [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
These terms and conditions are part of the Facility-wide Permit to Operate.

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), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), and Rule 111 (Kern, Tulare, Kings). A permit shield is granted from these requirements. [District Rule 2520, 13.2] 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 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601, sections 5.1, 5.2, 5.3 and 5.8 (12/17/09); 8021 (8/19/04); 8031 (8/19/04); 8041 (8/19/04); 8051 (8/19/04); 8061 (8/19/04); and 8071 (9/16/04). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. On June 30, 2010, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, 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
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-3839-1-13

EXPIRATION DATE: 06/30/2021

EQUIPMENT DESCRIPTION:

MUNICIPAL SOLID WASTE LANDFILL, 28.8 MILLION CUBIC YARD CAPACITY (123 ACRES) WITH A 1,000 GALLON CONDENSATE STORAGE TANK AND GAS COLLECTION AND CONTROL SYSTEM WITH A SULFUR SCRUBBER SYSTEM SERVED BY A 45.5 MMBTU/HR FLARE

PERMIT UNIT REQUIREMENTS

1. All new off-road equipment at the landfill shall meet USEPA Tier 3 emission standards and be equipped with CARB certified add-on controls for diesel particulate matter with a control efficiency of at least 82% or shall meet USEPA Tier 4 emission standards. On and after the USEPA Tier 4 compliance deadline, all new off-road equipment at the landfill shall meet the appropriate USEPA Tier 4 emission standard in effect at that time. [California Environmental Quality Act]
2. The landfill facility, associated equipment, and surrounding Avenal Regional 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]
3. 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]
4. 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]
5. Refuse delivery trucks shall be unloaded within a reasonable amount of time after entering the property. [District Rule 4102]
6. All refuse trucks shall be maintained in condition to prevent leakage of solid or liquid material. [District Rule 4102]
7. 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]
8. All trucks delivering refuse shall not be leaking liquid or solid material prior to exiting the landfill site. Trucks shall be cleared of any debris to minimize nuisance emissions. [District Rule 4102]
9. 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]
10. 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]
11. 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
12. The exhaust stack of the flare shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
13. The flare minimum stack height must be at least 40 feet high. [District Rule 4102]

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These terms and conditions are part of the Facility-wide Permit to Operate.

14. The flare maximum stack diameter may be no greater than 8 feet. [District Rule 4102]
15. Emission rate from the enclosed flare shall not exceed any of the following limits: 0.05 lb-NO_x/MMBtu; 0.2 lb-CO/MMBtu; or 0.008 lb-PM₁₀/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
16. VOC emissions (as hexane) from the landfill and flare shall not exceed either of the following limits: 91.9 lb/day or 33,537 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
17. SO_x emissions from the flare shall not exceed 91.7 lb/day calculated as SO₂. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Gas combusted at the flare shall be tested for sulfur (H₂S) content whenever the flow rate to the flare is modified manually either at the flare/blower station, or by adjustments or modifications to the well field that result in flow modifications, OR once quarterly, whichever is sooner. Flow modifications due to natural occurrences do not require testing of the inlet gas for sulfur (H₂S) content unless the flow rate is modified by more than 20% from the flow at the previous inlet gas test date. If Draeger tube monitoring results in a calculated SO_x emission rate greater than 73.0 lb-SO_x/day, the operator shall immediately modify the flow rate to the flare to reduce the SO_x emission rate below 73.0 lb-SO_x/day, or shall determine compliance with the 91.7 lb-SO_x/day emission limit by sampling the flare gas for total reduced sulfur compounds according to the test methods indicated on this permit. [District Rule 2201] Federally Enforceable Through Title V Permit
19. For purposes of demonstrating compliance with the permitted 91.7 lb-SO_x/day emission limit from sulfur content monitoring of the flare gas, the following formula may be used: lb-SO_x/day = 0.000243 x [ppmv sulfur content of flare gas, as H₂S] x [flare rate of landfill gas (scf/min)]. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Concentrations of H₂S shall be monitored during normal working hours at the inlet and outlet of the sulfur scrubber using Draeger tubes or a portable analyzer for sixty days of operation to establish the scrubber's performance and estimated lifespan. Following the monitoring period the permittee shall submit to the District a plan detailing the change out of the sulfur medium. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Operator shall keep a record of all sulfur content monitoring of the flare gas including (1) the date the landfill gas flow rate to the flare was modified; (2) how the landfill gas flow rate was modified (e.g. increasing the gas flow rate on well #1); (3) the type of sulfur monitoring performed on the flare gas (e.g. Draeger tube or ASTM D1072); (4) the results in ppmv, as H₂S; (5) the total flow rate (scf/min) of landfill gas to the flare; (6) the calculated SO_x emission rate in lb-SO₂/day; and (7) records of change out of filter medium of the scrubbers. [District Rule 2201] Federally Enforceable Through Title V Permit
22. The heat input of collected landfill gas into the flare shall not exceed any of the following: 45.5 MMBtu/hr or 398,580 MMBtu/year. Heat input shall be calculated daily using monthly methane measurements (%), landfill gas flow into the flare (cubic feet per minute), and the annually tested landfill gas heat content (Btu/cubic foot). [District Rule 2201] Federally Enforceable Through Title V Permit
23. Permittee shall operate the enclosed flare at all times when the collected gas is routed to it. [District Rule 2201 and 40 CFR 60.753(f)] Federally Enforceable Through Title V Permit
24. The flare shall reduce the inlet NMOC emissions by at least 98% by weight. [District Rule 2201 and 40 CFR 60.752(b)(2)(iii)(B) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
25. NMOC collection efficiency shall be at least 85% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Total soil cover usage rate shall not exceed 3,523 tons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Total Class III waste material rate shall not exceed either of the following limits: 6,013 tons per day or 2,194,602 ton/year. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Total PM₁₀ emissions from handling of soil cover shall not exceed 0.0023 lb-PM₁₀ per ton of material handled. [District Rule 2201] Federally Enforceable Through Title V Permit

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29. The owner or operator shall maintain a non-resettable, totalizing volumetric flow meter to continuously measure the amount of landfill gas condensate injected in the flare. [District Rule 2201] Federally Enforceable Through Title V Permit
30. The landfill gas condensate injection rate shall not exceed 5 gallons per minute. [District Rule 2201] Federally Enforceable Through Title V Permit
31. Source testing to demonstrate compliance with the flare VOC, NO_x, and CO emission limits and VOC control efficiency requirements shall be conducted at least once every 12 months. [District Rule 2201] Federally Enforceable Through Title V Permit
32. Source testing for NO_x shall be conducted using EPA Test Method 7E or CARB Method 100. [District Rule 1081] Federally Enforceable Through Title V Permit
33. Source testing for CO shall be conducted using EPA Test Method 10 or 10B, CARB Methods 1-5 with 10 or CARB Test Method 100. [District Rule 1081] Federally Enforceable Through Title V Permit
34. Gas combusted in the flares shall be tested for H₂S content on a quarterly basis using Draeger tubes. If compliance is shown for two consecutive quarters, the testing frequency may be changed to annual. Quarterly testing shall resume if any annual test shows noncompliance. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Sulfur content of the landfill gas being combusted in the flare shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 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
36. VOC emissions shall be measured by USEPA Test Method 18, 25, 25A, or 25C. [District Rule 1081 and 40 CFR 60.754(d)] Federally Enforceable Through Title V Permit
37. 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
38. The operator of the facility shall maintain a copy of the source test protocol. A copy of the source test results must 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
39. For surface emissions monitoring, once an area has reached final grade or within 90 days when the LFG system in the area is commissioned, whichever comes first, surface emissions shall not exceed a methane concentration of 500 parts per million above background at the surface of the landfill. [District Rule 2201] Federally Enforceable Through Title V Permit
40. For surface emissions monitoring, surface monitoring for the landfill area shall be performed quarterly. [District Rule 2201] Federally Enforceable Through Title V Permit
41. For surface emissions monitoring, after an exceedance, the permittee shall initiate correction action within five days and conduct remonitoring within ten days from the initial exceedance. If compliance is shown, an additional remonitoring event is required within one month of the initial exceedance. If the ten day event shows an exceedance, the permittee shall initiate correction action within five days and conduct remonitoring within ten days from the second exceedance. If compliance is shown, an additional remonitoring is required within one month of the initial exceedance. If the second ten day event shows an exceedance, the permittee shall permit and install additional landfill gas wells to correct the problem within 120 days of the initial exceedance. The permittee may utilize an alternative corrective action with prior approval from the APCO or alternative compliance actions as detailed in the Avenal Regional Landfill NSPS/AB32 GCCS Design Plan, Appendices B and F (December 2013). [District Rule 2201] Federally Enforceable Through Title V Permit
42. For surface emissions monitoring, permittee shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at 30-meter intervals (or a site-specific established spacing) and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. The owner or operator may establish an alternative traversing pattern that ensures equivalent coverage. [District Rule 2201] Federally Enforceable Through Title V Permit

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43. For surface emissions monitoring, surface testing shall be performed using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in 40 CFR 60.755(d). [District Rule 2201] Federally Enforceable Through Title V Permit
44. For surface emissions monitoring, the portable analyzer shall meet the instrument specifications of Method 21, section 3 (except that "methane" shall replace all references to VOC). The calibration gas shall be methane, diluted to a nominal concentration of 500 parts per million in air. To meet the performance evaluation requirements of Method 21, section 3.1.3, the instrument evaluation procedures of Method 21, section 4.4. The calibration procedures provided in Method 21, section 4.2 shall be followed immediately before commencing a surface monitoring survey. [District Rule 2201] Federally Enforceable Through Title V Permit
45. The provisions of this permit apply at all times, except during periods of start-up, shutdown, or malfunction (as defined in 40 CFR 60.755(e)). [District Rule 2201] Federally Enforceable Through Title V Permit
46. Permittee shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. [District Rule 2201] Federally Enforceable Through Title V Permit
47. 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
48. During maintenance of the gas collection system or incineration device, emissions of landfill gas shall be minimized during shutdown. [District Rule 2201] Federally Enforceable Through Title V Permit
49. 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
50. The permittee shall notify the APCO by telephone at least 24 hours before performing any scheduled 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. Shutdown of the system due to commissioning criteria not being met does not constitute maintenance work. [District Rule 2201] Federally Enforceable Through Title V Permit
51. Permittee shall maintain records of system inspections including: date, time and inspection results. [District Rule 1070] Federally Enforceable Through Title V Permit
52. Permittee shall maintain records of maintenance related or other collection system and control device downtime, including individual well shutdown. [District Rule 1070] Federally Enforceable Through Title V Permit
53. The operator shall record emission control device source tests for VOC destruction/treatment efficiency. [District Rule 1081] Federally Enforceable Through Title V Permit
54. Permittee shall maintain records of the daily weight of materials received (cubic yards converted to tons) including Class II waste material and soil cover, landfill gas H₂S measurements, and quantity of landfill gas condensate injected into the flare (in gallons). [District Rule 1070] Federally Enforceable Through Title V Permit
55. 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 Rules 2201 and 4102] Federally Enforceable Through Title V Permit
56. A District approved anemometer shall be continuously operated on site with permanent data available to the District. [District Rule 2201] Federally Enforceable Through Title V Permit
57. Wastes with the potential to release hazardous gases, mists, or vapors in excess of existing air quality standards shall not be exposed to the atmosphere, and combustion of flammable wastes in the landfill shall be prevented. [District Rule 2201] Federally Enforceable Through Title V Permit
58. Vehicle speeds on all on-site roads shall be limited to fifteen miles per hour. [District Rule 2201] Federally Enforceable Through Title V Permit

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59. Materials handling operations associated with landfill construction and operation shall be curtailed when wind and moisture conditions make it likely that any resulting visible emissions will exceed 40% opacity at an elevation of 25 feet. [District Rule 2201] Federally Enforceable Through Title V Permit
60. The permittee shall comply with the following when excavating on-site contaminated soil: 1) Submit a written notice according to Section 6.1 prior to commencement of excavation on-site 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) on-site excavated soil that has been detected as contaminated shall be placed in storage piles or handled as required by Section 5.2 and; 4) on-site 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
61. When handling on-site 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
62. When handling storage piles of on-site excavated contaminated soil the piles shall be clearly isolated and identifiable from storage piles of uncontaminated soil according to Section 6.3.2. [District Rule 4651] Federally Enforceable Through Title V Permit
63. When handling storage piles of on-site excavated 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-foot 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
64. When handling on-site excavated 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
65. When handling on-site excavated 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
66. The permittee shall comply with the following when transporting on-site excavated contaminated soil: 1) Any truck or trailer transporting on-site excavated contaminated soil shall be filled such that contaminated soil does not extend above the sides or rear of the truck; 2) on-site excavated 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
67. When decontaminating on-site excavated contaminated 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
68. When decontaminating on-site excavated contaminated soil, permittee shall monitor temperature, pressure, and flow rates of VOC control device. [District Rule 4651] Federally Enforceable Through Title V Permit

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69. When decontaminating on-site excavated contaminated soil, VOC control device shall be operated and maintained in accordance with the manufacturer's recommendations. [District Rule 4651] Federally Enforceable Through Title V Permit
70. 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
71. Permittee shall comply with one of the following regarding on-site excavated 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
72. When decontaminating on-site excavated contaminated soil, decontaminated soil that is to be treated as uncontaminated soil shall require soil samples to be obtained from each storage pile of according to Section 6.6 and tested using the applicable test methods in Section 6.5.3 or Section 6.5.4. [District Rule 4651] Federally Enforceable Through Title V Permit
73. Permittee shall include the following information in the notice of on-site contaminated soil 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, renotification is required), estimated volume of soil to be excavated, estimated volume (in gallons) of VOC liquid spilled in the soil, if known, and where emergency excavation is conducted at the direction of an authorized officer, pursuant to Section 4.3: 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
74. Permittee shall include the following information in the written notice when on-site excavating contaminated soil as required by Section 5.1: 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 on-site excavated contaminated soil. [District Rule 4651] Federally Enforceable Through Title V Permit
75. Permittee shall maintain the following records of on-site excavated contaminated soil at the time custody is transferred off-site: 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 (this section does not apply to Section 4.3), the date and location of on-site 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
76. Permittee shall identify each storage pile of on-site excavated contaminated soil with the following information: location of storage pile, unique identification of storage pile, date that soil storage pile was excavated. [District Rule 4651] Federally Enforceable Through Title V Permit
77. 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 of on-site excavated contaminated soil and name, date, and signature of operator inspecting the storage piles. [District Rule 4651] Federally Enforceable Through Title V Permit
78. Permittee shall maintain the following records for VOC concentration readings of on-site excavated contaminated soil: 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
79. Permittee shall maintain records of calibrations for all approved monitoring instruments. [District Rule 4651] Federally Enforceable Through Title V Permit

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80. The operator of a VOC control device used to decontaminate on-site excavated contaminated soil shall demonstrate compliance with the requirements of Section 5.4.1 before operation of such system. [District Rule 4651] Federally Enforceable Through Title V Permit
81. The initial boiling point of a liquid from samples of on-site excavated contaminated soil shall be measured in accordance with ASTM D86 for soil contaminated with petroleum liquid or ASTM D-1078-93 for soil contaminated with known organic chemical. [District Rule 4651] Federally Enforceable Through Title V Permit
82. The VOC concentration of on-site excavated contaminated 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
83. The VOC content of the on-site excavated 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
84. The VOC content of on-site excavated 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
85. An operator may use an equivalent alternative test method to those listed in Sections 6.5.1 through 6.5.4 for which APCO and EPA approval has been obtained. [District Rule 4651] Federally Enforceable Through Title V Permit
86. When more than one test method or set of test methods is specified for any testing of on-site excavated contaminated soil, 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 rule. [District Rule 4651] Federally Enforceable Through Title V Permit
87. One composite sample shall be collected and analyzed for VOC for every 50 cubic yards of on-site excavated contaminated soil that has been determined to be uncontaminated by the test method in Section 6.5.2. At least one (1) composite sample shall be collected from each storage pile of on-site excavated contaminated soil within 12 hours of soil decontamination. [District Rule 4651] Federally Enforceable Through Title V Permit
88. A composite sample shall consist of one sample taken from the center of each of four (4) equal sectors from each storage pile of on-site excavated contaminated soil using the procedures described in Section 6.6.3 or other approved methods. [District Rule 4651] Federally Enforceable Through Title V Permit
89. Samples shall be taken from at least twelve (12) inches below the surface of the storage pile of on-site excavated contaminated soil 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
90. Chain-of-custody records shall be kept by the operators for all samples from storage piles of on-site excavated contaminated soil 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
91. Each owner or operator shall keep for at least 5 years up-to-date, readily accessible, on-site records of the maximum design capacity, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. [40 CFR 60.758(a), 62.14355(a) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
92. This operating permit may be cancelled with APCO approval when the landfill is closed, pursuant to the requirements of this permit, if the landfill is not otherwise subject to the requirements of either 40 CFR part 70 or part 71 and if either 1) it was never subject to the requirement for a control system under 40 CFR 60.752(b)(2); or 2) the owner or operator meets the conditions for control system removal specified in 40 CFR 60.752(b)(2)(v). [40 CFR 60.752(d) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit

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93. If the landfill is permanently closed, a closure notification shall be submitted to the APCO within 30 days of waste disposal cessation. A permanent closure must 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 APCO, pursuant to 40 CFR 60.7(a)(4). [40 CFR 60.752(b)(1)(ii)(B), 60.757(d) and 62.14352(f) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
94. An active collection system shall be designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control or treatment system equipment, collect gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for a period of 5 years or more if active; or 2 years or more if closed or at final grade, collect gas at a sufficient extraction rate, and be designed to minimize off-site migration of subsurface gas. [40 CFR 60.752(b)(2)(ii)(A) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
95. Each owner or operator seeking to comply with 40 CFR 60.752(b)(2)(i) 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 in 60.759(a)(1), (2), and (3) unless alternative procedures have been approved by the APCO as provided in 60.752(b)(2)(i)(C) and (D). [40 CFR 60.759(a) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
96. For the purposes of calculating the maximum expected gas generation flow rate from the landfill to determine compliance with 60.752(b)(2)(ii)(A)(1), one of the equations in Section 60.755(a)(1)(i) or (ii) or (iii) shall be used. [40 CFR 60.755(a)(1) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
97. For the purposes of determining sufficient density of gas collectors for compliance with 60.752(b)(2)(ii)(A)(2), the owner or operator shall design a system of vertical wells, horizontal collectors, or other collection devices, satisfactory to the APCO, capable of controlling and extracting gas from all portions of the landfill sufficient to meet all operational and performance standards. [40 CFR 60.755(a)(2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
98. For the purpose of demonstrating whether the gas collection system flow rate is sufficient to determine compliance with 60.752(b)(2)(ii)(A)(3), the owner or operator shall measure gauge pressure in the gas collection header at each individual well, monthly. If a positive pressure exists, action shall be initiated to correct the exceedance within 5 calendar days, except for the three conditions allowed under 60.753(b). If negative pressure cannot be achieved without excess air infiltration within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial measurement of positive pressure. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the APCO for approval. Alternative compliance actions as prepared by the permittee are detailed in the Avenal Regional Landfill NSPS/AB32 GCCS Design Plan, Appendix B (December 2013). [40 CFR 60.755(a)(3) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
99. For the purpose of identifying whether excess air infiltration into the landfill is occurring, the owner or operator shall monitor each well monthly for temperature and nitrogen or oxygen as provided in 60.753(c). If a well exceeds one of these operating parameters, action shall be initiated to correct the exceedance within 5 calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance. Any attempted corrective measure shall not cause exceedance of other operational or performance standards. The permittee may utilize an alternative corrective action and timeline with prior approval from the APCO or alternative compliance actions as detailed in the Avenal Regional Landfill NSPS/AB32 GCCS Design Plan, Appendix B (December 2013). [40 CFR 60.755(a)(5) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
100. The provisions of this subpart apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed 1 hour for treatment or control devices. [40 CFR 60.755(e) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit

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101. Surface testing to measure the methane concentration at the surface of the landfill shall be conducted around the perimeter of the collection area and along a pattern that traverses the landfill at 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 owner or operator may establish an alternative traversing pattern that ensures equivalent coverage. 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. [District Rule 2201, 40 CFR 60.753(d) and 60.755(c)(1) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
102. Surface testing to measure the methane concentration at the surface of the landfill shall be conducted on a quarterly basis using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in 40 CFR 60.755(d). [40 CFR 60.755(c)(1) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
103. 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. Compliance with this surface methane operational standard shall be demonstrated quarterly using the procedures outlined in 40 CFR 60.755(c). [District Rule 2201, 40 CFR 60.753(d), 60.755(c), and 60.8 and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
104. Permittee shall calculate the NMOC emission rate for purposes of determining when the collection and control system can be removed as provided in 40 CFR 60.752(b)(2)(v) by using the equation found in 40 CFR 60.754(b). [40 CFR 60.754(b) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
105. Permittee shall operate the landfill gas collection system 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: (1) five years or more if active; or (2) two years or more if closed or at final grade. [40 CFR 60.753(a) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
106. Permittee shall operate the landfill gas collection system with negative pressure at each wellhead except under the following conditions: (1) A fire or increased well temperature. The owner or operator shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports as provided in 60.757(f)(1); (2) Use of a geomembrane or synthetic cover. The owner or operator shall develop acceptable pressure limits in the design plan; (3) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the APCO. Alternative compliance actions prepared by the permittee are detailed in the Avenal Regional Landfill NSPS/AB32 GCCS Design Plan, Appendix B (December 2013). [40 CFR 60.753(b) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
107. Unless otherwise stated on this permit, the permittee shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55 degrees C and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. The owner or operator may establish a higher operating temperature, nitrogen, or oxygen value at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decompositions by killing methanogens. [40 CFR 60.753(c) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit

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108. For LFG extraction wellheads GW-2, GW-4, GW-5, GW-10, GW-12, GW-13, and GW-14D, the permittee shall operate each of these wellheads with a landfill gas temperature less than 141 degrees F and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. The following monitoring requirements are applicable to these wellheads: 1) The permittee shall perform monthly CO monitoring using Draeger tubes, or a District/EPA approved monitoring device, for wellheads with a measured temperature greater than 131 degrees F; 2) If the measured field CO readings are less than 200 ppmv, the well may continue to operate up to a temperature less than 141 degrees F; 3) When the landfill gas temperature exceeds 131 degrees F, if the measured field CO readings are equal to or greater than 200 ppmv and less than or equal to 500 ppmv, the well shall be monitored on a weekly basis to verify that there is no subsurface oxidation occurring. Once the CO levels decrease to below 200 ppmv, the monthly monitoring schedule shall resume; 4) When the landfill gas temperature exceeds 131 degrees F, if the measured field CO readings are in excess of 500 ppmv, the well shall be temporarily closed and documented and a sample shall be obtained within one week of the exceedance and analyzed for CO using EPA Method D-1946. If results confirm the readings are in excess of 500 ppmv, the well shall remain closed and off-line and the District shall be notified within 24 hours of the exceedance; and 5) Upon receiving notification from the District, the permittee shall undertake such actions as directed by the District and/or EPA to further investigate the potential for subsurface oxidation in the area of a wellhead and develop a plan for remediation. [40 CFR 60.753(c) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
109. If monitoring demonstrates that the operational requirements in paragraphs (b), (c), or (d) of section 60.753 are not met, corrective action shall be taken as specified in 40 CFR 60.755(a)(3 - 5) or (c). If corrective actions are taken as specified in 60.755, the monitored exceedance is not a violation of the operational requirements in this section. [40 CFR 60.753(g) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
110. Each wellhead shall have a sampling port and a thermometer, other temperature-measuring device, or an access port for temperature measurements. [40 CFR 60.756(a) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
111. When monitoring interior wellheads for operation for a nitrogen level, the nitrogen level shall be determined using Method 3C, unless an alternative test method is established as allowed by 60.752(b)(2)(i) of this subpart. [40 CFR 60.753(c)(1) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
112. For each interior wellhead, unless an alternative test method is established as allowed by 60.752(b)(2)(i) of this subpart, the oxygen shall be determined by an oxygen meter using Method 3A or 3C except that: (i) The span shall be set so that the regulatory limit is between 20 and 50 percent of the span; (ii) A data recorder is not required; (iii) Only two calibration gases are required, a zero and span, and ambient air may be used as the span; (iv) A calibration error check is not required; (v) The allowable sample bias, zero drift, and calibration drift are +/-10 percent. Oxygen monitoring at wellheads will be done with a portable meter such as a GEM-2000 or equivalent which have been approved by the EPA. [40 CFR 60.753(c)(2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
113. The background concentration of methane 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. [40 CFR 60.755(c)(2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
114. Surface emission monitoring shall be performed in accordance with section 4.3.1 of Method 21 of Appendix A, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions. Any reading of 500 parts per million or more above background at any location shall be recorded as a monitored exceedance and the actions specified in 40 CFR 60.755(c)(4)(i-v) shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of 60.753(d). [40 CFR 60.755(c)(3) and (4) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit

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115. For the performance test required in 60.752(b)(2)(iii)(B), Method 25, 25C, or Method 18 of Appendix A must be used to determine compliance with the 98 weight percent efficiency or the 20 ppmv outlet concentration level, unless another method to demonstrate compliance has been approved by the APCO as provided by 60.752(b)(2)(i)(B). Method 3 or 3A 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. If using Method 18 of Appendix A, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). The following equation shall be used to calculate efficiency: $(\text{NMOC}_{\text{in}} - \text{NMOC}_{\text{out}}) / \text{NMOC}_{\text{in}}$. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081 and 40 CFR 60.754(d) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
116. Permittee shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis. [40 CFR 60.755(c)(5) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
117. The portable analyzer shall meet the instrument specifications of Method 21, section 3 (except that "methane" shall replace all references to VOC). The calibration gas shall be methane, diluted to a nominal concentration of 500 parts per million in air. To meet the performance evaluation requirements of Method 21, section 3.1.3, the instrument evaluation procedures of Method 21, section 4.4. The calibration procedures provided in Method 21, section 4.2 shall be followed immediately before commencing a surface monitoring survey. The provisions of this condition apply at all times, except during periods of start-up, shutdown, or malfunction (as defined in 40 CFR 60.755(e)). [40 CFR 60.755(d) and (e) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
118. Operator shall measure the gauge pressure in the gas collection header on a monthly basis as provided in 40 CFR 60.755(a)(3); and monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as provided in 40 CFR 60.755(a)(5); and monitor temperature of the landfill gas on a monthly basis as provided in 40 CFR 60.755(a)(5). [40 CFR 60.756(a) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
119. Permittee shall submit an equipment removal report to the District 30 days prior to removal or cessation of operation of the control equipment. The report shall conform to the requirements of 40 CFR 60.757(e)(1). [40 CFR 60.757(e) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
120. Each owner or operator seeking to comply with 40 CFR 60.752(b)(2)(iii) shall include information specified in 40 CFR 60.757(g)(1-6) with the initial performance test report required under 40 CFR Part 60.8. [40 CFR 60.757(g) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
121. The following constitute exceedances that also shall be recorded and reported under 40 CFR 60.757(f): all 3-hour periods of operation during which the average combustion temperature was more than 28 degrees C below the average combustion temperature during the most recent performance test (flare source test). [40 CFR 60.758(c) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
122. Except as provided in 60.752(b)(2)(i)(B), each owner or operator of a controlled landfill shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed in paragraphs 60.758(b)(1) through (b)(4) as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years. Records of the control device vendor specifications shall be maintained until removal. [40 CFR 60.758(b) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
123. Permittee shall keep the following records: (1)(i) the maximum expected gas generation flow rate as calculated in 60.755(a)(1). The owner or operator may use another method to determine the maximum gas generation flow rate, if the method has been approved by the APCO; (ii) the density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in 60.759(a)(1); (2)(i) the average combustion temperature measured at least every 15 minutes and averaged over the same time period of the performance test; (ii) the percent reduction of NMOC determined as specified in 60.752(b)(2)(iii)(B) achieved by the control device. [40 CFR 60.758(b)(1) and (2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit

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124. Except as provided in 60.752(b)(2)(i)(B), 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. Permittee shall keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or nondegradable waste excluded from collection as well as any nonproductive areas excluded from collection. [40 CFR 60.758(d) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
125. Except as provided in 60.752(b)(2)(i)(B), permittee shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in 60.753, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. [40 CFR 60.758(e) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
126. 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. [40 CFR 60.759(a)(1) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
127. The placement of gas collection devices determined in paragraph 60.759(a)(1) shall control all gas producing areas, except as provided by paragraphs 60.759(a)(3)(i) and (a)(3)(ii). [40 CFR 60.759(a)(3) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
128. The sufficient density of gas collection devices determined in paragraph 60.759(a)(1) 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 60.759(a)(2) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
129. Any segregated area of asbestos or nondegradable material may be excluded from collection if documented as provided under 60.758(d). The documentation shall provide the nature, date of deposition, location and amount of asbestos or nondegradable material deposited in the area, and shall be provided to the Administrator upon request. [40 CFR 60.759(a)(3)(i) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
130. 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 Administrator upon request. A separate NMOC emissions estimate shall be made for each section proposed for exclusion, and the sum of all such sections shall be compared to the NMOC emissions estimate for the entire landfill. Emissions from each section shall be computed using the equation in Section 60.759(a)(3)(ii). [40 CFR 60.759(a)(3)(ii) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit
131. The values for k and CNMOC in equation in Section 60.759(a)(3)(ii) 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 , L_0 , and CNMOC provided in 60.754(a)(1) or the alternative values from 60.754(a)(5) shall be used. The mass of nondegradable 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 nondegradable material is documented as provided in paragraph 60.759(a)(3)(i). [40 CFR 60.759(a)(3)(iii) and 40 CFR 63 Subpart AAAAA] Federally Enforceable Through Title V Permit

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132. Each owner or operator seeking to comply with 60.752(b)(2)(i)(A) 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; (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 60.759(b) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
133. Each owner or operator seeking to comply with 60.752(b)(2)(i)(A) shall convey the landfill gas to a control system in compliance with 60.752(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 paragraph 60.759(c)(2) shall be used; (2) For new collection systems, the maximum flow rate shall be in accordance with 60.755(a)(1). [40 CFR 60.759(c) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
134. The gas collection and control system shall comply with the operational standards of 40 CFR 60.753, the compliance provisions of 40 CFR 60.755, the monitoring provisions of 40 CFR 60.756, the reporting and record keeping requirements of 40 CFR 60.757 and 60.758, and the requirements of 40 CFR 60.759 (for active collection systems). [40 CFR 60.752(b)(2)(ii), 60.753, 60.755, 60.756, 60.757, 60.758 and 60.759 and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
135. In the event that the collection or control system becomes inoperable, the gas mover equipment (as defined in 40 CFR 60.751) shall be shut down and all valves in the collection and control system contributing to venting of the landfill gas to the atmosphere shall be closed within one hour. [40 CFR 60.753(e) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
136. The owner/operator shall install, calibrate, maintain, and operate a meter that measures and records the landfill gas flow rate into the flare at least once every 15 minutes. This meter shall also be capable of measuring the landfill gas flow rate that might bypass the flare in the event of equipment malfunction or maintenance. [40 CFR 60.756(c)(2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
137. The flare shall be operated with a flame present at all times while gas is being vented to it. The presence of a flame shall be continuously monitored using a thermocouple, ultraviolet sensor, or any other equivalent device located at the pilot light or the flame itself. [40 CFR 60.18(c)(2) and 60.756(c)(1) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
138. The enclosed flare shall be equipped with an accurate temperature indicator/recorder that continuously measures and records the operating temperature. [District Rule 2201 and 40 CFR 60.756(b)(1) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
139. The enclosed flare shall be equipped with either a device that records flow to the control device at least every 15 minutes; or secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration of the control device. [40 CFR 60.756(b)(2) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit

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140. Any closed landfill that has demonstrated compliance in three consecutive quarterly monitoring periods may perform annual monitoring. Quarterly monitoring shall resume if any methane readings of 500 ppm or more above background are detected during annual monitoring. [40 CFR 60.756(f) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
141. Permittee shall keep up-to-date, readily accessible continuous records of the indication of flow to the enclosed flare, or the indication of bypass flow, or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass lines. [40 CFR 60.758(c) and 40 CFR 63 Subpart AAAA] Federally Enforceable Through Title V Permit
142. Permittee shall develop a written startup, shutdown, and malfunction (SSM) plan according to the provisions of 40 CFR 63.6(e)(3). A copy of the SSM plan shall be maintained on site. Failure to write or maintain a copy of the SSM plan is a deviation from the requirements of 40 CFR 63 Subpart AAAA. [40 CFR 63.1960] Federally Enforceable Through Title V Permit
143. For parameters required to be continuously monitored by 40 CFR 60 Subpart WWW, a deviation of 40 CFR 63 Subpart AAAA shall be deemed to have occurred when 1 hour or more of the hours during the 3-hour block averaging period does not constitute a valid hour of data. A valid hour of data must have measured values for at least three 15-minute monitoring periods within the hour. [40 CFR 63.1965(b)] Federally Enforceable Through Title V Permit
144. Permittee shall keep records and reports as specified in the general provisions of 40 CFR Part 60, and 40 CFR Part 63, as shown in Table 1 of 40 CFR part 63 Subpart AAAA. [40 CFR 63.1980(b)] Federally Enforceable Through Title V Permit
145. Landfill collection and control system must be operated such that methane emissions from the landfill surface do not exceed instantaneous or integrated limit requirements. [17 CCR 95464]
146. Landfill gas collection system wellheads must be operated under vacuum. Monthly monitoring of wellheads is required. Landfill gas collection system wellheads may be operated under neutral or positive pressure when there is a fire or during other times as allowed in sections 95464(c), 95464(d), and 95464(e). [17 CCR 95464]
147. Landfill gas collection system components downstream of blower have a leak limit of 500 ppmv as methane. Components must be checked quarterly. [17 CCR 95464]
148. The flare must have automatic dampers, an automatic shutdown device, a flame arrester, and temperature sensors which record at least every 15 minutes. [17 CCR 95464]
149. The flare must operate within the parameter ranges established during the initial or most recent source test. [17 CCR 95464]
150. Landfill surface methane emissions shall not exceed instantaneous surface emission limit of 500 ppmv as methane or integrated surface emission limit of 25 ppmv as methane. [17 CCR 95464]
151. The owner or operator must conduct an annual source test for methane for any gas control device(s) subject to the requirements of sections 95464(b)(2)(A) or 95464(b)(3)(A) using the test methods identified in 95471(f). An initial source test must be conducted within 180 days of initial start up of the gas collection and control system. Each succeeding complete annual source test must be conducted no later than 45 days after the anniversary date of the initial source test. If a gas control device remains in compliance after three consecutive source tests the owner or operator may conduct the source test every three years. If a subsequent 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)(A)]
152. Instantaneous and integrated landfill surface emissions measurements shall be done quarterly. The landfill may monitor annually provided they comply with requirements of 17 CCR 95469(a)(1). [17 CCR 95469]
153. 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]
154. 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]
155. Permittee shall keep records of the expected gas generation flow rate calculated pursuant to section 95471(e). [17 CCR 95470]

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156. Permittee shall keep records of all instantaneous surface readings of 200 ppmv or greater and all exceedances of the limits in sections 95464(b)(1)(B) or 95465, 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]
157. 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]
158. Permittee shall keep records of the annual solid waste acceptance rate and the current amount of waste-in-place. [17 CCR 95470]
159. 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]
160. Permittee shall keep records of any source tests conducted pursuant to section 95464(b)(4). [17 CCR 95470]
161. 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]
162. Permittee shall keep records of any construction activities pursuant to section 95466. The records must 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. 3. A description of the mitigation measures taken to minimize methane emissions and other potential air quality impacts. [17 CCR 95470]
163. Permittee shall keep records of the equipment operating parameters specified to be monitored under section 95469(b)(1) as well as records for periods of operation during which the parameter boundaries established during the most recent source test are exceeded. The records must include the following information: 1. For enclosed flares, 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 sections 95464(b)(2) was determined and a gas flow rate device which must record the flow to the control device at least every 15 minutes. [17 CCR 95470]
164. Permittee shall submit the following reports as required in section 95470(b): Closure notification, Equipment removal report and Annual report. All reports must be accompanied by a certification of truth, accuracy, and completeness signed by a responsible official. [17 CCR 95470]
165. 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 approved by this permit. Changes to the approved alternate compliance options must be made and approved in writing. Documentation of approved alternative compliance options shall be available for inspection upon request. [17 CCR 95468]
166. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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ATTACHMENT C

Detailed Summary List of Facility Permits

Detailed Facility Report
For Facility=3839 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

AVENAL REGIONAL LANDFILL 201 HYDRIL RD AVENAL, CA 93204	FAC # STATUS: TELEPHONE:	C 3839 A 5593865766	TYPE: TOXIC ID:	TitleV 52780	EXPIRE ON: AREA: INSP. DATE:	06/30/2021 8 / 08/22
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
C-3839-1-13	123 acres	3020-12 U	123	121.00	3,308.00	A	MUNICIPAL SOLID WASTE LANDFILL, 28.8 MILLION CUBIC YARD CAPACITY (123 ACRES) WITH A 1,000 GALLON CONDENSATE STORAGE TANK AND GAS COLLECTION AND CONTROL SYSTEM WITH A SULFUR SCRUBBER SYSTEM SERVED BY A 45.5 MMBTU/HR FLARE

Number of Facilities Reported: 1