

**WASHINGTON STATE DEPARTMENT OF ECOLOGY
CENTRAL REGIONAL OFFICE
15 W YAKIMA, SUITE 200
YAKIMA, WASHINGTON 98902**

IN THE MATTER OF THE COMPLIANCE BY)
REGIONAL DISPOSAL COMPANY)
ROOSEVELT REGIONAL LANDFILL) **FINAL AIR OPERATING PERMIT**
with Section 70.94.161 RCW, Operating Permits for) No. 08AQ-C090 First Revision
Air Contaminant Sources, and the applicable rules and)
regulations of the Department of Ecology)

To: Regional Disposal Company
Roosevelt Regional Landfill
PO Box 338
Roosevelt, Washington 99356

Issuance Date: September 16, 2010
Effective Date: September 16, 2010
Expiration Date: December 30, 2013

Responsible Official: Matt Henry, General Manager

Source Location: 500 Roosevelt Grade Road, Roosevelt, Washington

Legal Authority: This AIR OPERATING PERMIT is issued under the authority and provisions of the Federal Clean Air Act, (42 U.S.C. 7401, et seq.), the Washington Clean Air Act, Chapter 70.94 Revised Code of Washington and the Operating Permit Regulation, Chapter 173-401 Washington Administrative Code.

Hereinafter, Regional Disposal Company is called the permittee. The permittee is required to comply with the provisions contained within this permit.

The original permit renewal, per WAC 173-401-710(1), was DATED the 31st day of December, 2008. This Permit Modification, per WAC 173-401-725(4), is DATED at Yakima, Washington this 16th day of September, 2010.

REVIEWED BY: _____
Lynnette A. Haller, PE
Regional Air Quality Section
Department of Ecology
State of Washington

APPROVED BY: _____
Susan M. Billings
Section Manager
Regional Air Quality Section
Department of Ecology
State of Washington

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LIST OF ABBREVIATIONS

| | |
|-------------------|--|
| Btu | British Thermal Units |
| °C | Degrees Celsius |
| CFR | Code of Federal Regulations |
| CO | Carbon Monoxide |
| dscf | Dry Standard Cubic Foot |
| dscfm | Dry Standard Cubic Feet per minute |
| Ecology | Washington State Department of Ecology |
| EPA | United States Environmental Protection Agency |
| °F | Degrees Fahrenheit |
| FCAA | Federal Clean Air Act |
| FDCP | Fugitive Dust Control Plan |
| ft ³ | Cubic foot |
| gr/dscf | Grains per dry standard cubic foot |
| HCl | Hydrogen Chloride |
| hr | Hour |
| H ₂ S | Hydrogen Sulfide |
| lb | Pound |
| LFG | Landfill Gas |
| m ³ | Cubic Meters |
| Mg | megagram |
| MMBtu | Million Btu |
| M _{NMOC} | Total NMOC emission rate from the landfill |
| MSW | Municipal Solid Waste |
| MVAC | Motor Vehicle Air Conditioner |
| N ₂ | Nitrogen |
| NESHAP | National Emission Standard for Hazardous Air Pollutants |
| NMOC | Non-Methane Organic Compound |
| NOC | Notice of Construction |
| NO _x | Oxides of Nitrogen |
| NSPS | New Source Performance Standard |
| O ₂ | Oxygen |
| O&M | Operation & Maintenance |
| PCBs | Polychlorinated Biphenols |
| PM | Particulate Matter |
| PM _{2.5} | Particulate Matter with aerodynamic diameter ≤ 2.5 micrometers |
| PM ₁₀ | Particulate Matter with aerodynamic diameter ≤ 10 micrometers |
| ppm _v | Parts per million by volume |
| PSD | Prevention of Significant Deterioration |
| Q | Flow |
| RACT | Reasonably Available Control Technology |
| RCW | Revised Code of Washington |
| RM | Reference Method |
| scfm | Standard Cubic Feet per Minute |
| SIP | State Implementation Plan |
| SO ₂ | Sulfur Dioxide |
| T | Temperature |
| TAP | Toxic Air Pollutant |
| TPD | Tons Per Day |
| TPY | Tons Per Year |
| TSP | Total Suspended Particulate |
| VOC | Volatile Organic Compound |
| WAC | Washington Administrative Code |
| w% | Percentage by Weight |
| yr | Year |

PERMIT CONDITIONS

1.0 PERMIT PROVISOS

1.1 Permit Shield

1.1.1 Compliance with the conditions of this permit shall be deemed compliance with those applicable requirements that are specifically included in and identified in the permit as of the date of permit issuance. [WAC 173-401-640(1), 9/16/02]

1.1.2 The permit shield shall not apply to any insignificant emission unit or activity designated under WAC 173-401-530. [WAC 173-401-530, 9/16/02]

1.2 Severability

If any provision of this permit is held to be invalid, all unaffected provisions of the permit shall remain in effect and be enforceable. [WAC 173-401-620(2)(h), 9/16/02; RCW 70.94.905, 2008 (S)]

1.3 Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege. [WAC 173-401-620(2)(d), 9/16/02]

1.4 Transfer of Ownership or Operation

A change in ownership or operational control of this source is treated as an administrative permit amendment if no other change in this permit is necessary and provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the Department of Ecology (Ecology). [WAC 173-401-720(1)(d), 9/16/02]

1.5 Emissions Trading

No permit revision shall be required, under any approved economic incentives, marketable permits, emission trading, and other similar programs or processes for changes that are provided for in this permit. [WAC 173-401-620(2)(g), 9/16/02]

1.6 Enforceability

All terms and conditions of the permit are enforceable by the United States Environmental Protection Agency (EPA) and citizens, unless specifically designated as state enforceable. [WAC 173-401-625, 9/16/02]

1.7 General Obligation - Exclusions

Nothing in this permit shall alter or affect the following:

1.7.1 The provisions of section 303 of the FCAA (emergency orders), including the authority of the administrator under that section;

1.7.2 The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

1.7.3 The applicable requirements of the acid rain program, consistent with section 408(a) of the FCAA;

1.7.4 The ability of EPA to obtain information from a source pursuant to section 114 of the FCAA; or

1.7.5 The ability of Ecology to establish or revise requirements for the use of Reasonably Available Control Technology (RACT) as provided in Chapter 252, Laws of 1993.

[WAC 173-401-640(4), 9/16/02]

1.8 **Reasonably Available Control Technology**

1.8.1 Emission standards and other requirements contained in rules or regulatory orders in effect at the time of operating permit issuance or renewal shall be considered RACT for the purpose of permit issuance or renewal.

1.8.2 This does not preclude RACT determinations under Section 8, Chapter 252, Laws of 1993, which shall be incorporated into an operating permit as provided in WAC 173-401-730.

[WAC 173-401-605(3), 9/16/02; RCW 70.94.154, 2008 (S) WAC 173-400-070(2)(b), 8/20/93, 9/6/07 (S)]

1.9 **Need to halt or reduce activity not a defense**

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 this permit. [WAC 173-401-620(2)(b), 9/16/02]

1.10 **Permit Actions**

1.10.1 This permit may be modified, revoked, reopened, and reissued, or terminated for cause.

1.10.2 The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

[WAC 173-401-620(2)(c), 9/16/02]

1.11 **Permit Continuation**

1.11.1 This permit and all terms and conditions contained therein, including any permit shield provided under WAC 173-401-640, shall not expire until the renewal permit has been issued or denied if a timely and complete renewal application has been submitted.

1.11.2 An application shield granted pursuant to WAC 173-401-705(2) shall remain in effect until the renewal permit has been issued or denied if a timely and complete renewal application has been submitted.

[WAC 173-401-620(2)(j), 9/16/02]

1.12 **Permit Appeals**

1.12.1 This permit or any conditions in it may be appealed using the process outlined below.

1.12.1.1 To appeal this permit or any conditions in it, you must:

- File your appeal with the Pollution Control Hearings Board (“Board”) **within 30 days** of the “date of receipt” of this document. Filing means actual receipt by the Board during regular office hours.
- Serve your appeal on the Department of Ecology **within 30 days** of the “date of receipt” of this document. Service may be accomplished by any of the procedures identified in WAC 371-08-305(10). “Date of receipt” is defined at RCW 43.21B.001(2).

Be sure to do the following:

- Include a copy of (1) the permit you are appealing and (2) the application for the permit.
- Serve and file your appeal in paper form; electronic copies are not accepted.

1.12.1.2 To file your appeal with the Pollution Control Hearings Board, mail appeal to:
The Pollution Control Hearings Board
PO Box 40903
Olympia, WA 98504-0903

Or deliver your appeal in person to:
The Pollution Control Hearings Board
4224 – 6th Ave SE Rowe Six, Bldg 2
Lacey, WA 98503

1.12.1.3 To serve your appeal on the Department of Ecology, mail appeal to:
The Department of Ecology
Appeals Coordinator
P.O. Box 47608
Olympia, WA 98504-7608

Or deliver your appeal in person to:
The Department of Ecology
Appeals Coordinator
300 Desmond Dr SE
Lacey, WA 98503

and send a copy of your appeal to:
Susan Billings
Department of Ecology
Central Regional Office
15 West Yakima Avenue, Suite 200
Yakima, Washington 98902-3452

1.12.2 This provision for appeal in this section is separate from, and additional, to any federal rights to petition and review under section 505(b) of the FCAA.

[WAC 173-401-620(2)(i), 9/16/02; RCW 70.94.221, 2008 (S)]

2.0 PERMIT ADMINISTRATION

2.1 Duty to Comply

2.1.1 The permittee must comply with all conditions of this Chapter 173-401 WAC permit.

2.1.2 Any permit noncompliance constitutes a violation of Chapter 70.94 RCW and, for federally enforceable provisions, a violation of the FCAA. Such violations are grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

[WAC 173-401-620(2)(a), 9/16/02]

2.2 **Inspection and Entry**

Upon presentation of credentials and other documents as may be required by law, the permittee shall allow Ecology, or an authorized representative, to perform the following:

- 2.2.1 Enter upon the permittee’s premises where a Chapter 173-401 WAC source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
- 2.2.2 Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- 2.2.3 Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
- 2.2.4 As authorized by WAC 173-400-105 and the FCAA, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.

[WAC 173-401-630(2), 9/16/02; RCW 70.94.200, 2008 (S)]

2.2.4.1 Ecology may require the permittee to conduct stack and/or ambient air monitoring and report the results to Ecology. [WAC 173-400-105(2), 8/20/93, 9/6/07 (S)]

2.2.4.2 Ecology may conduct or require that a test be conducted using approved EPA methods from 40 CFR part 60, Appendix A or approved procedures contained in “Source Test Manual - Procedures for Compliance Testing,” Ecology, 7/12/90. The permittee may be required to provide platform and sampling ports. Ecology shall be allowed to obtain a sample from any emission unit. The permittee shall be given the opportunity to observe the sampling and to obtain a sample at the same time. [WAC 173-400-105(4), 8/20/93, 9/6/07 (S)]

2.2.5 Ecology may conduct source tests and require access to records, books, files, and other information specific to the control, recovery, or release of pollutants regulated under 40 CFR part 61. [WAC 173-400-075(2), 9/6/07 (S)]

2.2.6 No person shall obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. [RCW 70.94.200, 2008 (S)]

2.3 **Permit Fees**

2.3.1 The permittee shall pay fees as a condition of this permit in accordance with Ecology’s fee schedule.

2.3.2 Failure to pay fees in a timely fashion shall subject the permittee to civil and criminal penalties as prescribed in Chapter 70.94 RCW. Ecology may revoke this permit if the permit fees are not paid per WAC 173-401-930(3).

[WAC 173-401-620(2)(f), 9/16/02; RCW 70.94.162(1), 2008; WAC 173-401-930(3), 9/16/02]

2.4 **Duty to Provide Information**

2.4.1 The permittee shall furnish to Ecology, within a reasonable time, any information that Ecology 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.

- 2.4.2 Upon request, the permittee shall also furnish to Ecology 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 the administrator along with a claim of confidentiality. Permitting authorities shall maintain confidentiality of such information in accordance with RCW 70.94.205.

[WAC 173-401-620(2)(e), 9/16/02]

2.5 Recordkeeping

- 2.5.1 Permittee shall keep records of required monitoring information that includes, where applicable, the following:

- 2.5.1.1 The date, place, and time of sampling or measurements;
- 2.5.1.2 The date(s) analyses were performed;
- 2.5.1.3 The company or entity that performed the analyses;
- 2.5.1.4 The analytical techniques or methods used;
- 2.5.1.5 The results of such analyses; and
- 2.5.1.6 The operating conditions as existing at the time of sampling or measurement.

[WAC 173-401-615(2)(a), 9/16/02]

- 2.5.2 Permittee shall keep records describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

[WAC 173-401-615(2)(b), 9/16/02]

- 2.5.3 Permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings from continuous monitoring instrumentation, and copies of all reports required by this permit. [Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Condition 2.10.7; Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.10.3; WAC 173-401-615(2)(c), 9/16/02]

2.6 Reporting

- 2.6.1 Permittee shall submit reports of any required monitoring (i.e., Monitoring, Recordkeeping and Reporting column of section 5) at least once every six (6) months. At a minimum, reports for January 1st through June 30th and July 1st through December 31st, shall be due **August 15th** and **February 15th**, respectively. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with WAC 173-401-520. [WAC 173-401-615(3)(a), 9/16/02]

- 2.6.2 Permittee shall report excursions or deviations from permit requirements, including those attributable to upset conditions, the probable cause of such deviations, and any corrective actions or preventive measures taken. Such deviations shall be reported ‘**promptly**’. For deviations which represent a potential threat to human health or safety, ‘promptly’ means as soon as possible, but in no case later than twelve (12) hours after the deviation is discovered. The source shall maintain a contemporaneous record of all deviations. Other deviations shall be reported no later than **thirty (30) days** after the end of the month during which the excursion or deviation is discovered. Copies of reports shall be sent to Ecology at:

Section Manager
Central Regional Air Quality Section
Department of Ecology
15 West Yakima Avenue, Suite 200
Yakima, Washington 98902

[WAC 173-401-615(3)(b), 9/16/02; 40 CFR §64.9(a), 7/1/03]

2.7 Excess Emissions

2.7.1 ***Excess emissions due to emergency.*** The permittee may seek to establish that noncompliance with a technology-based emission limitation under this permit was due to an emergency. To do so, the permittee shall demonstrate the affirmative defense of emergency through properly signed, contemporaneous operating logs, or other relevant evidence that:

2.7.1.1 An emergency occurred and that the permittee can identify the cause(s) of the emergency;

2.7.1.2 The permitted source was at the time being properly operated;

2.7.1.3 During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards, or other requirements in this permit; and

2.7.1.4 The permittee submitted notice of the emergency to Ecology within **two (2) working days** of the time when emission limitations were exceeded due to the emergency or shorter periods of time specified in an applicable requirement. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

[WAC 173-401-645, 9/16/02]

2.7.2 ***Unavoidable excess emissions.*** Excess emissions determined to be unavoidable under the procedures and criteria in WAC 173-400-107 shall be excused and not subject to penalty.

2.7.2.1 The permittee shall have the burden of proving to Ecology that excess emissions were unavoidable. This demonstration shall be a condition to obtaining relief under 2.7.2.2, 2.7.2.3, or 2.7.2.4.

2.7.2.2 Excess emission due to startup or shutdown conditions shall be considered unavoidable provided the source reports as required under WAC 173-400-107(3) and adequately demonstrates that the excess emissions could not have been prevented through careful planning and design and if a bypass of control equipment occurs, that such bypass is necessary to prevent loss of life, personal injury, or severe property damage.

2.7.2.3 Excess emissions due to scheduled maintenance shall be considered unavoidable if the source reports as required under WAC 173-400-107(3) and adequately demonstrates that the excess emissions could not have been avoided through reasonable design, better scheduling for maintenance or through better operation and maintenance practices.

2.7.2.4 Excess emissions due to upsets shall be considered unavoidable provided the source reports as required under WAC 173-400-107(3) and adequately demonstrates that:

- 2.7.2.4.1 The event was not caused by poor or inadequate design, operation, maintenance, or any other reasonably preventable condition;
- 2.7.2.4.2 The event was not of a recurring pattern indicative of inadequate design, operation, or maintenance; and
- 2.7.2.4.3 The operator took immediate and appropriate corrective action in a manner consistent with good air pollution control practice for minimizing emissions during the event, taking into account the total emissions impact of the corrective action, including slowing or shutting down the emission unit as necessary to minimize emissions, when the operator knew or should have known that an emission standard or permit condition was being exceeded.

2.7.2.5 **Required Reporting.** Excess emissions which represent a potential threat to human health or safety or which the owner or operator of the source believes to be unavoidable shall be reported to Ecology or the authority **as soon as possible**. Other excess emissions shall be reported within **thirty (30) days** after the end of the month during which the event occurred or as part of the routine emission monitoring reports. Upon request by Ecology, the permittee shall submit a full written report including the known causes, the corrective actions taken, and the preventive measures to be taken to minimize or eliminate the chance of recurrence.

[WAC 173-400-107, 8/20/93, 9/6/07 (S)]

2.8 Submittals

- 2.8.1 Reports, test data, monitoring data, and notifications, required by this permit, and requests for permit renewal shall be submitted to Ecology at:
Section Manager
Central Regional Air Quality Section
Department of Ecology
15 West Yakima Avenue, Suite 200
Yakima, Washington 98902

[WAC 173-401-520, 9/16/02]

- 2.8.2 Any application form, report, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. [WAC 173-401-520, 9/16/02]
- 2.8.3 **Duty to supplement or correct application.** The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information. The permittee shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit. [WAC 173-401-500(6), 9/16/02]

2.9 Emission Inventory

- 2.9.1 Permittee shall submit an inventory of emissions from the source for each calendar year. The inventory shall include segmented stack and fugitive emissions of TSP, PM₁₀, PM_{2.5}, SO_x, CO, NO_x, VOC, lead, and ammonia. The inventory shall be submitted for each calendar year, no later than **April 15th** of the following year.

2.9.2 Additionally, the inventory for calendar years 2008 and 2011 shall specify inventory year, inventory start date, inventory end date, inventory type, FIPS state code, FIPS county code, facility ID code, point ID code, process ID code, stack ID code, site name, physical address, SCC or PCC, fuel heat content (annual average), fuel ash content (annual average), fuel sulfur content (annual average), pollutant code, annual throughput, daily throughput, work weekday emissions, annual emissions, emission factor, winter throughput (%), spring throughput (%), summer throughput (%), fall throughput (%), hours/day in operation, start time (hour), days/week in operation, weeks/year in operation, stack latitude, stack longitude, stack height, stack diameter, exit gas temperature, exit gas velocity, exit gas flow rate, SIC/NAICS, design capacity, maximum nameplate capacity, primary control efficiency (%), secondary control efficiency (%), control device type, and rule effectiveness (%), as defined in 40 CFR part 51, subpart A Appendix A , 7/1/08.

2.9.3 The source shall maintain records of information necessary to substantiate any reported emissions, consistent with the averaging times for the applicable standards. Emission inventories shall be sent to Ecology at:

Section Manager
Central Regional Air Quality Section
Department of Ecology
15 West Yakima Avenue, Suite 200
Yakima, Washington 98902

[WAC 173-400-105(1), 8/20/93, 9/6/07 (S)]

2.10 Permit Renewal and Expiration

2.10.1 This permit is issued for a fixed term of five (5) years. The permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted.

2.10.2 A draft renewal application must be submitted by **June 30, 2012**. A **complete** renewal application is due no later than **December 30, 2012**. Upon receipt of a complete and timely application for renewal, this source may continue to operate subject to final action by Ecology on the renewal application. This protection shall cease to apply if, subsequent to a completeness determination, the applicant fails to submit by the deadline specified in writing by Ecology, any additional information identified as being needed to process the application.

2.10.3 The application for renewal shall include the current permit number, description of permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term and shall provide a compliance schedule therefore. The application shall be sent to:

Section Manager
Central Regional Air Quality Section
Department of Ecology
15 West Yakima Avenue, Suite 200
Yakima, Washington 98902

[WAC 173-401-610, 9/16/02; WAC 173-401-710, 9/16/02]

2.11 Off-permit Changes

2.11.1 The source shall be allowed to make changes not specifically addressed or prohibited by the permit terms and conditions without requiring a permit revision, provided that the proposed changes do not weaken the enforceability of the existing permit conditions. Any change that is a Title I modification or is a change subject to the acid rain requirements under Title IV of the FCAA must be submitted as a permit revision.

- 2.11.2 Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition.
- 2.11.3 Sources must provide contemporaneous written notice to Ecology and EPA of each such change. Notification shall be submitted to Ecology at:
Section Manager
Central Regional Air Quality Section
Department of Ecology
15 West Yakima Avenue, Suite 200
Yakima, Washington 98902

and EPA Region 10 at:
Part 70 Permit Coordinator/Laurie Kral
EPA Region 10
AWT-107
1200 Sixth Avenue
Seattle, Washington 98101

Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.

- 2.11.4 The change shall not qualify for the permit shield under WAC 173-401-640.
- 2.11.5 The permittee shall keep a record describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- 2.11.6 A source making a change under this section shall comply with applicable preconstruction review requirements established pursuant to RCW 70.94.152.

[WAC 173-401-724, 9/16/02]

2.12 **Changes Not Requiring Permit Revisions**

- 2.12.1 Permittee is authorized to make the changes described in this section without a permit revision, providing the following conditions are met:
- 2.12.1.1 The proposed changes are not Title I modifications;
- 2.12.1.2 The proposed changes do not result in emissions which exceed those allowable under the permit, whether expressed as a rate of emissions, or in total emissions;
- 2.12.1.3 The proposed changes do not alter permit terms that are necessary to enforce limitations on emissions from units covered by the permit; and
- 2.12.1.4 The source provides the administrator and Ecology with written notification at least seven (7) days prior to making the proposed changes except that written notification of a change made in response to an emergency shall be provided as soon as possible after the event. Notification shall be submitted to Ecology at:
Section Manager
Central Regional Air Quality Section
Department of Ecology
15 West Yakima Avenue, Suite 200
Yakima, Washington 98902

and EPA Region 10 at:
Part 70 Permit Coordinator/Laurie Kral
EPA Region 10
AWT-107
1200 Sixth Avenue
Seattle, Washington 98101

The permittee and Ecology shall attach each notice to their copy of the relevant permit.

- 2.12.2 Pursuant to conditions in 2.12.1, a Chapter 173-401 WAC source is authorized to make section 502(b)(10) changes without a permit revision.
- 2.12.2.1 For each such change, the written notification required under 2.12.1.4 shall include a brief description of the change within the permitted source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.
- 2.12.2.2 The permit shield authorized under WAC 173-401-640 shall not apply to any change made pursuant to this paragraph.
- 2.12.3 Pursuant to the conditions in 2.12.1, a Chapter 173-401 WAC source is authorized to trade increases and decreases in emissions in the permitted source, where the Washington SIP provides for such emissions trades without requiring a permit revision. This provision is available in those cases where the permit does not already provide for such emissions trading.
- 2.12.3.1 Written notification required under 2.12.1.4 shall include such information as may be required by the provision in the Washington SIP authorizing the emissions trade, including at a minimum, when the proposed change will occur, a description of each such change, any change in emissions, the permit requirements with which the source will comply using the emissions trading provisions of the Washington SIP, and the pollutants emitted subject to the emissions trade. The notice shall also refer to the provisions with which the source will comply in the applicable implementation plan and that provide for the emissions trade.
- 2.12.3.2 The permit shield described in WAC 173-401-640 shall not extend to any change made under this paragraph. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the applicable SIP authorizing the emissions trade.
- 2.12.4 Upon the request of the permittee, Ecology shall issue permits that contain terms and conditions, including all terms required under WAC 173-401-600 through 173-401-630 to determine compliance, allowing for the trading of emissions increases and decreases in the Chapter 173-401 WAC source solely for the purpose of complying with a federally enforceable emissions cap that is established in the permit independent of otherwise applicable requirements. The permittee shall include in its application proposed replicable procedures and permit terms that ensure the emissions trades are quantifiable and enforceable. The emissions trading provisions shall not be applied to any emission units for which emissions are not quantifiable or for which there are no replicable procedures to enforce the emissions trades.
- 2.12.4.1 Under this paragraph, the written notification required under 2.12.1.4, shall state when the change will occur and shall describe the changes in emissions that will result and how these increases and decreases in emissions will comply with the terms and conditions of the permit.

2.12.4.2 The permit shield described in WAC 173-401-640 shall extend to terms and conditions that allow such increases and decreases in emissions.

2.12.5 A source making a change under this section shall comply with applicable preconstruction review requirements established pursuant to RCW 70.94.152.

[WAC 173-401-722, 9/16/02]

2.13 Reopening for Cause

2.13.1 Permits shall be reopened and revised under any of the following circumstances:

2.13.1.1 Additional applicable requirements become applicable to a Chapter 173-401 WAC source with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirements. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to WAC 173-401-620(2)(j);

2.13.1.2 Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit;

2.13.1.3 Ecology or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or

2.13.1.4 The administrator or Ecology determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

2.13.2 Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.

2.13.3 Reopenings under this section shall not be initiated before a notice of such intent is provided to the Chapter 173-401 WAC source by Ecology at least thirty (30) days in advance of the date that the permit is to be reopened, except that Ecology may provide a shorter time period in the case of an emergency.

[WAC 173-401-730, 9/16/02]

2.14 New Source Review

The permittee shall not construct new sources or make modifications required to be reviewed under WAC 173-400-110, WAC 173-400-113, WAC 173-400-141, WAC 173-400-700 through 750, or Chapter 173-460 WAC before the permittee obtains written final approval from Ecology in accordance with those regulations, pays the appropriate fees required by WAC 173-455-120, and pays the cost of public notice described in WAC 173-400-171. [WAC 173-400-110, 8/20/93, 9/6/07 (S); WAC 173-400-113, 8/20/93, 9/6/07 (S); WAC 173-400-116, 8/20/93, 9/6/07 (S); WAC 173-455-120, 5/3/07 (S); WAC 173-400-141, 8/20/93, 9/6/07 (S); WAC 173-400-171, 8/20/93, 9/6/07 (S); WAC 173-400-700 through 750, 9/6/07 (S); WAC 173-407-030 through 070, 9/6/07 (S); WAC 173-460-040, 7/21/98 (S); RCW 70.94.152, 2008 (S)]

2.15 Replacement or Substantial Alteration of Emission Control Technology

2.15.1 Prior to replacing or substantially altering emission control technology subject to review under WAC 173-400-114, the permittee shall file for and obtain approval from Ecology according to that regulation.

2.15.2 The permittee shall pay the appropriate fees required by WAC 173-455-100(4) prior to commencing construction.

[WAC 173-400-045(4), 7/11/02 (S); WAC 173-455-100(4), 9/6/07 (S); WAC 173-400-114, 9/6/07 (S); RCW 70.94.153, 2008 (S)]

2.16 Demolition and Renovation (asbestos)

2.16.1 Prior to, during, and after conducting any activity to which 40 CFR part 60, subpart M - National Emission Standard for Asbestos, applies, the permittee shall comply with the requirements of that rule.

2.16.2 Such activities include demolition, renovation, asbestos stripping or removal, installing or reinstalling insulation, manufacturing or fabricating certain items, spraying of certain materials, constructing roadways of certain materials, or disposal.

[40 CFR part 61, subpart M, 7/1/03; WAC 173-400-075(1), 9/6/07 (S)]

2.17 Federal CFC Requirements (Title VI)

2.17.1 The permittee shall comply with the following standards for recycling and emissions reductions pursuant to 40 CFR part 82, subpart F, except as provided for MVACs in subpart B:

2.17.1.1 Persons conducting maintenance, service, repair, or disposing must follow the prohibitions pursuant to 40 CFR §82.154.

2.17.1.2 Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR §82.156.

2.17.1.3 Equipment used during the maintenance, service, repair or disposal must comply with the standards for recycling and recovery equipment pursuant to 40 CFR §82.158.

2.17.1.4 Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR §82.161.

2.17.1.5 Persons conducting maintenance, service, repair, or disposing must certify to the Administrator that such person has acquired certified recovery or recycling equipment pursuant to 40 CFR §82.162.

2.17.1.6 Persons disposing of small appliances, Motor Vehicle Air Conditioners (MVACs), and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR §82.166.

2.17.1.7 Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR §82.156.

2.17.1.8 Owners/operators of appliances normally containing 50 or more pounds of refrigerant purchased and added to such appliances pursuant to 40 CFR §82.166.

- 2.17.2 If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR §82, Subpart A - Production and Consumption Controls.
- 2.17.3 If the permittee performs a service on motor (fleet) vehicles and when this service involves ozone depleting substance refrigerant in the MVAC, the permittee is subject to all applicable requirements as specified in 40 CFR part 82, Subpart B - Servicing of Motor Vehicle Air Conditioners.
- 2.17.4 The permittee shall be allowed to switch from any ozone depleting substance to any alternative that is listed in the Significant New Alternative Program promulgated pursuant to 40 CFR part 82, subpart G - Significant New Alternative Policy Program.

[40 CFR part 82, 7/1/08; RCW 70.94.970, 2008 (S); RCW 70.94.980, 2008 (S)]

3.0 OPERATIONAL FLEXIBILITY [WAC 173-401-650, 9/16/02]

In the event that an emission unit is not operated during a period equal to or greater than the monitoring period designated, no monitoring is required. This condition only applies to monitoring identified in Section 5.0, “Applicable Requirements”. Recordkeeping and reporting must note the reason why and length of time that the emission unit was not operated.

4.0 COMPLIANCE PLAN [WAC 173-401-630(3), 9/16/02; WAC 173-401-510(2)(h), 9/16/02]

- 4.1 The permittee shall continue to comply with applicable requirements with which it is currently in compliance.
- 4.2 The permittee shall meet applicable requirements on a timely basis that become effective during the permit term.
- 4.3 **Compliance Certification.**
 - 4.3.1 The permittee shall submit a certification of compliance with permit terms and conditions (i.e., sections 2, 3, 4, and 5) at least once per year. At a minimum a certification of compliance is due, for each calendar year, no later than the following **February 15th**. Ecology may require that compliance certifications be submitted more frequently for those emission units not in compliance with permit terms and conditions, or where more frequent certification is specified in the applicable requirement.
 - 4.3.2 The compliance certification shall include the following:
 - 4.3.2.1 The identification of each term or condition of the permit that is the basis of the certification;
 - 4.3.2.2 The compliance status;
 - 4.3.2.3 Whether compliance was continuous or intermittent; and
 - 4.3.2.4 The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with WAC 173-401-615(3)(a).
 - 4.3.3 Compliance certifications shall be submitted to Ecology at:
 - Section Manager
 - Regional Air Quality Section
 - Department of Ecology
 - 15 W Yakima Ave, Ste 200
 - Yakima, Washington 98902

and EPA Region 10 at:
Part 70 Permit Coordinator/Laurie Kral
EPA Region 10
AWT-107
1200 Sixth Avenue
Seattle, Washington 98101

[WAC 173-401-630(5), 9/16/02]

4.3.4 The permittee need not certify compliance for insignificant emission units or activities.
[WAC 173-401-530(2)(d), 9/16/02]

4.3.5 For the purpose of submitting compliance certifications or establishing violations, the permittee, shall not preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed. [40 CFR §§60.11(g), 7/1/08]

5.0 APPLICABLE REQUIREMENTS

Until this permit expires, is modified, or revoked, this permittee is authorized to operate processes one (1) through five (5). These processes are subject to the requirements shown in Tables 5.1 through 5.6, and to the other terms and conditions specified in this permit.

5.1 Process 1: Source-wide

The following requirements apply SOURCE WIDE; including, but not limited to, the solid waste landfill, ash monofill, gas collection and destruction systems, and rock crushing, unless an alternate requirement is specifically stated for a particular emission unit. Since monitoring, recordkeeping, and reporting has not specifically been required by Ecology for insignificant emission units, per WAC 173-400-105(1st), there are no air operating permit monitoring, recordkeeping, and reporting requirements for the insignificant emission units under this Source-wide section, as allowed per WAC 173-401-530(2)(c).

| Applicable Requirement (Source Wide) | | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------------------------------------|---------------------|---|---|--|---|
| 5.1.1 | RCW 70.94.040, 2008 | S | Unlawful for any person to cause air pollution or permit it to be caused in violation of Chapter 70.94 RCW, or of any ordinance, resolution, rule or regulation validly promulgated thereunder. | None specified. | No additional monitoring required. |
| 5.1.2 | RCW 70.94.610, 2008 | S | Used oil standards (NOTE: These standards do not apply to space heaters with a maximum heat output ≤ 0.5 MMBtu/hr): Cadmium: ≤ 2 ppm; Chromium: ≤ 10 ppm Lead: ≤ 100 ppm Arsenic: ≤ 5 ppm Total halogens: ≤ 1000 ppm PCBs: ≤ 2 ppm Ash: $\leq 0.1\%$ Sulfur: $\leq 1.0\%$ Flash point: $\geq 100^\circ\text{F}$ | None specified. | Records from the vendor shall be kept demonstrating that each shipment of used oil, received by the permittee, is ‘on-specification’ per RCW 70.94.610. [WAC 173-401-615(1), 9/16/02] |

| | Applicable Requirement (Source Wide) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|--|--|--|---|--|
| 5.1.3 | WAC 173-400-040(1st ¶), 8/20/93 WAC 173-400-040(1st ¶), 9/6/07; RCW 70.94.154, 2008 | F S | All emission units are required to use RACT. | None specified. | No additional monitoring required. |

| | Applicable Requirement (Source Wide) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|--|--|--|--|---|
| 5.1.4 | <p>WAC 173-400-040(1)(a), (b), 8/20/93</p> <hr/> <p>WAC 173-400-040(1)(a), (b), 9/6/07</p> | <p>F</p> <hr/> <p>S</p> | <p>Opacity shall not exceed 20% for more than three (3) minutes, in any one (1) hour.</p> | <p>Ecology Method 9A, “Source Test Manual - Procedures for Compliance Testing,” State of Washington Department of Ecology, 7/12/90</p> | <p>1) The permittee shall conduct monthly visible emissions surveys of all emission units during daylight hours as follows: a) the survey shall be conducted from a location with a clear view of the emission unit and where the sun is not directly in the observer’s eyes. The survey location shall be at least 15 feet but not more than 0.25 miles from the source; b) survey shall be conducted during operation; c) the observer will be educated in the general procedures for determining the presence of visible emissions (i.e. effects on the visibility of emissions caused by background contrast, position of the sun and amount of ambient lighting, and observer position relative to source and sun); d) the survey shall consist of a minimum 15-second visual observation of each emission unit to identify those emission units which exhibit visible emissions; e) in addition to the records required under condition 2.15, the observer shall record the wind direction, sky condition, sun location with respect to the source and the survey location, and the time duration of the survey.</p> <p>2) The permittee shall conduct Ecology Method 9A testing of an emission unit when visible emissions, other than uncombined water, are observed during a survey or are otherwise observed by the permittee. Testing shall be conducted as follows: a) testing shall be initiated as soon as possible, but not later than 24 hours after the requirement to conduct such testing is triggered; b) all testing shall be performed during periods when the subject emission unit is operating; c) testing shall consist of certified opacity readings at 15-second intervals over a minimum period of six consecutive minutes (24 consecutive readings) unless any two readings are greater than 20% opacity in which case the testing period shall be 60 consecutive minutes or until a violation is documented. If a violation is documented, appropriate and timely action shall be taken (as soon as possible, but within 24 hours) to identify and correct the problem causing the opacity. The required recordkeeping shall include the name of the person recording the information, the name(s) of the person(s) taking the corrective action, and the nature, time, date, and effectiveness of any corrective action taken in response to a violation. [WAC 173-401-615(1), 9/16/02]</p> |

| Applicable Requirement (Source Wide) | | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------------------------------------|--------------------------------|---|--|--|--|
| 5.1.5 | WAC 173-400-040(2), 9/6/07 | S | No person shall cause or permit the emission of PM from any source to be deposited beyond the property under direct control of the owner(s) or operator(s) of the source in sufficient quantity to interfere unreasonably with the use and enjoyment of the property upon which the material is deposited. | None specified. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.2.23, 5.2.24, 5.2.26, 5.2.27, 5.3.1, 5.3.5, 5.3.12, 5.6.1, 5.6.2, 5.6.3, 5.6.4, 5.6.6, 5.6.7, and 5.6.8. [WAC 173-401-615(1), 9/16/02] |
| 5.1.6 | WAC 173-400-040(3)(a), 8/20/93 | F | Reasonable precautions shall be taken to control fugitive emissions. | None specified. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.2.23, 5.2.24, 5.2.26, 5.2.27, 5.3.1, 5.3.5, 5.3.12, 5.6.1, 5.6.2, 5.6.3, 5.6.4, 5.6.6, 5.6.7, and 5.6.8. [WAC 173-401-615(1), 9/16/02] |
| | WAC 173-400-040(3)(a), 9/6/07 | S | | | |
| 5.1.7 | WAC 173-400-040(4), 9/6/07 | S | Odors which may unreasonably interfere with use and enjoyment of property are prohibited unless recognized good practice and procedures are employed to reduce odors to a reasonable minimum. | None specified. | The permittee shall keep a written record of complaints received by the permittee or forwarded to the permittee by Ecology. Any complaints shall be promptly assessed for validity. Ecology shall be notified within three (3) days of receipt of any valid complaints. It will be a violation of the conditions of the permit if necessary corrective action is not taken or commenced by the permittee and the permittee has not responded to the complaint within three (3) working days of receipt of the complaint by the permittee. The recordkeeping requirements for the source shall include a record of all complaints, the permittee’s action to investigate the validity of the complaint and what, if any, corrective action was taken in response to the complaint.[WAC 173-401-615(1), 9/16/02] |

| | Applicable Requirement (Source Wide) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|---|--|---|---|---|
| 5.1.8 | WAC 173-400-040(5), 8/20/93 <hr/> WAC 173-400-040(5), 9/6/07 | F <hr/> S | No emissions detrimental to persons or property. | None specified. | The permittee shall keep a written record of complaints received by the permittee or forwarded to the permittee by Ecology. Any complaints shall be promptly assessed for validity. Ecology shall be notified within three (3) days of receipt of any valid complaints. It will be a violation of the conditions of the permit if necessary corrective action is not taken or commenced by the permittee and the permittee has not responded to the complaint within three (3) working days of receipt of the complaint by the permittee. The recordkeeping requirements for the source shall include a record of all complaints, the permittee’s action to investigate the validity of the complaint and what, if any, corrective action was taken in response to the complaint. [WAC 173-401-615(1), 9/16/02] |
| 5.1.9 | WAC 173-400-040(6)(1st ¶), 8/20/93 <hr/> WAC 173-400-040(6)(1st ¶), 9/6/07 | F <hr/> S | SO ₂ shall not exceed 1000 ppm _v on a dry basis, corrected to 7% O ₂ for combustion sources, and based on the average of any period of sixty (60) consecutive minutes. | EPA RM 8, 40 CFR Part 60, Appendix A, 7/1/08. | No additional monitoring required. (NOTE: Other than the LFG flares (LFG Flare #1 and LFG Flare #2), all other combustion units at this source are insignificant emission units.) |
| 5.1.10 | WAC 173-400-040(7), 8/20/93 <hr/> WAC 173-400-040(7), 9/6/07 | F <hr/> S | No person shall cause or permit the installation or use of any means which conceals or masks an emission of an air contaminant. | None specified. | No additional monitoring required. |
| 5.1.11 | WAC 173-400-040(8)(a), 8/20/93 <hr/> WAC 173-400-040(8)(a), 9/6/07 | F <hr/> S | Reasonable precautions shall be taken to prevent fugitive dust from becoming airborne. | None specified. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.2.23, 5.2.24, 5.2.26, 5.2.27, 5.3.1, 5.3.5, 5.3.12, 5.6.1, 5.6.2, 5.6.3, 5.6.4, 5.6.6, 5.6.7, and 5.6.8. [WAC 173-401-615(1), 9/16/02] |
| 5.1.12 | WAC 173-400-050(1), (3), 8/20/93 <hr/> WAC 173-400-050(1), (3), 9/6/07 | F <hr/> S | PM emissions from combustion sources shall not exceed 0.1 gr/dscf corrected to 7% O ₂ . | EPA RM 5, 40 CFR Part 60, Appendix A, 7/1/08. | No additional monitoring required. (NOTE: Other than the LFG flares (LFG Flare #1 and LFG Flare #2), all other combustion units at this source are insignificant emission units.) |

| | Applicable Requirement (Source Wide) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|---|--|--|---|--|
| 5.1.13 | WAC 173-400-060, 8/20/93 <hr/> WAC 173-400-060, 9/6/07 | F <hr/> S | General process units required to meet all applicable provisions of WAC 173-400-040. PM shall not exceed 0.1 gr/dscf. | EPA RM 5, 40 CFR Part 60, Appendix A, 7/1/08. | No additional monitoring required. (NOTE: The rock crushing plant includes the only general process units at this source.) |
| 5.1.14 | WAC 173-400-200(2), 8/20/93 <hr/> WAC 173-400-200(2), 9/6/07 | F <hr/> S | No use of excess stack height or dispersion techniques shall be used to meet ambient air quality standards or PSD increments. (NOTE: This requirement does not apply to the LFG flares.) | None specified. | No additional monitoring required. |
| 5.1.15 | WAC 173-400-205, 8/20/93 <hr/> WAC 173-400-205, 9/6/07 | F <hr/> S | No varying of emissions according to atmospheric conditions or ambient concentrations. | None specified. | No additional monitoring required. |
| 5.1.16 | Order No. DE 93AQ-C163 Third Revision, 11/16/05, Approval Condition 3.6.1; Order No. DE 98AQ-C131 First Revision, 4/13/04, Condition 2.10.1; Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.11.1 | F | No open burning conducted at the source. | None specified. | No additional monitoring required. |

| | Applicable Requirement (Source Wide) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|--|--|--|---|--|
| 5.1.17 | Order No. DE 93AQ-C163 Third Revision, 11/16/05, Approval Condition 3.6.5; Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Condition 2.10.4; Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.11.4 | F | Access to the source by EPA or Ecology shall be permitted upon request. | None specified. | No additional monitoring required. |

5.2 Process 2: Solid Waste Landfill

The following requirements apply to the SOLID WASTE LANDFILL:

| | Applicable Requirement (Solid Waste Landfill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|--|--|--|---|--|
| 5.2.1 | 40 CFR §60.7, 7/1/08 | F | Notification and recordkeeping. | None specified. | <p>Permittee shall furnish the Administrator written notification of activities listed in 40 CFR §60.7(a). Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the affected source; any malfunction of the air pollution equipment; or any periods during which a CMS or monitoring device is inoperative. Each summary report form shall contain the information and be in the format described in 40 CFR §60.7(d). For purposes of this requirement, the Administrator, shall be:</p> <p style="padding-left: 40px;">Manager Federal & Delegated Air Programs Unit/ Nancy Helm EPA Office of Air, Waste and Toxics AWT-107 1200 Sixth Avenue, Suite 900 Seattle, Washington 98101</p> <p>And, Section Manager Central Regional Air Quality Section Department of Ecology 15 West Yakima Avenue, Suite 200 Yakima, Washington 98902 [40 CFR part 60, 7/1/08]</p> |
| 5.2.2 | 40 CFR §60.11(d), 7/1/08 | F | Maintain and operate any affected emission unit with good air pollution control practice for minimizing emissions. | None specified. | No additional monitoring required. |
| 5.2.3 | 40 CFR §60.12, 7/1/08; 40 CFR §63.4(b), 7/1/08 | F | Circumvention. | None specified. | No additional monitoring required. |

| | Applicable Requirement (Solid Waste Landfill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|--|--|--|---|--|
| 5.2.4 | 40 CFR §63.4(a), 7/1/08 | F | Prohibited Activities: The permittee shall comply with the requirements of Part 63. | None specified. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for the terms and conditions 5.2.5 and 5.2.7 through 5.2.13. (Landfill NESHAP). [40 CFR §63.4(a), 7/1/08] |
| 5.2.5 | 40 CFR §63.6(e), 7/1/08 | F | Operation & maintenance requirements: The permittee shall operate and maintain the landfill, including associated air pollution control equipment, in a manner consistent with good air pollution control practices. | None specified. | <p>At all times, the permittee shall follow a written startup, shutdown, and malfunction (SSM) plan that describes, in detail, procedures for operating and maintaining the source during periods of SSM and a program of corrective action for malfunctioning process and air pollution control equipment. Malfunctions shall be corrected as soon as practicable after their occurrence. When actions taken by the permittee during a SSM are consistent with the procedures specified in the Plan, the permittee shall keep records indicating as such. When actions taken by the permittee during a SSM are not consistent with the procedures specified in the Plan, the permittee shall report such actions within 2 working days after commencing actions inconsistent with the plan, followed by a letter within 7 working days after the end of the event, in accordance with 40 CFR §63.10(d)(5). If the Plan fails to adequately address an event, the Plan shall be revised within 45 days after the event to include detailed procedures addressing such event. [40 CFR §63.6(e), 7/1/08]</p> <p>The permittee shall keep records of the occurrence and duration of; (1) each SSM of operation, (2) the occurrence and duration of each malfunction of the air pollution control equipment, (3) all maintenance performed on the air pollution control equipment, (4) actions taken during periods of SSM, and (5) all information necessary to demonstrate conformance with the Plan. [40 CFR §63.10(b)(2)(i), 7/1/08]</p> <p>Reports shall be submitted by February 15th and August 15th, for each calendar half. [40 CFR §63.10(d)(5), 7/1/08]</p> |

| | Applicable Requirement (Solid Waste Landfill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|---|--|---|---|---|
| 5.2.6 | 40 CFR §60.752(b)(2)(ii)(A), 7/1/08; 40 CFR §60.753(a), 7/1/08; 40 CFR §60.755(b), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i> 40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i> | F | Install, within 60 days, and operate active collection system wells that collect gas from each area, cell, or group of cells in the landfill in which solid waste has been placed for: (1) 5 years or more if active, OR (2) 2 years or more if closed or at final grade. | None specified. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirement 5.2.8. [WAC 173-401-615(1), 9/16/02] |
| 5.2.7 | 40 CFR §60.752(b)(2)(ii)(A), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i> 40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i> | F | Install an active collection system that is 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. | To calculate maximum expected gas flow rate: $Q_M = \sum_{i=1}^n 2 k L_o M_i (e^{-kt_i})$ where, Q _m =maximum expected gas generation flow rate, m ³ /yr k=methane generation rate constant, year ⁻¹ L _o =methane generation potential, m ³ /Mg solid waste M _i =mass of solid waste in the i th section, Mg t _i =age of the i th section, years [40 CFR §60.755(a)(1)(ii), 7/1/08] | Submit semi-annual reports by February 15th and August 15th , for each calendar half, to: Manager Federal & Delegated Air Programs Unit/ Nancy Helm EPA Office of Air, Waste and Toxics AWT-107 1200 Sixth Avenue, Suite 900 Seattle, Washington 98101 And, Section Manager Central Regional Air Quality Section Department of Ecology 15 West Yakima Avenue, Suite 200 Yakima, Washington 98902 Semi-annual report shall include the date of installation and the location of each well or collection system expansion added. [40 CFR §60.757(f), 7/1/08; 40 CFR §63.1980(a), 7/1/08] |

| | Applicable Requirement (Solid Waste Landfill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|---|--|---|---|---|
| 5.2.8 | 40 CFR §60.752(b)(2)(ii)(A), 7/1/08; 40 CFR §60.759(a), 7/1/08; 40 CFR §60.759(b), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i> 40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i> | F | Install an active collection system that is designed to collect gas at a sufficient extraction rate, sited at a sufficient density throughout all gas producing areas, and designed to minimize off-site migration of subsurface gas. | None specified. | 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. Keep up-to-date, readily accessible records of the installation date and location of all newly installed collectors. [40 CFR §60.758(d), 7/1/08] |

| | Applicable Requirement (Solid Waste Landfill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|--|--|---|---|--|
| 5.2.9 | <p>40 CFR §60.752(b)(2) (iii), 7/1/08; 40 CFR §60.759(c), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i></p> <p>40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i></p> | F | <p>Route all collected LFG to an enclosed combustor designed and operated to reduce NMOC: (a) by 98w%, OR (b) to an outlet concentration <20 ppm_v, dry basis as hexane at 3% O₂.</p> | <p>RM 25C OR RM 18. If using RM 18, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42).</p> <p>The following equation shall be used to calculate efficiency:</p> <p>Control Efficiency = $\frac{(\text{NMOC}_{\text{in}} - \text{NMOC}_{\text{out}})}{\text{NMOC}_{\text{in}}}$</p> <p>Where, NMOC_{in} = mass of NMOC entering control device NMOC_{out} = mass of NMOC exiting control device [40 CFR §60.754(d)]</p> | <p>Calibrate, maintain, and operate according to the manufacturer’s specifications, the following enclosed combustor equipment: (1) temperature monitoring device equipped with a continuous recorder and having an accuracy of ±1% of the temperature being measured expressed in °C or ±0.5°C, whichever is greater; AND, (2) gas flow measuring device that provides a measurement of gas flow to or bypass of the control device, AND either, (a) Install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes; OR, (b) Secure the bypass line valve in the closed position with a car-seal or lock-and-key type configuration. [40 CFR §60.756(b), 7/1/08; 40 CFR §63.1955(a)(1), 7/1/08]</p> <p>Keep up-to-date, readily accessible continuous records of the indication of flow to the control device 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)(2), 7/1/08; 40 CFR §63.1955(a)(1), 7/1/08]</p> <p>All 3-hour periods of operation during which the average combustion temperature was more than 28°C below the average combustion temperature during the most recent performance test constitute exceedences that shall be recorded and reported. [40 CFR §60.758(c)(1), 7/1/08; 40 CFR §63.1955(a)(1), 7/1/08]</p> <p>A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and the gas flow is not diverted through the bypass line. [40 CFR §60.756(b), 7/1/08; 40 CFR §63.1955(a)(1), 7/1/08]</p> <p>Submit semi-annual reports by February 15th and August 15th, for each calendar half, to:</p> <p>Manager Federal & Delegated Air Programs Unit/ Nancy Helm EPA Office of Air, Waste and Toxics AWT-107 1200 Sixth Avenue, Suite 900 Seattle, Washington 98101</p> <p>And, Section Manager Central Regional Air Quality Section Department of Ecology 15 West Yakima Avenue, Suite 200 Yakima, Washington 98902</p> <p>Semi-annual report shall include: (1) value and length of time for exceedence of applicable parameters monitored; AND, (2) description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow; AND, (3) description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operation; AND, (4) all periods when the collection system was not operating in excess of 5 days. [40 CFR §60.757(f), 7/1/08; 40 CFR §63.1980(a), 7/1/08]</p> |

| | Applicable Requirement (Solid Waste Landfill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
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| 5.2.10 | <p>40 CFR §60.753(b), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i></p> <p>40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i></p> | F | <p>Operate the LFG control system with negative pressure at each well-head except under the following conditions: (1) fire or increased well temperature; OR, (2) use of a geomembrane or synthetic cover; OR, (3) a decommissioned well.</p> | None specified. | <p>Measure gauge pressure in the gas collection header at each individual active well, monthly. If a positive pressure exists, action shall be initiated to correct the exceedence within 5 calendar days. 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 exceedence within 120 days of the initial measurement of positive pressure. Any attempted corrective measure shall not cause exceedences of other operational or performance standards. [40 CFR §60.755(a)(3), 7/1/08]</p> <p>Submit semi-annual reports by February 15th and August 15th, for each calendar half, to:</p> <p style="padding-left: 40px;">Manager Federal & Delegated Air Programs Unit/ Nancy Helm EPA Office of Air, Waste and Toxics AWT-107 1200 Sixth Avenue, Suite 900 Seattle, Washington 98101</p> <p>And,</p> <p style="padding-left: 40px;">Section Manager Central Regional Air Quality Section Department of Ecology 15 West Yakima Avenue, Suite 200 Yakima, Washington 98902</p> <p>Semi-annual reports shall include record of instances when positive pressure occurred. [40 CFR §60.753(b)(1), 7/1/08; 40 CFR §63.1980(a), 7/1/08]</p> |

| | Applicable Requirement (Solid Waste Landfill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|---|--|--|---|--|
| 5.2.11 | 40 CFR §60.753(c), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i> 40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i> | F | Operate each interior wellhead in the LFG collection system with: (1) LFG temperature < 55°C; AND, (2) either: (a) N ₂ < 20%; OR, (b) O ₂ < 5%. Except that existing interior wellheads T1EC1, T1EC2, T1EC3, T1EC4, T1EC5, T1WC5, T1WC6, T4NC2, T4NC3, T4NC4, T4NC5, T4NC6, T4SC4, T4SC6, T5A1, T5A3, T5A4, T5B1, T5B2, T5B4, T6A4, T7A1, T7A3, T7A5, T7A7, T7B1 and T7B2 may operate at temperature > 55°C, but no more than 65°C. | N ₂ by RM 3C; O ₂ by RM 3A, except that: (1) regulatory limit is between 20% and 50% of the span; AND, (2) data recorder not required; AND, (3) only 2 calibration gases are required; AND, (4) calibration error check not required; AND, (5) allowable sample bias, zero drift, and calibration draft are ±10%. [40 CFR §60.756(a), 7/1/08] | Install a sampling port and a thermometer or other temperature measuring device at each wellhead. Measure the N ₂ or O ₂ concentration in the LFG, and the temperature of the LFG at each individual well, on a monthly basis. If an active well exceeds one of the operating parameters (i.e., temperature, N ₂ or O ₂), action shall be initiated to correct the exceedence within 5 calendar days. If correction of the exceedence cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedence within 120 days of the initial exceedence. Any attempted corrective measure shall not cause exceedences of other operational or performance standards. [40 CFR §60.756(a), 7/1/08; 40 CFR §60.755(a)(5), 7/1/08] |

| | Applicable Requirement (Solid Waste Landfill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|--|--|--|---|---|
| 5.2.12 | <p>40 CFR §60.753(d), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i></p> <p>40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i></p> | F | Operate LFG collection system so that the methane concentration is <500 ppm above background at the surface of the landfill. | <p>Conduct surface testing around the perimeter of the collection area along a pattern that traverses the landfill at 30 meter intervals and where visual observations indicate elevated concentrations of LFG, such as distressed vegetation and cracks or seeps in the cover per the surface monitoring design plan and topographical map of the monitoring route.</p> <p>Instrument specifications and procedures for surface monitoring devices: (1) portable analyzer shall meet the instrument specifications provided in section 3 of RM 21, except that “methane” shall replace all references to VOC; AND, (2) calibration gas shall be methane, diluted to a nominal concentration of 500 ppm in air; AND, (3) instrument evaluation procedures of section 4.4 of RM 21 shall be used; AND, (4) calibration procedures provided in section 4.2 of RM 21 shall be followed immediately before commencing a surface monitoring survey. [40 CFR §60.755(d), 7/1/08]</p> <p>Conduct surface monitoring with a portable monitor meeting the specifications provided. The background concentration shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells. Surface emission monitoring shall be performed in accordance with section 4.3.1 of RM 21, except that the probe inlet shall be placed within 5 to 10 cm of the ground. Monitoring shall be performed during typical meteorological conditions. [40 CFR §60.755(c) , 7/1/08]</p> | <p>Conduct surface monitoring on a quarterly basis. Any reading of ≥500 ppm above background at any location shall be recorded as a monitored exceedence and actions below taken. As long as the specified actions are taken, the exceedence is not a violation of these operational requirements. The location of each monitored exceedence shall be marked and the location recorded. Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedence shall be made and the location shall be re-monitored within 10 calendar days of detecting the exceedence. Any location that initially showed an exceedence but has a methane concentration <500 ppm methane above background at the 10-day re-monitoring, shall be re-monitored 1 month from the initial exceedence. If the 1-month re-monitoring shows a concentration <500 ppm above background, no further monitoring of that location is required until the next quarterly monitoring period. If the re-monitoring of the location shows a second exceedence, additional corrective action shall be taken and the location shall be monitored again within 10 days of the second exceedence. If the re-monitoring shows a third exceedence for the same location, a new well or other collection device shall be installed within 120 calendar days of the initial exceedence, OR an alternative remedy to the exceedence, such as upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the Administrator for approval. No further monitoring of that location is required until remedy has been taken. [40 CFR §60.755(c), 7/1/08]</p> <p>Submit semi-annual reports by February 15th and August 15th, for each calendar half, to:</p> <p style="padding-left: 40px;">Manager Federal & Delegated Air Programs Unit/ Nancy Helm EPA Office of Air, Waste and Toxics AWT-107 1200 Sixth Avenue, Suite 900 Seattle, Washington 98101</p> <p>And,</p> <p style="padding-left: 40px;">Section Manager Central Regional Air Quality Section Department of Ecology 15 West Yakima Avenue, Suite 200 Yakima, Washington 98902</p> <p>Semi-annual report shall include the location of each exceedence of the 500 ppm methane concentration and the concentration recorded at each location for which an exceedence was recorded in the previous month. [40 CFR §60.755(c)(5), 7/1/08; 40 CFR §60.757(f), 7/1/08; 40 CFR §63.1980(a), 7/1/08]</p> |

| | Applicable Requirement (Solid Waste Landfill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|---|--|--|---|--|
| 5.2.13 | 40 CFR §60.753(e), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i> 40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i> | F | Operate the collection system such that all collected gases are vented to the control system. In the event the LFG collection and control is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within 1 hour. | None specified. | Records shall be kept of all periods when the LFG collection and control system is inoperable, the gas mover system is shut down, or the valves in the collection and control system are closed. [WAC 173-401-615(1), 9/16/02] |
| 5.2.14 | 40 CFR §60.755(e), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i> 40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i> | F | The provisions of the NSPS 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. | None specified. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirement 5.2.13. [WAC 173-401-615(1), 9/16/02] |

| | Applicable Requirement (Solid Waste Landfill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|---|--|---|---|--|
| 5.2.15 | 40 CFR §60.758(a), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i> 40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i> | F | Keep, for at least 5 years, up-to-date, readily accessible, on-site records of: (1) the maximum design capacity; AND, (2) the current amount of solid waste in-place; AND, (3) the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable. | None specified. | No additional monitoring required. |
| 5.2.16 | 40 CFR §60.758(c) , 7/1/0 <i>(Landfill NSPS Subpart WWW)</i> 40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i> | F | Keep for 5 years, up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in the NSPS as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded. | None specified. | No additional monitoring required. |

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|--------|--|--|---|---|--|
| 5.2.17 | 40 CFR §61.154(a), (c), (d), 7/1/08 (<i>Asbestos NESHAP Subpart M</i>) | F | In any active waste disposal site where asbestos-containing waste material has been deposited: (1) no visible emissions to the outside air; OR, (2) cover with ≥6 inches of compacted nonasbestos-containing material at the end of each operating day; OR, (3) cover with a chemical dust suppression agent (not to include any used, spent, or other waste oil) at the end of each operating day. | None specified. | No additional monitoring required. |

| | Applicable Requirement (Solid Waste Landfill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee | | | | | | | | |
|---|---|--|--|---|--|-------------------------------|-------------------------------------|--------------------------|-------------------------------------|---|-----------------|-----------------|------------------------------------|
| 5.2.18 | 40 CFR §61.154(b), 7/1/08 <i>(Asbestos NESHAP Subpart M)</i> | F | <p>Areas of disposal of asbestos-containing waste material must: (1) have a natural barrier that adequately deters access by the general public; OR, (2) cover with ≥6 inches of compacted nonasbestos-containing material at the end of each operating day; OR, (3) install warning signs and fencing that meet the following: (a) display signs at all entrances and at intervals of ≤330 feet; AND, (b) signs posted such that legend is easily read; AND, (c) 20" x 14" upright format signs; AND, (d) sign legend, size, and style at least equal to (spacing between lines must be at least equal to the height of the upper text line):</p> <table border="1" data-bbox="596 1027 856 1385"> <thead> <tr> <th data-bbox="596 1027 726 1052">Legend</th> <th data-bbox="726 1027 856 1052">Notation</th> </tr> </thead> <tbody> <tr> <td data-bbox="596 1052 726 1154">Asbestos Waste Disposal Site.</td> <td data-bbox="726 1052 856 1154">1 inch Sans Serif, Gothic, or Block</td> </tr> <tr> <td data-bbox="596 1154 726 1256">Do Not Create Dust</td> <td data-bbox="726 1154 856 1256">¾ inch Sans Serif, Gothic, or Block</td> </tr> <tr> <td data-bbox="596 1256 726 1385">Breathing Asbestos is Hazardous to Your Health.</td> <td data-bbox="726 1256 856 1385">14 point Gothic</td> </tr> </tbody> </table> <p>AND, (e) fenced in a manner adequate to deter access by the general public.</p> | Legend | Notation | Asbestos Waste Disposal Site. | 1 inch Sans Serif, Gothic, or Block | Do Not Create Dust | ¾ inch Sans Serif, Gothic, or Block | Breathing Asbestos is Hazardous to Your Health. | 14 point Gothic | None specified. | No additional monitoring required. |
| Legend | Notation | | | | | | | | | | | | |
| Asbestos Waste Disposal Site. | 1 inch Sans Serif, Gothic, or Block | | | | | | | | | | | | |
| Do Not Create Dust | ¾ inch Sans Serif, Gothic, or Block | | | | | | | | | | | | |
| Breathing Asbestos is Hazardous to Your Health. | 14 point Gothic | | | | | | | | | | | | |

| | Applicable Requirement (Solid Waste Landfill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|---|--|--|---|--|
| 5.2.19 | 40 CFR §61.154(e), 7/1/08 <i>(Asbestos NESHAP Subpart M)</i> | F | Maintain waste shipment records for all asbestos-containing waste material received. | None specified. | <p>Waste shipment records shall include: (1) name, address, and telephone number of the waste generator; AND, (2) name, address, and telephone number of the transporter(s); AND, (3) volume of waste; AND, (4) presence of improperly enclosed (leak-tight containers) or uncovered; AND, (5) date of waste receipt. Send a copy of the signed waste shipment record to the waste generator within 30 days of receipt of the waste.</p> <p>If significant amount of improperly enclosed or uncovered waste, report in writing (with copy of waste shipment record) to the asbestos NESHAP program Administrator for the waste generator (as indicated in the waste shipment record), Section Manager Central Regional Air Quality Section Department of Ecology 15 West Yakima Avenue, Suite 200 Yakima, Washington 98902</p> <p>And, Manager Federal & Delegated Air Programs Unit/ Nancy Helm EPA Office of Air, Waste and Toxics AWT-107 1200 Sixth Avenue, Suite 900 Seattle, Washington 98101 by the following working day.</p> <p>Submit reports (with copy of waste shipment record) of unreconciled waste quantity discrepancies within 15 days of waste receipt to Ecology and EPA, at the addresses listed above. [40 CFR §61.154(e)(1), (2), 7/1/08]</p> |

| | Applicable Requirement (Solid Waste Landfill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|---|--|---|---|---|
| 5.2.20 | 40 CFR §61.154(f), 7/1/08 <i>(Asbestos NESHAP Subpart M)</i> | F | Maintain, until closure, records of the location, depth and area, and quantity in cubic meters (cubic yards) of asbestos-containing waste material within the disposal area on a map or diagram of the disposal area. | None specified. | No additional monitoring required. |
| 5.2.21 | 40 CFR §61.154(i), 7/1/08 <i>(Asbestos NESHAP Subpart)</i> | F | Furnish upon request, and make available during normal business hours for inspection by the Ecology and EPA, all records required by the Asbestos NESHAP. | None specified. | No additional monitoring required. |
| 5.2.22 | 40 CFR §61.154(j), 7/1/08 <i>(Asbestos NESHAP Subpart M)</i> | F | Notify Ecology and EPA in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at the site and is covered. | None specified. | Notification shall include: (1) scheduled starting and completion dates; AND, (2) reason for disturbing waste; AND, (3) emission control procedures to be implemented; AND, (4) location of any temporary storage site and the final disposal site. [40 CFR §61.154(j), 7/1/08] |

| | Applicable Requirement (Solid Waste Landfill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|---|--|---|---|--|
| 5.2.23 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Conditions 3.1.1, 3.1.3 | F | Operation of the project in accordance with the O&M manual which shall include a Fugitive Dust Control Plan. Control fugitive dust according to the FDCP. | None specified. | Develop and implement an O&M manual which shall include but not be limited to procedures for assuring good operation of the source. The O&M manual shall also include a FDCP which will address, at a minimum, dust control of the landfill and unpaved and paved areas of travel. The permittee shall conduct monthly inspections of the source to verify the O&M manual and FDCP are being implemented and to verify the adequacy of the O&M manual and FDCP. The permittee shall take corrective action immediately but no later than within 24-hours of observing any deviation from the O&M manual or the FDCP(including deviations observed at times other than the monthly inspection). The permittee shall maintain a log of such inspections including the results of each inspection and any corrective action taken including any revisions to the O&M manual or FDCP in response to identified problems. The O&M manual and the FDCP shall be kept on file, at the source, and be made available to Ecology or EPA upon request. [WAC 173-401-615(1), 9/16/02] |
| 5.2.24 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.2 | F | Paved surface for all areas on which travel by solid-waste hauling vehicles routinely occurs, except within 100 feet of the active area. | None specified. | No additional monitoring required. |

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|--------|---|--|--|---|--|
| 5.2.25 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.3 | F | Visible emissions, from landfill operations, at the property boundary of the site shall not exceed five (5) percent opacity. | EPA RM 9, 40 CFR part 60, Appendix A, 7/1/08 | <p>1) The permittee shall conduct monthly visible emissions surveys of the source during daylight hours as follows: a) the survey shall be conducted from a location with a clear view of the property boundary and where the sun is not directly in the observer’s eyes. The survey location shall be at least 15 feet but not more than 0.25 miles from the source; b) survey shall be conducted during actual operation in an active cell; c) the observer will be educated in the general procedures for determining the presence of visible emissions (i.e. effects on the visibility of emissions caused by background contrast, position of the sun and amount of ambient lighting, observer position relative to source and sun, and the presence of uncombined water); d) the survey shall consist of a minimum 15-second visual observation of each stack and emission point to identify those stacks or emission points which exhibit visible emissions; e) in addition to the records required under condition 2.15, the observer shall record the wind direction, sky condition, sun location with respect to the source and the survey location, and the time duration of the survey.</p> <p>2) The permittee shall conduct RM 9 testing when visible emissions are observed during a survey or are otherwise observed by the permittee. Testing shall be conducted as follows: a) testing shall be initiated as soon as possible, but not later than 24 hours after the requirement to conduct such testing is triggered; b) all testing shall be performed during periods when the subject emission unit is operating; c) testing shall consist of certified opacity readings at 15-second intervals over a minimum period of six consecutive minutes (24 consecutive readings). If a violation is documented, appropriate and timely action shall be taken (as soon as possible, but within 24 hours) to identify and correct the problem causing the opacity. The required recordkeeping shall include the name of the person recording the information, the name(s) of the person(s) taking the corrective action, and the nature, time, date, and effectiveness of any corrective action taken in response to a violation. [WAC 173-401-615(1), 9/16/02]</p> |

| | Applicable Requirement (Solid Waste Landfill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|---|--|--|--|--|
| 5.2.26 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.4 | F | Sampling for PM ₁₀ shall be conducted each sixth (6) day by two (2) PM ₁₀ particulate monitoring stations. Monitored PM ₁₀ shall not exceed 150 µg/m ³ on a 24-hour basis. | Sample every sixth (6) day (midnight to midnight) using approved sampler with 50% cut-point of 10 microns. A minimum of 75 percent of the scheduled PM ₁₀ samples per quarter are required to be valid. | Sample PM ₁₀ every sixth day at air quality monitoring stations #1 or #2 and #4. Report sampling results quarterly to: Section Manager Central Regional Air Quality Section Department of Ecology 15 West Yakima Avenue, Suite 200 Yakima, Washington 98902 [Order No. DE 90-C153, Second Amendment] If an exceedence of the 150 µg/m ³ standard is monitored, corrective action shall be taken within 24-hours of receipt of the monitoring data showing the exceedence. Corrective action shall include: (1) verification of whether the landfill caused or contributed to the monitored exceedence; AND, (2) if the landfill caused or contributed to the monitored exceedence, actions shall be taken to identify and reduce fugitive emissions. Records of corrective actions shall be kept, which include date and nature of any corrective action taken. [WAC 173-401-615(1), 9/16/02] |
| 5.2.27 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.5 | F | Track out shall be minimized for all vehicles leaving the site. | None specified. | No additional monitoring required. |
| 5.2.28 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.7 | F | Odors shall be controlled by an active gas collection and destruction system, a leachate collection and treatment system, and waste management practices to minimize odors generated at the active face. | None specified. | The permittee shall keep a written record of complaints received by the permittee or forwarded to the permittee by Ecology. Any complaints shall be promptly assessed for validity. Ecology shall be notified within three (3) days of receipt of any valid complaints. It will be a violation of the conditions of the permit if necessary corrective action is not taken or commenced by the permittee and the permittee has not responded to the complaint within three (3) working days of receipt of the complaint by the permittee. The recordkeeping requirements for the source shall include a record of all complaints, the permittee’s action to investigate the validity of the complaint and what, if any, corrective action was taken in response to the complaint. [WAC 173-401-615(1), 9/16/02] |

| Applicable Requirement (Solid Waste Landfill) | | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--|---|--|--|---|--|
| 5.2.29 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.2 | F | Landfill may accept up to 5,000,000 tons per year of waste through the year 2030. | None specified. | The permittee shall keep record of the weight of solid waste accepted by the landfill per calendar year. [WAC 173-401-615(1), 9/16/02] |
| 5.2.30 | Order No. DE 90-C153 Fifth Revision, 12/23/08 | F | Plans, specifications, and other information submitted relative to the MSW landfill are incorporated and made part of Order No. DE 90-C153 Fifth Revision. | None specified. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for the terms and conditions of NOC Order No. DE 90-C153 (Applicable Requirements 5.2.8 through 5.2.31). [WAC 173-401-615(1), 9/16/02] |
| 5.2.31 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.8 | F | Incinerator ash to contain at least 10% moisture. | None specified. | Ash moisture content shall be sampled on a minimum of three discreet loads each calendar quarter. Results shall be submitted to Ecology semi-annually. [Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.8] |

5.3 Process 3: Ash Monofill

The following requirements apply to the ASH MONOFILL:

| | Applicable Requirement (Ash Monofill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|---|--|--|--|--|
| 5.3.1 | Order No. DE 93AQ-C163 Third Revision, 11/16/05, Condition 2.2, Approval Condition 3.5.2, 3.5.3, 3.5.4 | F | Sampling for PM ₁₀ shall be conducted each sixth (6) day by two (2) PM ₁₀ particulate monitoring stations. Monitored PM ₁₀ shall not exceed 150 µg/m ³ on a 24-hour basis. | Sample every sixth (6) day (midnight to midnight) using approved sampler with 50% cut-point of 10 microns. A minimum of 75 percent of the scheduled PM ₁₀ samples per quarter are required to be valid. | Sample PM ₁₀ every sixth day at air quality monitoring stations #1 or #2 and #3. Report sampling results quarterly to: Section Manager Central Regional Air Quality Section Department of Ecology 15 West Yakima Avenue, Suite 200 Yakima, Washington 98902 [Order No. DE 93AQ-C163, First Revision] If an exceedence of the 150 µg/m ³ standard is monitored, corrective action shall be taken within 24-hours of receipt of the monitoring data showing the exceedence. Corrective action shall include: (1) verification of whether the landfill caused or contributed to the monitored exceedence; AND, (2) if the landfill caused or contributed to the monitored exceedence, actions shall be taken to identify and reduce fugitive emissions. Records of corrective actions shall be kept, which include date and nature of any corrective action taken. [WAC 173-401-615(1), 9/16/02] |
| 5.3.2 | Order No. DE 93AQ-C163 Third Revision, 11/16/05, Condition 2.3.1, 2.4.1, Approval Condition 3.2.1, 3.5.1, 3.6.9 | F | Comply with provisions of Chapter 173-306 WAC, Special Incinerator Ash Management, relating to air quality. Lead shall not exceed 1.5 µg/m ³ due to the operation, closure, or post closure, of the ash monofill. | None specified. | Report sampling results quarterly to: Section Manager Central Regional Air Quality Section Department of Ecology 15 West Yakima Avenue, Suite 200 Yakima, Washington 98902 Chapter 173-306 WAC shall be reviewed at least annually with records kept of the date of and personnel who performed such review. [WAC 173-401-615(1), 9/16/02] |

| | Applicable Requirement (Ash Monofill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|---|--|--|---|--|
| 5.3.3 | Order No. DE 93AQ-C163 Third Revision, 11/16/05, Approval Condition 3.1.1 | F | Ash monofill limited to 33 acres, 25-year life, ten (10) acre cells, and no more than one cell in operation at any one time. No more than 4.6 acres of ash shall be exposed at one time. | None specified. | Records shall be kept of the ash monofill life, cell acreage, and total acreage. [WAC 173-401-615(1), 9/16/02] |
| 5.3.4 | Order No. DE 93AQ-C163 Third Revision, 11/16/05, Approval Condition 3.3.1 | F | Ash monofill operated and maintained in accordance with O&M manual. | None specified. | Develop and implement an O&M manual which shall include but not be limited to procedures for assuring good operation of the ash monofill. The permittee shall conduct monthly inspections of the source to verify the O&M manual is being implemented and to verify the adequacy of the manual. The permittee shall take corrective action immediately but no later than 24-hours after observing any deviation from the manual (including deviations observed at times other than the monthly inspection). The permittee shall maintain a log of such inspections including the results of each inspection and any corrective action taken including any revisions to the O&M manual in response to identified problems. The O&M manual shall be kept on file, at the source, and be made available to Ecology or EPA upon request. [WAC 173-401-615(1), 9/16/02] |
| 5.3.5 | Order No. DE 93AQ-C163 Third Revision, 11/16/05, Approval Condition 3.4.1 | F | Fugitive dust controlled in accordance with Fugitive Dust Control Plan. | None specified. | Develop and implement a FDCP which will address, at a minimum, dust control of the ash monofill and unpaved and paved areas of travel. The permittee shall conduct monthly inspections of the source to verify the FDCP is being implemented and to verify the adequacy of the FDCP. The permittee shall take corrective action immediately but no later than 24-hours of observing any deviation from the FDCP (including deviations observed at times other than the monthly inspection). The permittee shall maintain a log of such inspections including the results of each inspection and any corrective action taken including any revisions to the FDCP in response to identified problems. The FDCP shall be kept on file, at the source, and be made available to Ecology or EPA upon request. [WAC 173-401-615(1), 9/16/02] |

| | Applicable Requirement (Ash Monofill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|---|--|--|---|---|
| 5.3.6 | Order No. DE 93AQ-C163 Third Revision, 11/16/05, Approval Condition 3.6.2 | F | Visible emissions shall not exceed ten (10) percent. | EPA RM 9, 40 CFR part 60, Appendix A, 7/1/08 | <p>1) The permittee shall conduct monthly visible emissions surveys of the source during daylight hours as follows: a) the survey shall be conducted from a location with a clear view of the emission unit and where the sun is not directly in the observer’s eyes. The survey location shall be at least 15 feet but not more than 0.25 miles from the source; b) survey shall be conducted during actual operation in an active cell; c) the observer will be educated in the general procedures for determining the presence of visible emissions (i.e. effects on the visibility of emissions caused by background contrast, position of the sun and amount of ambient lighting, observer position relative to source and sun, and the presence of uncombined water); d) the survey shall consist of a minimum 15-second visual observation of each stack and emission point to identify those stacks or emission points which exhibit visible emissions; e) in addition to the records required under condition 2.15, the observer shall record the wind direction, sky condition, sun location with respect to the source and the survey location, and the time duration of the survey.</p> <p>2) The permittee shall conduct RM 9 testing when visible emissions, are observed during a survey or are otherwise observed by the permittee. Testing shall be conducted as follows: a) testing shall be initiated as soon as possible, but not later than 24 hours after the requirement to conduct such testing is triggered; b) all testing shall be performed during periods when the subject emission unit is operating; c) testing shall consist of certified opacity readings at 15-second intervals over a minimum period of six consecutive minutes (24 consecutive readings). If a violation is documented, appropriate and timely action shall be taken (as soon as possible, but within 24 hours) to identify and correct the problem causing the opacity. The required recordkeeping shall include the name of the person recording the information, the name(s) of the person(s) taking the corrective action, and the nature, time, date, and effectiveness of any corrective action taken in response to a violation. [WAC 173-401-615(1), 9/16/02]</p> |

| | Applicable Requirement (Ash Monofill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|---|--|--|---|---|
| 5.3.7 | Order No. DE 93AQ-C163 Third Revision, 11/16/05, Approval Condition 3.6.2 | F | Visible emissions, from ash monofill operations, at the property boundary of the site shall not exceed five (5) percent opacity. | EPA RM 9, 40 CFR part 60, Appendix A, 7/1/08; EPA RM 22, 40 CFR part 60, Appendix A, 7/1/08 | <p>1) The permittee shall conduct monthly visible emissions surveys of the source during daylight hours as follows: a) the survey shall be conducted from a location with a clear view of the property boundary and where the sun is not directly in the observer’s eyes. The survey location shall be at least 15 feet but not more than 0.25 miles from the source; b) survey shall be conducted during actual operation in an active cell; c) the observer will be educated in the general procedures for determining the presence of visible emissions (i.e. effects on the visibility of emissions caused by background contrast, position of the sun and amount of ambient lighting, observer position relative to source and sun, and the presence of uncombined water); d) the survey shall consist of a minimum 15-second visual observation of each stack and emission point to identify those stacks or emission points which exhibit visible emissions; e) in addition to the records required under condition 2.15, the observer shall record the wind direction, sky condition, sun location with respect to the source and the survey location, and the time duration of the survey.</p> <p>2) The permittee shall conduct RM 9 testing when visible emissions, are observed during a survey or are otherwise observed by the permittee. Testing shall be conducted as follows: a) testing shall be initiated as soon as possible, but not later than 24 hours after the requirement to conduct such testing is triggered; b) all testing shall be performed during periods when the subject emission unit is operating; c) testing shall consist of certified opacity readings at 15-second intervals over a minimum period of six consecutive minutes (24 consecutive readings). If a violation is documented, appropriate and timely action shall be taken (as soon as possible, but within 24 hours) to identify and correct the problem causing the opacity. The required recordkeeping shall include the name of the person recording the information, the name(s) of the person(s) taking the corrective action, and the nature, time, date, and effectiveness of any corrective action taken in response to a violation. [WAC 173-401-615(1), 9/16/02]</p> |
| 5.3.8 | Order No. DE 93AQ-C163 Third Revision, 11/16/05, Approval Condition 3.6.3 | F | Legible copies of NOC Order and O&M manual displayed on-site at all times in a place known to source employees. | None specified. | No additional monitoring required. |

| | Applicable Requirement (Ash Monofill) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|---|--|---|---|---|
| 5.3.9 | Order No. DE 93AQ-C163 Third Revision, 11/16/05, Approval Condition 3.6.4 | F | NOC approval void if project is discontinued for a period of 18 months, unless Ecology grants an extension. | None specified. | The permittee shall keep records of the dates of ash monofill operation. [WAC 173-401-615(1), 9/16/02] |
| 5.3.10 | Order No. DE 93AQ-C163 Third Revision, 11/16/05, Approval Condition 3.6.6 | F | Operation of ash monofill conducted in compliance with all data and specifications submitted as part of NOC application. | None specified. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for the terms and conditions of NOC Order No. DE 93AQ-C163, First Revision (Applicable Requirements 5.3.1 through 5.3.12). [WAC 173-401-615(1), 9/16/02] |
| 5.3.11 | Order No. DE 93AQ-C163 Third Revision, 11/16/05, Approval Condition 3.6.8 | F | Records maintained in readily retrievable manner for 10 years. | None specified. | No additional monitoring required. |
| 5.3.12 | Order No. DE 93AQ-C163 Third Revision, 11/16/05, Approval Condition 3.1.2 | F | 1500 TPD acceptance limit, except during extreme situations upon written approval by Ecology’s Central Regional Office Air Quality Program. | None specified. | The permittee shall keep record of the weight of ash accepted by the monofill per day. [WAC 173-401-615(1), 9/16/02] |

| Applicable Requirement (Ash Monofill) | | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under 'Applicable Requirement') | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|---------------------------------------|---|---|--|---|---|
| 5.3.13 | Order No. DE 93AQ-C163 Third Revision, 11/16/05, Approval Condition 3.1.3 | F | 150,000 TPY acceptance limit. | None specified. | The permittee shall keep record of the weight of ash accepted by the monofill per calendar year. [WAC 173-401-615(1), 9/16/02] |
| 5.3.14 | Order No. DE 93AQ-C163 Third Revision, 11/16/05, Approval Condition 3.5.5 | F | The sum of the daily ash dumping and bulldozer contouring and grading particulate matter emissions shall not exceed 10.326 pounds per day. | The average quarterly results of such sampling shall be plugged into the following equation: $E = \frac{4.7 \cdot s^{1.2}}{M^{1.3}}$ Where, s = ash silt content (%) M = ash moisture content (%). | Ash moisture content and silt content shall be sampled quarterly. If E > 2.489, actual daily ash dumping & grading PM emission shall be quantified. Sampling and calculation results shall be submitted to Ecology semi-annually. [Order No. DE 93AQ-C163 Third Revision, 11/16/05, Approval Condition 3.5.5] |

5.4 Process 4: Landfill Gas Flare #1

The following requirements apply to the LANDFILL GAS FLARE #1:

| | Applicable Requirement (LFG Flare #1) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|---|--|---|--|--|
| 5.4.1 | <p>40 CFR §60.752(b)(2)(ii) i), 7/1/08; 40 CFR §60.759(c), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i></p> <p>40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i></p> <p>Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.2.5, 2.5</p> | F | <p>Flare shall be designed and operated to reduce NMOC: (a) by 98w%, OR (b) to an outlet concentration <20 ppm_v, dry basis as hexane at 3% O₂.</p> | <p>RM 25A (as hexane) [Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Condition 2.8.9]</p> <p>The following equation shall be used to calculate efficiency:</p> $\text{Control Efficiency} = \frac{(\text{NMOC}_{\text{in}} - \text{NMOC}_{\text{out}})}{\text{NMOC}_{\text{in}}}$ <p>Where, NMOC_{in} = mass of NMOC entering control device NMOC_{out} = mass of NMOC exiting control device [40 CFR §60.754(d)]</p> | <p>Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.4.10 and 5.4.16. [WAC 173-401-615(1), 9/16/02] “Exceedence,” as used in 40 CFR §60.758(c)(1)(i), shall be considered an “excursion,” for purposes of Compliance Assurance Monitoring. An excursion shall require the following corrective actions: (1) Upon detecting the excursion, the permittee shall restore operation of the flare to its normal manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion. Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action, or any necessary follow-up actions to return operations to within the indicator range. The occurrence of more than one excursion in any 12-month period will require the development of a Quality Improvement Plan meeting the requirements of 40 CFR §64.8(b). [40 CFR §64.7, 7/1/08; 40 CFR §64.8, 7/1/08; 40 CFR §64.9, 7/1/08]</p> |
| 5.4.2 | <p>40 CFR §60.753(f), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i></p> <p>40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i></p> | F | <p>Operate the LFG control and treatment system at all times when the collected gas is routed to the system.</p> | None specified. | No additional monitoring required. |

| | Applicable Requirement (LFG Flare #1) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|---|--|--|---|--|
| 5.4.3 | 40 CFR §60.755(e), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i> 40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i> | F | The provisions of the NSPS 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 1 hour for treatment or control devices. | None specified. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirement 5.2.9. [WAC 173-401-615(1), 9/16/02] |
| 5.4.4 | 40 CFR §60.758(b), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i> 40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i> | F | Keep up-to-date, readily accessible records for the life of the control equipment of the following data, as measured during the initial performance test or compliance determination: (1) maximum expected gas generation flow rate as calculated in 5.2.5; AND , (2) the density of wells, horizontal collectors, surface collectors, or other gas extraction devices; AND, (3) the average combustion temperature measured at least every 15 minutes and averaged over the same time period of the performance test; AND, (4) the percent reduction of NMOC determined as specified in 5.4.1. 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 removed. | None specified. | No additional monitoring required. |

| | Applicable Requirement (LFG Flare #1) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|---|--|---|--|---|
| 5.4.5 | 40 CFR §60.758(c), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i> 40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i> | F | Keep for 5 years, up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in the landfill NSPS as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded. | None specified. | No additional monitoring required. |
| 5.4.6 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.2.1, 2.2.2, 2.2.3, 2.2.5, 2.3.3 | F | Enclosed flare shall be utilized to combust LFG. | None specified. | No additional monitoring required. |
| 5.4.7 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.4, 2.7.1, 2.7.6, 2.8.9 | F | Limited to one flare with a maximum flow rate of 5500 scfm LFG. | EPA RM 2C, 40 CFR part 60, Appendix A, 7/1/08. “Continuously” means 95% of the monthly flare operation, except for periods of monitoring system down-time, provided that the permittee demonstrates that the down-time was not a result of inadequate design, operation, or maintenance, or any other reasonably preventable conditions, and any necessary repairs to the monitoring system were conducted in a timely manner. | Continuously monitor the LFG flow rate with a flow indicator and recorder. [Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Condition 2.7.1] |

| Applicable Requirement (LFG Flare #1) | | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|---------------------------------------|--|---|--|---|---|
| 5.4.8 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Condition 2.7.4 | F | Monthly readings of the BTU content of the gas at the inlet to the flare shall be taken. | Calculate the BTU content as follows: $BTU_{LFG}/scf = (\%CH_4) \times (10.12).$ | Measure percentage of methane (%CH ₄) in the LFG, monthly. [Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Condition 2.7.4] |
| 5.4.9 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Condition 2.2.1 | F | LFG shall be treated by a knockout vessel prior to being combusted in the flare. | None specified. | No additional monitoring required. |
| 5.4.10 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.2.5, 2.3.3, 2.7.2, 2.7.6 | F | Flare shall be operated at a temperature not lower than 1500 °F with a retention time of at least 0.6 seconds. | The temperature indicator shall be located above the flame zone, at least 3 feet below the top of the flare shroud and at least 0.6 seconds downstream of the burner. “Continuously” means 95% of the monthly flare operation, except for periods of monitoring system down-time, provided that the permittee demonstrates that the down-time was not a result of inadequate design, operation, or maintenance, or any other reasonably preventable conditions, and any necessary repairs to the monitoring system were conducted in a timely manner. | Continuously operate a temperature indicator and recorder which measure and record the gas temperature in the flare stack. [Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Condition 2.7.2] |
| 5.4.11 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Condition 2.6.1 | F | Interlock to prevent gas from entering flares when temperature in combustion chamber < 1500 °F. | None specified. | No additional monitoring required. |

| | Applicable Requirement (LFG Flare #1) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|--|--|--|---|---|
| 5.4.12 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Condition 2.6.2 | F | Flare failure alarm with automatic blower and landfill gas-supply valve shut-off system. | None specified. | Safety system shall be tested monthly for proper operation and the results recorded. Records shall be kept of monthly safety system test. [WAC 173-401-615(1), 9/16/02] |
| 5.4.13 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.7.3, 2.7.6 | F | Maintain pressure differential across the flare arrester between 0 and 20 inches water column. | “Continuously” means 95% of the monthly flare operation, except for periods of monitoring system down-time, provided that the permittee demonstrates that the down-time was not a result of inadequate design, operation, or maintenance, or any other reasonably preventable conditions, and any necessary repairs to the monitoring system were conducted in a timely manner. | Continuously maintain a pressure differential indicator. [Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Condition 2.7.3] |
| 5.4.14 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Condition 2.7.5 | F | All recording devices must be synchronized based on the time of the day. | None specified. | No additional monitoring required. |

| | Applicable Requirement (LFG Flare #1) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|---|--|---|--|---|
| 5.4.15 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.8.4, 2.8.5, 2.8.8, 2.8.10 | F | Ecology shall be notified, and a test plan shall be submitted, at least 30 days prior to any testing. Written results of all required source testing shall be submitted to Ecology within 90 days of occurrence. | The test plan must include the identity of the independent testing firm, and a description of all sampling and analytical procedures to be used. The test shall include all the requirements of 40 CFR §60.18. Emission unit operation during the tests must be representative of actual operating conditions. A complete record of operation related parameters (temperature, flow, differential pressure) shall be kept during the tests. | No additional monitoring required. |
| 5.4.16 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.8.3, 2.8.6, 2.8.7, 2.8.9 | F | Source tests shall include a test for: velocity & flowrate, moisture, BTU content (inlet only), O ₂ , CO ₂ , NO _x (exhaust only), CO (exhaust only), SO ₂ (exhaust only), total PM (exhaust only), NMOC, methane, organic TAPs, HCl, H ₂ S and other speciated sulfur compounds, and opacity (exhaust only). | Methods as indicated in above applicable requirements. EPA RM 4, 40 CFR part 60, Appendix A, 7/1/08, for moisture. EPA RM TO-15, for BTU content. EPA RM 3A, 40 CFR part 60, Appendix A, 7/1/08, for O ₂ and CO ₂ . EPA RM 25A (as hexane), 40 CFR part 60, Appendix A, 7/1/08, for NMOC. EPA RM 25A (as methane), 40 CFR part 60, Appendix A, 7/1/08, for methane. Sampling ports and platforms must be provided. Adequate permanent and safe access to the test ports must be provided. All source testing shall consist of 3 separate runs. When source testing is conducted, the LFG flow rate shall be the maximum flow achievable, through variables within the control of the landfill operators, with all flow control adjustments at normal settings. | Source testing shall be conducted at intervals not greater than 5 years for the life of the source. A source test shall be conducted by June 2013, or within 30 days of the monthly average LFG flow to the flare reaching ≥ 4950 scfm. [Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.8.1, 2.8.2] |

| | Applicable Requirement (LFG Flare #1) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|---|--|---|---|---|
| 5.4.17 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.3.1, 2.5, 2.8.9 | F | 99% destruction or removal of H ₂ S and other unoxidized sulfur compounds. H ₂ S emissions shall not exceed 0.20 lb/hr. | EPA RM 16, 40 CFR part 60, Appendix A, 7/1/08. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.4.1, and 5.4.16. [WAC 173-401-615(1), 9/16/02] |
| 5.4.18 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.3.2, 2.5, 2.8.9 | F | HCl shall not exceed 10 ppm _v and 4.6 lb/hr. | EPA RM 26, 40 CFR part 60, Appendix A, 7/1/08. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.4.1 and 5.4.16. [WAC 173-401-615(1), 9/16/02] |
| 5.4.19 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.5, 2.8.9 | F | NMOC shall not exceed 12.6 lb/hr. | RM 25A (as hexane). | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.4.1 and 5.4.16. [WAC 173-401-615(1), 9/16/02] |

| | Applicable Requirement (LFG Flare #1) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|--|--|---|--|----------------------|-------|---------|--------|------------|-------|--------------|-------|-------------|--------|-------------------------|--------|---------------|---------|--------------|---------|----------------|-------|---------------------|-------|---------------------|--------|---------|--------|--------|--------|-------------------|--------|------------|--------|--------------|--------|--------------------|---------|---------------------|---------|--------------|--------|---------|-------|---------------------|--------|-----------------|---------|---------|---------|-----------------------|-------|-------------------|-------|------------------------|-------|------------|---------|----------|--------|----------------|-------|---|--|
| 5.4.20 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.3.3, 2.5, 2.8.9 | F | <p>At least 99% destruction efficiency of combined organic TAPs. Individual TAP emissions shall not exceed (lb/yr):</p> <table border="0"> <tr><td>Acetone</td><td>3990.00</td></tr> <tr><td>Acetylene Dichloride</td><td>58.45</td></tr> <tr><td>Benzene</td><td>245.69</td></tr> <tr><td>Chloroform</td><td>48.00</td></tr> <tr><td>Cryofluorane</td><td>32.57</td></tr> <tr><td>Cyclohexane</td><td>425.02</td></tr> <tr><td>Dichlorodifluoromethane</td><td>410.89</td></tr> <tr><td>Ethyl Alcohol</td><td>1971.37</td></tr> <tr><td>Ethylbenzene</td><td>1006.52</td></tr> <tr><td>Ethyl Chloride</td><td>41.59</td></tr> <tr><td>Ethylene Dichloride</td><td>66.00</td></tr> <tr><td>Ethylidene Chloride</td><td>117.74</td></tr> <tr><td>Heptane</td><td>479.55</td></tr> <tr><td>Hexane</td><td>618.92</td></tr> <tr><td>Isopropyl Alcohol</td><td>891.53</td></tr> <tr><td>Mesitylene</td><td>295.90</td></tr> <tr><td>Methanethiol</td><td>110.22</td></tr> <tr><td>Methylene Chloride</td><td>1998.07</td></tr> <tr><td>Methyl Ethyl Ketone</td><td>1316.80</td></tr> <tr><td>Pseudocumene</td><td>585.71</td></tr> <tr><td>Styrene</td><td>86.24</td></tr> <tr><td>Tetrachloroethylene</td><td>177.67</td></tr> <tr><td>Tetrahydrofuran</td><td>3990.00</td></tr> <tr><td>Toluene</td><td>2492.98</td></tr> <tr><td>1,1,1-trichloroethane</td><td>51.23</td></tr> <tr><td>Trichloroethylene</td><td>80.53</td></tr> <tr><td>Trichlorofluoromethane</td><td>65.13</td></tr> <tr><td>m,p-Xylene</td><td>2248.42</td></tr> <tr><td>o-Xylene</td><td>727.12</td></tr> <tr><td>Vinyl Chloride</td><td>53.44</td></tr> </table> | Acetone | 3990.00 | Acetylene Dichloride | 58.45 | Benzene | 245.69 | Chloroform | 48.00 | Cryofluorane | 32.57 | Cyclohexane | 425.02 | Dichlorodifluoromethane | 410.89 | Ethyl Alcohol | 1971.37 | Ethylbenzene | 1006.52 | Ethyl Chloride | 41.59 | Ethylene Dichloride | 66.00 | Ethylidene Chloride | 117.74 | Heptane | 479.55 | Hexane | 618.92 | Isopropyl Alcohol | 891.53 | Mesitylene | 295.90 | Methanethiol | 110.22 | Methylene Chloride | 1998.07 | Methyl Ethyl Ketone | 1316.80 | Pseudocumene | 585.71 | Styrene | 86.24 | Tetrachloroethylene | 177.67 | Tetrahydrofuran | 3990.00 | Toluene | 2492.98 | 1,1,1-trichloroethane | 51.23 | Trichloroethylene | 80.53 | Trichlorofluoromethane | 65.13 | m,p-Xylene | 2248.42 | o-Xylene | 727.12 | Vinyl Chloride | 53.44 | <p>Compendium Method TO-15, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, 2nd Ed., 1/99.</p> <p>The following equation shall be used to calculate destruction efficiency: Efficiency = $\left(1 - \frac{\text{total mass of all detected TAPs in exhaust}}{\text{total mass of all detected TAPs in inlet}}\right) \times 100$</p> <p>where, “detected TAP” equals any TAP found in the inlet in a quantity \geq its detection limit. All detected TAPs, in the exhaust, less than their detection limit shall be set equal to their detection limit for purposes of determining total mass.</p> | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.4.1 and 5.4.16. [WAC 173-401-615(1), 9/16/02] |
| Acetone | 3990.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acetylene Dichloride | 58.45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 245.69 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloroform | 48.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cryofluorane | 32.57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyclohexane | 425.02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dichlorodifluoromethane | 410.89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethyl Alcohol | 1971.37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethylbenzene | 1006.52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethyl Chloride | 41.59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethylene Dichloride | 66.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethylidene Chloride | 117.74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heptane | 479.55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hexane | 618.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Isopropyl Alcohol | 891.53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesitylene | 295.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Methanethiol | 110.22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Methylene Chloride | 1998.07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Methyl Ethyl Ketone | 1316.80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pseudocumene | 585.71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Styrene | 86.24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tetrachloroethylene | 177.67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tetrahydrofuran | 3990.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Toluene | 2492.98 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 51.23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trichloroethylene | 80.53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trichlorofluoromethane | 65.13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| m,p-Xylene | 2248.42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| o-Xylene | 727.12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vinyl Chloride | 53.44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.4.21 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Condition 2.5, 2.8.9 | F | Total PM ₁₀ emissions shall not exceed 4.9 lb/hr. | EPA RM 5, 40 CFR part 60, Appendix A, 7/1/02, and EPA RM 202, 40 CFR part 51, 7/1/02, on exhaust. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.4.1 and 5.4.16. [WAC 173-401-615(1), 9/16/02] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | Applicable Requirement (LFG Flare #1) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|---|--|--|--|--|
| 5.4.22 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Condition 2.2.2, 2.5, 2.8.9 | F | CO emissions shall not exceed 16.5 lb/hr and 0.1 lb/MMBtu. | EPA RM 10, 40 CFR part 60, Appendix A, 7/1/02, on exhaust. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.4.1 and 5.4.16. [WAC 173-401-615(1), 9/16/02] |
| 5.4.23 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.5, 2.8.9 | F | NO _x emissions shall not exceed 13.2 lb/hr. | EPA RM 7E, 40 CFR part 60, Appendix A, 7/1/08, on exhaust. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.4.1 and 5.4.16. [WAC 173-401-615(1), 9/16/02] |
| 5.4.24 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.2.4, 2.5, 2.8.9 | F | SO ₂ emissions shall not exceed 100 ppm _v and SO ₂ emissions shall not exceed 39.9 lb/hr. | EPA RM 6, 40 CFR part 60, Appendix A, 7/1/08, on exhaust. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.4.1 and 5.4.16. [WAC 173-401-615(1), 9/16/02] |

| | Applicable Requirement (LFG Flare #1) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|--|--|--|---|---|
| 5.4.25 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.5, 2.8.9 | F | Visible emissions shall not exceed 5% opacity. | EPA RM 9, 40 CFR part 60, Appendix A, 7/1/08, on exhaust. | <p>1) The permittee shall conduct monthly visible emissions surveys of the source during daylight hours as follows: a) the survey shall be conducted from a location with a clear view of the source and where the sun is not directly in the observer’s eyes. The survey location shall be at least 15 feet but not more than 0.25 miles from the source; b) survey shall be conducted during actual operation in an active cell; c) the observer will be educated in the general procedures for determining the presence of visible emissions (i.e. effects on the visibility of emissions caused by background contrast, position of the sun and amount of ambient lighting, observer position relative to source and sun, and the presence of uncombined water); d) the survey shall consist of a minimum 15 second visual observation of each stack and emission point to identify those stacks or emission points which exhibit visible emissions; e) in addition to the records required under condition 2.15, the observer shall record the wind direction, sky condition, sun location with respect to the source and the survey location, and the time duration of the survey.</p> <p>2) The permittee shall conduct RM 9 testing when visible emissions are observed during a survey or are otherwise observed by the permittee. Testing shall be conducted as follows: a) testing shall be initiated as soon as possible, but not later than 24 hours after the requirement to conduct such testing is triggered; b) all testing shall be performed during periods when the subject emission unit is operating; c) testing shall consist of certified opacity readings at 15 second intervals over a minimum period of six consecutive minutes (24 consecutive readings). If a violation is documented, appropriate and timely action shall be taken (as soon as possible, but within 24 hours) to identify and correct the problem causing the opacity. The required recordkeeping shall include the name of the person recording the information, the name(s) of the person(s) taking the corrective action, and the nature, time, date, and effectiveness of any corrective action taken in response to a violation. [WAC 173-401-615(1), 9/16/02]</p> |

| | Applicable Requirement (LFG Flare #1) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|---|--|--|---|---|
| 5.4.26 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.1, 2.10.5 | F | Construction and operation of the LFG flare shall be conducted in compliance with all data and specifications submitted with the application under which Order No. DE 98AQ-C131 is issued. | None specified. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for the terms and conditions of NOC Order No. DE 98AQ-C131 (Applicable Requirements 5.4.6 through 5.4.29). [WAC 173-401-615(1), 9/16/02] |
| 5.4.27 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Conditions 2.9.1, 2.9.2, 2.9.4, 2.9.5, 2.9.6 | F | Flare operated and maintained according to O&M manual which is kept on-site in a location known by and available to employees in direct operation of the flare. | O&M manual shall at a minimum include: normal operating parameters, a maintenance schedule, monitoring and recordkeeping requirements, monitoring procedures, and actions for abnormal operation. | Develop and implement an O&M manual which shall include but not be limited to procedures for assuring good operation of the LFG flare. The permittee shall conduct monthly inspections of the source to verify the O&M manual is being implemented and to verify the adequacy of the manual. The permittee shall take corrective action immediately but no later than 24-hours after observing any deviation from the manual (including deviations observed at times other than the monthly inspection). The permittee shall maintain a log of such inspections including the results of each inspection and any corrective action taken including any revisions to the O&M manual in response to identified problems. The O&M manual shall be kept on file, at the source, and be made available to Ecology or EPA upon request. [WAC 173-401-615(1), 9/16/02] |
| 5.4.28 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Condition 2.10.2 | F | Legible copy of Order No. DE 98AQ-C131 shall be displayed onsite at all times in a place known to source employees. | None specified. | No additional monitoring required. |
| 5.4.29 | Order No. DE 98AQ-C131 First Revision, 4/13/04, Approval Condition 2.10.3 | F | Shall be grounds for rescission of Order No. DE 98AQ-C131 if physical operation of the flare discontinued for a period of 18 months. | None specified. | The permittee shall keep records of the dates of flare operation. [WAC 173-401-615(1), 9/16/02] |

5.5 Process 5: Landfill Gas Flare #2

The following requirements apply to the LANDFILL GAS FLARE #2:

| | Applicable Requirement (LFG Flare #2) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|---|--|--|---|--|
| 5.5.1 | <p>40 CFR §60.752(b)(2)(iii), 7/1/08; 40 CFR §60.759(c), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i></p> <p>40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i></p> <p>Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.3.4, 2.6.1, 2.6.2</p> | F | <p>Flare shall be designed and operated to reduce NMOC: (a) by 98w%, OR (b) to an outlet concentration <20 ppm_v, dry basis as hexane, at 3% O₂.</p> | <p>RM 25A (as hexane) [Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.9.8]</p> <p>The following equation shall be used to calculate efficiency:</p> $\text{Control Efficiency} = \frac{(\text{NMOC}_{\text{in}} - \text{NMOC}_{\text{out}})}{\text{NMOC}_{\text{in}}}$ <p>Where, NMOC_{in} = mass of NMOC entering control device NMOC_{out} = mass of NMOC exiting control device [40 CFR §60.754(d)]</p> | <p>Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.5.10 and 5.5.16. [WAC 173-401-615(1), 9/16/02] “Exceedence,” as used in 40 CFR §60.758(c)(1)(i), shall be considered an “excursion,” for purposes of Compliance Assurance Monitoring. An excursion shall require the following corrective actions: (1) Upon detecting the excursion, the permittee shall restore operation of the flare to its normal manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion. Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action, or any necessary follow-up actions to return operations to within the indicator range. The occurrence of more than one excursion in any 12-month period will require the development of a Quality Improvement Plan meeting the requirements of 40 CFR §64.8(b). [40 CFR §64.7, 7/1/08; 40 CFR §64.8, 7/1/08; 40 CFR §64.9, 7/1/08]</p> |
| 5.5.2 | <p>40 CFR §60.753(f), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i></p> <p>40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i></p> | F | <p>Operate the LFG control and treatment system at all times when the collected gas is routed to the system.</p> | None specified. | No additional monitoring required. |

| | Applicable Requirement (LFG Flare #2) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|---|--|--|---|--|
| 5.5.3 | 40 CFR §60.755(e), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i> 40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i> | F | The provisions of the NSPS 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 1 hour for treatment or control devices. | None specified. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirement 5.2.9. [WAC 173-401-615(1), 9/16/02] |

| | Applicable Requirement (LFG Flare #2) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|---|--|--|---|--|
| 5.5.4 | 40 CFR §60.758(b), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i> 40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i> | F | Keep up-to-date, readily accessible records for the life of the control equipment of the following data, as measured during the initial performance test or compliance determination: (1) maximum expected gas generation flow rate as calculated in 5.2.5; AND , (2) the density of wells, horizontal collectors, surface collectors, or other gas extraction devices; AND, (3) the average combustion temperature measured at least every 15 minutes and averaged over the same time period of the performance test; AND, (4) the percent reduction of NMOC determined as specified in 5.5.1. 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 removed. | None specified. | No additional monitoring required. |
| 5.5.5 | 40 CFR §60.758(c), 7/1/08 <i>(Landfill NSPS Subpart WWW)</i> 40 CFR §63.1955(a)(1), 7/1/08 <i>(Landfill NESHAP Subpart AAAA)</i> | F | Keep for 5 years, up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in the landfill NSPS as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded. | None specified. | No additional monitoring required. |

| Applicable Requirement (LFG Flare #2) | | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|---------------------------------------|---|---|---|---|--|
| 5.5.6 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.3.1, 2.3.2, 2.3.3, 2.3.5 | F | Enclosed flare shall be utilized to combust LFG. | None specified. | No additional monitoring required. |
| 5.5.7 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.5.1, 2.8.1, 2.8.6, 2.9.8 | F | Limited to one flare with a maximum flow rate of 6,000 scfm LFG. | EPA RM 2C, 40 CFR part 60, Appendix A, 7/1/08. “Continuously” means 95% of the monthly flare operation, except for periods of monitoring system down-time, provided that the permittee demonstrates that the down-time was not a result of inadequate design, operation, or maintenance, or any other reasonably preventable conditions, and any necessary repairs to the monitoring system were conducted in a timely manner. | Continuously monitor the LFG flow rate with a flow indicator and recorder. [Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.8.1] |
| 5.5.8 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.5.1, 2.8.4 | F | Limited to 201.69 MMBtu/hr heat input. Monthly readings of the BTU content of the gas at the inlet to the flare shall be taken. | Calculate the BTU content as follows: $BTU_{LFG}/scf = (\%CH_4) \times (10.12)$. | Measure percentage of methane (%CH ₄) in the LFG, monthly. [Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.8.4] |
| 5.5.9 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.3.1 | F | LFG shall be treated by a knockout vessel prior to being combusted in the flare. | None specified. | No additional monitoring required. |

| | Applicable Requirement (LFG Flare #2) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|--|--|--|---|--|
| 5.5.10 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.3.4, 2.4.2, 2.7.1, 2.8.2, 2.8.6 | F | Flare shall be operated at a temperature not lower than 1500 °F with a retention time of at least 0.6 seconds. | The temperature indicator shall be located above the flame zone, at least 3 feet below the top of the flare shroud and at least 0.6 seconds downstream of the burner. “Continuously” means 95% of the monthly flare operation, except for periods of monitoring system down-time, provided that the permittee demonstrates that the down-time was not a result of inadequate design, operation, or maintenance, or any other reasonably preventable conditions, and any necessary repairs to the monitoring system were conducted in a timely manner. | Continuously operate a temperature indicator and recorder which measure and record the gas temperature in the flare stack. [Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.8.2] |
| 5.5.11 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.5.2 | F | Interlock to prevent gas from entering flares when temperature in combustion chamber < 1500 °F. | None specified. | No additional monitoring required. |
| 5.5.12 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.5.3 | F | Flare failure alarm with automatic blower and landfill gas-supply valve shut-off system. | None specified. | Safety system shall be tested monthly for proper operation and the results recorded. Records shall be kept of monthly safety system test. [WAC 173-401-615(1), 9/16/02] |

| | Applicable Requirement (LFG Flare #2) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|--|--|--|---|--|
| 5.5.13 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.8.3, 2.8.6 | F | Maintain pressure differential across the flare arrester between 0 and 20 inches water column. | “Continuously” means 95% of the monthly flare operation, except for periods of monitoring system down-time, provided that the permittee demonstrates that the down-time was not a result of inadequate design, operation, or maintenance, or any other reasonably preventable conditions, and any necessary repairs to the monitoring system were conducted in a timely manner. | Continuously maintain a pressure differential indicator. [Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.8.3] |
| 5.5.14 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.8.5 | F | All recording devices must be synchronized based on the time of the day. | None specified. | No additional monitoring required. |
| 5.5.15 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.9.3, 2.9.4, 2.9.7, 2.10.2 | F | Ecology shall be notified, and a test plan shall be submitted, at least 30 days prior to any testing. Written results of all required source testing shall be submitted to Ecology within 90 days of occurrence. | The test plan must include the identity of the independent testing firm, and a description of all sampling and analytical procedures to be used. The test shall include all the requirements of 40 CFR §60.18. Emission unit operation during the tests must be representative of actual operating conditions. A complete record of operation related parameters (temperature, flow, differential pressure) shall be kept during the tests. | No additional monitoring required. |

| | Applicable Requirement (LFG Flare #2) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|---|--|---|--|---|
| 5.5.16 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.9.2, 2.9.5, 2.9.6, 2.9.8 | F | Source tests shall include a test for: velocity & flowrate, moisture, BTU content (inlet only), O ₂ , CO ₂ , NO _x (exhaust only), CO (exhaust only), SO ₂ (exhaust only), total PM (exhaust only), NMOC, methane, organic TAPs, HCl, H ₂ S and other speciated sulfur compounds, and opacity (exhaust only). | Methods as indicated in above applicable requirements. EPA RM 4, 40 CFR part 60, Appendix A, 7/1/08, for moisture. EPA RM TO-15, for BTU content. EPA RM 3A, 40 CFR part 60, Appendix A, 7/1/08, for O ₂ and CO ₂ . EPA RM 25A (as hexane), 40 CFR part 60, Appendix A, 7/1/08, for NMOC. EPA RM 25A (as methane), 40 CFR part 60, Appendix A, 7/1/08, for methane. Sampling ports and platforms must be provided. Adequate permanent and safe access to the test ports must be provided. All source testing shall consist of 3 separate runs. When source testing is conducted, the LFG flow rate shall be the maximum flow achievable, through variables within the control of the landfill operators, with all flow control adjustments at normal settings. | Source testing shall be conducted at intervals not greater than 5 years for the life of the source. A source test shall be conducted within 180 days of the first operation of the flare. [Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.9.1] |
| 5.5.17 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.4.1, 2.6.1, 2.6.2, 2.9.8 | F | 99% destruction or removal of H ₂ S and other unoxidized sulfur compounds. H ₂ S emissions shall not exceed 0.0081 lb/hr. | EPA RM 16, 40 CFR part 60, Appendix A, 7/1/08. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.5.1, and 5.5.16. [WAC 173-401-615(1), 9/16/02] |
| 5.5.18 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.6.1, 2.9.8. | F | HCl shall not exceed 4.6 lb/hr. | EPA RM 26, 40 CFR part 60, Appendix A, 7/1/08. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.5.1 and 5.5.16. [WAC 173-401-615(1), 9/16/02] |

| | Applicable Requirement (LFG Flare #2) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|---|--|---------------------------------------|-----|---------------------------|-----|-----------------------|-----|--------------------|-----|--|-----|---------------------|-----|------------------------|------|------------------------|-----|--------------------|-----|---------------|-----|------------------------|-----|---------------------|-----|-------------|-----|---------------------|-----|--------------------------|-----|------------|-----|----------------------|-----|---------|------|---------------|-----|----------------|------|---------|-----|-----------------|------|-----------|------|--------------|-----|------------------|------|----------------------|-----|---------------|-----|-----------------------|-----|---|--|
| 5.5.19 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.6.1, 2.9.8 | F | NMOC shall not exceed 4.0 lb/hr. | RM 25A (as hexane). | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.5.1 and 5.5.16. [WAC 173-401-615(1), 9/16/02] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.5.20 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.2, 2.4.2, 2.6.1, 2.6.2, 2.9.8 | F | <p>At least 99% destruction efficiency of combined organic TAPs. Individual TAP emissions shall not exceed (lb/yr):</p> <table border="0"> <tr><td>1,1,1-Trichloroethane</td><td>6.1</td></tr> <tr><td>1,1,2 Trichloro-1,2,2-trifluoroethane</td><td>8.6</td></tr> <tr><td>1,1,2,2-Tetrachloroethane</td><td>7.7</td></tr> <tr><td>1,1,2-Trichloroethane</td><td>6.1</td></tr> <tr><td>1,1-Dichloroethane</td><td>4.4</td></tr> <tr><td>1,2 Dichloro-1,1,2,2-tetrafluoroethane</td><td>7.8</td></tr> <tr><td>1,2 Dichloropropane</td><td>5.2</td></tr> <tr><td>1,2,4 Trichlorobenzene</td><td>16.6</td></tr> <tr><td>1,2,4 Trimethylbenzene</td><td>5.5</td></tr> <tr><td>1,2-Dichloroethane</td><td>9.1</td></tr> <tr><td>1,3 Butadiene</td><td>2.5</td></tr> <tr><td>1,3,5 Trimethylbenzene</td><td>5.5</td></tr> <tr><td>1,3-Dichlorobenzene</td><td>6.7</td></tr> <tr><td>1,4 Dioxane</td><td>8.1</td></tr> <tr><td>1,4-Dichlorobenzene</td><td>6.7</td></tr> <tr><td>2, 2, 4 Trimethylpentane</td><td>5.2</td></tr> <tr><td>2-Hexanone</td><td>9.2</td></tr> <tr><td>4-Methyl-2-pentanone</td><td>4.6</td></tr> <tr><td>Acetone</td><td>16.1</td></tr> <tr><td>Acrylonitrile</td><td>2.4</td></tr> <tr><td>Allyl Chloride</td><td>35.7</td></tr> <tr><td>Benzene</td><td>3.6</td></tr> <tr><td>Benzyl Chloride</td><td>11.6</td></tr> <tr><td>Bromoform</td><td>11.6</td></tr> <tr><td>Bromomethane</td><td>4.4</td></tr> <tr><td>Carbon Disulfide</td><td>58.8</td></tr> <tr><td>Carbon Tetrachloride</td><td>7.1</td></tr> <tr><td>Chlorobenzene</td><td>5.2</td></tr> <tr><td>Chlorodifluoromethane</td><td>7.9</td></tr> </table> | 1,1,1-Trichloroethane | 6.1 | 1,1,2 Trichloro-1,2,2-trifluoroethane | 8.6 | 1,1,2,2-Tetrachloroethane | 7.7 | 1,1,2-Trichloroethane | 6.1 | 1,1-Dichloroethane | 4.4 | 1,2 Dichloro-1,1,2,2-tetrafluoroethane | 7.8 | 1,2 Dichloropropane | 5.2 | 1,2,4 Trichlorobenzene | 16.6 | 1,2,4 Trimethylbenzene | 5.5 | 1,2-Dichloroethane | 9.1 | 1,3 Butadiene | 2.5 | 1,3,5 Trimethylbenzene | 5.5 | 1,3-Dichlorobenzene | 6.7 | 1,4 Dioxane | 8.1 | 1,4-Dichlorobenzene | 6.7 | 2, 2, 4 Trimethylpentane | 5.2 | 2-Hexanone | 9.2 | 4-Methyl-2-pentanone | 4.6 | Acetone | 16.1 | Acrylonitrile | 2.4 | Allyl Chloride | 35.7 | Benzene | 3.6 | Benzyl Chloride | 11.6 | Bromoform | 11.6 | Bromomethane | 4.4 | Carbon Disulfide | 58.8 | Carbon Tetrachloride | 7.1 | Chlorobenzene | 5.2 | Chlorodifluoromethane | 7.9 | <p>Compendium Method TO-15, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, 2nd Ed., 1/99.</p> <p>The following equation shall be used to calculate destruction efficiency:</p> $\text{Efficiency} = \left(1 - \left(\frac{\text{total mass of all detected TAPs in exhaust}}{\text{total mass of all detected TAPs in inlet}} \right) \right) \times 100$ <p>where, “detected TAP” equals any TAP found in the inlet in a quantity \geq its detection limit. All detected TAPs, in the exhaust, less than their detection limit shall be set equal to their detection limit for purposes of determining total mass.</p> | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.5.1 and 5.5.16. [WAC 173-401-615(1), 9/16/02] |
| 1,1,1-Trichloroethane | 6.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,2 Trichloro-1,2,2-trifluoroethane | 8.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 7.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,2-Trichloroethane | 6.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | 4.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2 Dichloro-1,1,2,2-tetrafluoroethane | 7.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2 Dichloropropane | 5.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,4 Trichlorobenzene | 16.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,4 Trimethylbenzene | 5.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2-Dichloroethane | 9.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,3 Butadiene | 2.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,3,5 Trimethylbenzene | 5.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,3-Dichlorobenzene | 6.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,4 Dioxane | 8.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,4-Dichlorobenzene | 6.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2, 2, 4 Trimethylpentane | 5.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Hexanone | 9.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Methyl-2-pentanone | 4.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acetone | 16.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acrylonitrile | 2.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Allyl Chloride | 35.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 3.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzyl Chloride | 11.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bromoform | 11.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bromomethane | 4.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbon Disulfide | 58.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbon Tetrachloride | 7.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chlorobenzene | 5.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chlorodifluoromethane | 7.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | Applicable Requirement (LFG Flare #2) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------------------------|--|--|--|---|--|
| | | | <i>(Continues to next page)</i> | | |
| 5.5.20 <i>(Cont.)</i> | | | Chloroethane 3 Chloroform 5.5 Chloromethane 2.3 cis-1,2-Dichloroethene 4.4 cis-1,3 Dichloropropene 5.1 Cyclohexane 3.9 Dichlorodifluoromethane 5.5 Dichlorofluoromethane 4.7 Ethanol 10.6 Ethyl Acetate 4.0 Ethylbenzene 4.9 Heptane 4.6 Hexachlorobutadiene 19 Hexane 92.6 Isopropyl Alcohol 5.5 m- & p-Xylenes 4.9 MEK 6.6 Methanol 58.8 Methylene Chloride 7.8 MTBE 4 o-Xylene 4.9 Styrene 4.8 Tetrachloroethene 7.6 Tetrahydrofuran 3.3 Toluene 10 trans-1,2-Dichloroethene 4.4 Trans-1,3-Dichloropropene 5.1 Trichloroethene 12 Trichlorofluoromethane 6.3 Vinyl Acetate 3.9 Vinyl Bromide 4.9 Vinyl Chloride 2.9 trans-1,2-Dichloroethene 4.4 Trans-1,3-Dichloropropene 5.1 Trichloroethene 12 Trichlorofluoromethane 6.3 Vinyl Acetate 3.9 Vinyl Bromide 4.9 Vinyl Chloride 2.9 | | |

| Applicable Requirement (LFG Flare #2) | | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--|--|--|--|---|--|
| 5.5.21 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.6.1, 2.9.8 | F | Total PM ₁₀ emissions shall not exceed 6.1 lb/hr. | EPA RM 5, 40 CFR part 60, Appendix A, 7/1/02, and EPA RM 202, 40 CFR part 51, 7/1/02, on exhaust. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.5.1 and 5.5.16. [WAC 173-401-615(1), 9/16/02] |
| 5.5.22 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.3.2, 2.6.1, 2.9.8 | F | CO emissions shall not exceed 16.1 lb/hr and 0.08 lb/MMBtu. | EPA RM 10, 40 CFR part 60, Appendix A, 7/1/02, on exhaust. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.5.1 and 5.5.16. [WAC 173-401-615(1), 9/16/02] |
| 5.5.23 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.3.3, 2.6.1, 2.9.8 | F | NO _x emissions shall not exceed 12.1 lb/hr and 0.06 lb/MMBtu. | EPA RM 7E, 40 CFR part 60, Appendix A, 7/1/08, on exhaust. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.5.1 and 5.5.16. [WAC 173-401-615(1), 9/16/02] |
| 5.5.24 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.3.5, 2.6.1, 2.9.8 | F | SO ₂ emissions shall not exceed 100 ppm _v , 0.08 lb/MMBtu, and 16.1 lb/hr. | EPA RM 6, 40 CFR part 60, Appendix A, 7/1/08, on exhaust. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for Applicable Requirements 5.5.1 and 5.5.16. [WAC 173-401-615(1), 9/16/02] |

| | Applicable Requirement (LFG Flare #2) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|---|--|--|---|---|
| 5.5.25 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.6.1, 2.9.8 | F | Visible emissions shall not exceed 5% opacity. | EPA RM 9, 40 CFR part 60, Appendix A, 7/1/08, on exhaust. | <p>1) The permittee shall conduct monthly visible emissions surveys of the source during daylight hours as follows: a) the survey shall be conducted from a location with a clear view of the source and where the sun is not directly in the observer’s eyes. The survey location shall be at least 15 feet but not more than 0.25 miles from the source; b) survey shall be conducted during actual operation in an active cell; c) the observer will be educated in the general procedures for determining the presence of visible emissions (i.e. effects on the visibility of emissions caused by background contrast, position of the sun and amount of ambient lighting, observer position relative to source and sun, and the presence of uncombined water); d) the survey shall consist of a minimum 15 second visual observation of each stack and emission point to identify those stacks or emission points which exhibit visible emissions; e) in addition to the records required under condition 2.15, the observer shall record the wind direction, sky condition, sun location with respect to the source and the survey location, and the time duration of the survey.</p> <p>2) The permittee shall conduct RM 9 testing when visible emissions are observed during a survey or are otherwise observed by the permittee. Testing shall be conducted as follows: a) testing shall be initiated as soon as possible, but not later than 24 hours after the requirement to conduct such testing is triggered; b) all testing shall be performed during periods when the subject emission unit is operating; c) testing shall consist of certified opacity readings at 15 second intervals over a minimum period of six consecutive minutes (24 consecutive readings). If a violation is documented, appropriate and timely action shall be taken (as soon as possible, but within 24 hours) to identify and correct the problem causing the opacity. The required recordkeeping shall include the name of the person recording the information, the name(s) of the person(s) taking the corrective action, and the nature, time, date, and effectiveness of any corrective action taken in response to a violation. [WAC 173-401-615(1), 9/16/02]</p> |

| | Applicable Requirement (LFG Flare #2) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|--|--|---|---|---|
| 5.5.26 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.11.5 | F | Construction and operation of the LFG flare shall be conducted in compliance with all data and specifications submitted with the application under which Order No. 08AQ-C087 First Revision, is issued. | None specified. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for the terms and conditions of NOC Order No. 08AQ-C087 (Applicable Requirements 5.5.6 through 5.5.32). [WAC 173-401-615(1), 9/16/02] |
| 5.5.27 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Conditions 2.7.2, 2.7.3, 2.7.5, 2.7.6, 2.7.7 | F | Flare operated and maintained according to an O&M manual which is kept on-site in a location known by and available to employees in direct operation of the flare. | O&M manual shall at a minimum include: normal operating parameters, a maintenance schedule, monitoring and recordkeeping requirements, monitoring procedures, and actions for abnormal operation. | Develop and implement an O&M manual which shall include but not be limited to procedures for assuring good operation of the LFG flare. The permittee shall conduct monthly inspections of the source to verify the O&M manual is being implemented and to verify the adequacy of the manual. The permittee shall take corrective action immediately but no later than 24-hours after observing any deviation from the manual (including deviations observed at times other than the monthly inspection). The permittee shall maintain a log of such inspections including the results of each inspection and any corrective action taken including any revisions to the O&M manual in response to identified problems. The O&M manual shall be kept on file, at the source, and be made available to Ecology or EPA upon request. [WAC 173-401-615(1), 9/16/02] |
| 5.5.28 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.11.8 | F | Legible copy of Order No. 08AQ-C087 First Revision, shall be displayed onsite at all times in a place known to source employees. | None specified. | No additional monitoring required. |
| 5.5.29 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.11.3 | F | Shall be grounds for rescission of Order No. 08AQ-C087 First Revision, if physical operation of the flare discontinued for a period of 18 months. | None specified. | The permittee shall keep records of the dates of flare operation. [WAC 173-401-615(1), 9/16/02] |

| | Applicable Requirement (LFG Flare #2) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|--------|--|--|---|---|--|
| 5.5.30 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.5.4 | F | Discharge point for combustion products at least 60 feet above ground level. | None specified. | No additional monitoring required. |
| 5.5.31 | This condition intentionally left blank. | | | | |
| 5.5.32 | Order No. 08AQ-C087 First Revision, 9/16/10, Approval Condition 2.11.2 | F | Plans, specifications, and other information submitted relative to LFG Flare #2 are incorporated and made part of Order No. 08AQ-C087 First Revision. | None specified. | Adhere to “Monitoring, Recordkeeping, and Reporting to be Performed by Permittee,” for the terms and conditions of NOC Order No. 08AQ-C087 (Applicable Requirements 5.5.1 through 5.5.32). [WAC 173-401-615(1), 9/16/02] |

5.6 Process 6: Rock Crushing

The following requirements apply to ROCK CRUSHING:

| Applicable Requirement (Rock Crushing) | | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|---|---|--|---|---|--|
| 5.6.1 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.6 | F | Rock crushing conducted on a basis of one or less 18-week period per calendar year according to established conditions. Rock crushing on a basis of more than one 18-week period shall be conducted in enclosed buildings or the equivalent, as approved, in writing, by Ecology. | Ecology shall be notified, in writing at least 10 days prior to the location of the rock crushing equipment on-site and of the name of the owner or operator of this equipment. | The permittee shall keep records of the dates when a rock crusher was on-site. [WAC 173-401-615(1), 9/16/02] |
| 5.6.2 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.6.1 | F | Enclosure of all transfer points. | None specified. | No additional monitoring required. |
| 5.6.3 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.6.2 | F | Emissions from all screens controlled at all times during operation. | None specified. | No additional monitoring required |

| | Applicable Requirement (Rock Crushing) | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|-------|--|--|---|--|--|
| 5.6.4 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.6.3, 3.1.6.4 | F | Cease all rock crushing operation when the one-hour average wind speed exceeds, or is equal to, 20 mph, except when water mist is used to control fugitive emissions. Cease all rock crushing operation when the wind is strong enough that best efforts to control fugitive emissions are not effective. | Based on wind measurements at the source’s meteorological station. | The permittee shall keep records of the hourly wind speed and the dates and times during which rock crushing occurred. [WAC 173-401-615(1), 9/16/02] |
| 5.6.5 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.6.5 | F | Dust control systems in place and maintained in good operating condition during all periods of crusher operation. | None specified. | No additional monitoring required. |
| 5.6.6 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.6.6 | F | Fugitive dust controlled by good housekeeping. | None specified. | Includes but is not limited to watering of roads and cleaning around the crusher to prevent buildup of fine materials. [Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.6.6] |

| Applicable Requirement (Rock Crushing) | | Enforceability (Federal = F, State = S) | Description (for clarification purposes only, enforceable as listed under ‘Applicable Requirement’) | Monitoring and Analysis Procedure or Test Method | Monitoring, Recordkeeping, and Reporting to be Performed by Permittee |
|---|---|--|---|---|--|
| 5.6.7 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.6.7 | F | All rock mined on-site shall be used on-site. | None specified. | No additional monitoring required. |
| 5.6.8 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.6.8 | F | Stockpiles located to minimize exposure to wind. May require use of portable wind screens or wind fences. | None specified. | No additional monitoring required. |
| 5.6.9 | Order No. DE 90-C153 Fifth Revision, 12/23/08, Approval Condition 3.1.6 | F | The rock crusher owner and operator shall be provided with copies of, and shall follow Order No. DE 90-C153 Fifth Revision. | None specified. | No additional monitoring required. |

6.0 INAPPLICABLE REQUIREMENTS

Ecology has determined that the entire source, including all emission units, is not subject to the following requirements at the time of permit issuance. Some of the requirements listed below may become applicable during the permit term due to an invoking event, even though the requirement is deemed inapplicable at the time of permit issuance. Such requirements shall be met on a timely basis by the permittee by submittal of a compliance schedule therefor, per WAC 173-401,510(2)(h)(iii)(B).

| Inapplicable Requirement | Title | Explanation |
|---------------------------------|--|---|
| WAC 173-405 | Kraft Pulp Mill | Not in this source category. |
| WAC 173-406 | Acid Rain Regulations | Source does not include an affected unit. |
| WAC 173-410 | Sulfite Pulp Mill | Not in this source category. |
| WAC 173-415 | Primary Aluminum Plants | Not in this source category. |
| WAC 173-433 | Solid Fuel Burning Devices | Not in this source category. |
| WAC 173-434 | Solid Waste Incinerator Facilities | Not in this source category. |
| WAC 173-470 | Ambient Air Quality Standards for Particulate Matter | Applicable if triggered. |
| WAC 173-474 | Ambient Air Quality Standards for Sulfur Oxides | Applicable if triggered. |
| WAC 173-475 | Ambient Air Quality Standards for Carbon Monoxide, Ozone, and Nitrogen Dioxide | Applicable if triggered. |
| WAC 173-480 | Ambient Air Quality Standards and Emission Limits for Radionuclides | Source does not emit this regulated pollutant. |
| WAC 173-481 | Ambient Air Quality and Environmental Standards for Fluorides | Source does not emit this regulated pollutant. |
| WAC 173-490 | Emissions Standards and Controls for Sources Emitting Volatile Organic Compounds (VOC) | Source not located in an ozone nonattainment area or included in WAC 173-490-030 listing. |
| Order No. DE 93AQ-C416 | NOC to install and operate a leachate evaporator | VOID – Not constructed within 18 months. |
| Order No. DE 93AQ-C417 | NOC to install and operate a LFG collection and flare system | Superseded by Order No. DE 98AQ-C131 First Revision, 4/13/04. |