

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
AIR QUALITY CONTROL MINOR GENERAL PERMIT**

**MINOR GENERAL PERMIT 3 FOR HOT-MIX ASPHALT PLANTS**

**PERMIT NO.** AQ\_\_\_MG30\_ Revision 4

Final – April 1, 2023

This minor general permit is to be used for the construction, operation, or relocation of the asphalt plant described below, which has a rated capacity of at least five tons per hour of product, as described in 18 AAC 50.502(b)(1), that is also classified as, or is part of, a minor stationary source, but is not a Title-V stationary source. This minor general permit satisfies the Permittee’s obligation to obtain a permit under AS 46.14.120(g). Technical support for permit conditions and an explanation of revisions from the 2013 Minor General Permit 3 can be found in the Technical Analysis Report. This permit authorizes the Permittee to operate any emission unit identified in Table A. The operator must comply with the applicable requirements at the location where the emission units operate.

This minor general permit does not expire and is valid until the Alaska Department of Environmental Conservation (ADEC or Department) terminates, modifies, reopens, or revokes and reissues the permit. The letter of authorization is in effect until withdrawn, modified, revoked and reissued, or if the source no longer qualifies for this permit. The use of sample forms provided with this permit are not a reporting requirement, however, any independently developed form must contain all the reporting requirements listed within this permit.

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James R. Plosay, Manager  
Air Permits Program

Application determined complete by:

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Signature

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Authorization Date

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Printed Name

**Table A – Facility Information**

<b>Permittee:</b>		<b>Plant Name:</b>	
<b>Emissions Unit</b>	<b>Make</b>	<b>Model/Description</b>	<b>Rating/ Capacity</b>
<b>Asphalt Plant:</b>			
<b>Diesel Engines:</b>			
<b>Plant Type:</b> <input type="checkbox"/> Drum <input type="checkbox"/> Batch <b>Control Equipment:</b> <input type="checkbox"/> Baghouse <input type="checkbox"/> Wet Scrubber			

**Table B – Pre-Approved Operating Locations**

Location Name	Site Description (Street Address or Mile Post)	Latitude/ Longitude (decimal degrees <sup>2</sup> )
<b>Storage or Maintenance Location<sup>1</sup></b>		
<b>Operating Locations<sup>3</sup></b>		

1 – Asphalt plant storage or maintenance location: special consideration given in Condition 2.3 for unexpected maintenance or repair. Storage or maintenance location may not be a suitable site(s) for asphalt production if minimum setbacks in Condition 1.1 are not satisfied.

2 – Location’s latitude/ longitude must be specified to at least four decimal places.

3 – Pre-Approved Locations represent only ADEC Air Permits Program approval to operate at a site. Permittee may require additional authorizations from other State, Local, or private entities to operate at a location. The Department may revoke Pre-Approval if the setback requirements of Condition 1.1 are no longer satisfied, excessive complaints are received, or other agency requirements are not satisfied. Verify whether the pre-approved site still meets set-back criteria before relocation.

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\* Online submission of reports may require use of standardized Sample Forms.

## MG3 OPERATING PERMIT CONDITIONS

### LOCATION RESTRICTIONS

1. **Ambient Air Quality Protection.** Give adequate consideration to siting issues when operating or changing locations of an asphalt plant (see *Note* in Technical Analysis Report).
  - 1.1. Do not operate the Asphalt Plant or a diesel engine within 330 feet of the nearest occupied structure off the work site.
  - 1.2. Do not operate for more than 24 months from initial startup at the same site located:
    - a. within 800 feet of the nearest residence or other occupied structure off worksite; or
    - b. within 1,100 feet of the nearest residence or other occupied structure off worksite if the residence or structure is located on terrain that is more than 50 feet above any ground level of the Asphalt Plant aggregate dryer or drum mixer.
  - 1.3. **Nonroad engine location restrictions.** An engine that meets the definition of nonroad engine under 40 C.F.R. 1068.30-Nonroad Engine-(1)(iii)<sup>1</sup>, does not qualify as a nonroad engine if it remains or will remain at a location for more than 12 consecutive months or is located at a seasonal source and operates during the full annual operating period of the seasonal source. Monitor, record, and report in accordance with Condition 12.
  - 1.4. **Additional Restrictions for Bells Flats (Kodiak).** In any equipment operating at an asphalt plant in the Bells Flats area of Kodiak that burns liquid fuel, you must burn ULSD. Monitor, record, and report in accordance with Condition 8.
  - 1.5. **Co-Located Equipment.** If two Asphalt Plants are co-located at the same location, do not produce asphalt product from both plants concurrently. A Rock Crusher with a valid MG9 permit may be co-located and be operated with an asphalt plant with this permit.
    - a. Calculate, record, and report in the FOR required under Condition 5.3 the following:
      - (i) the total actual emissions of each criteria air pollutant for each month from the site; and
      - (ii) the 12-month rolling total emissions for each month of the prior 12-month period for all permitted equipment.
    - b. For emission calculations, use the methods set out in *Appendix A: Assessable Emissions Calculation (MG3)* of this permit, the *MG3 Assessable Emissions Spreadsheet* on the Department's general permit website<sup>2</sup>, or other methods approved by the Department.

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<sup>1</sup> Definition for *Nonroad Engine* in 40 C.F.R. 1068.30-Nonroad Engine-(1)(iii): Except as discussed in paragraph (2) of this definition, a nonroad engine is an internal combustion engine that by itself or in or on a piece of equipment, it is portable or transportable, meaning designed to be and capable of being carried or moved from one location to another. Indicia of transportability include, but are not limited to, wheels, skids, carrying handles, dolly, trailer, or platform.

<sup>2</sup> Worksheets to calculate MG3 and MG9 Assessable Emissions: <https://dec.alaska.gov/air/air-permit/general-permits/>

2. **Relocation Reporting Requirements.** Provide notice to the Department before installing or relocating the Asphalt Plant by using *Form 1: Relocation Notification* of this permit or reporting all information the form contains to the Department. Site selection must comply with Condition 1.1. If the location is within one mile of the nearest occupied off-site structure, you must attach a fugitive dust control plan as part of the relocation notice; see Condition 19.
  - 2.1. **Pre-Approved Locations.** Provide notice to the Department at least 8 hours before installing or relocating the Asphalt Plant to a pre-approved location listed in Table B using Air Online Services. Provide at least 5 days' notice to the Department using any method other than Air Online Services.
  - 2.2. **New Locations.** Provide notice to the Department at least 48 hours before installing or relocating the Asphalt Plant to a new location using Air Online Services. Provide at least 5 days' notice to the Department using any method other than Air Online Services.
  - 2.3. **Unexpected Breakdown and Repair.** If the Asphalt Plant requires unexpected maintenance or repair, provide notice to the Department within 24 hours of relocating the Plant to its pre-approved storage location listed in the first row of Table B. Note that relocating using this condition does not allow for production.

## GENERAL RECORDKEEPING AND REPORTING REQUIREMENTS

3. **General Recordkeeping.** Keep copies of all monitoring, recordkeeping, reporting, and all other documents required in this permit for at least five years.
4. **Equipment Operated.** Report all equipment operated under this permit during the reporting season within each Facility Operating Report (FOR) required in Condition 5.3. Include a detailed list of equipment installed, removed and operated during the reporting season. Include make, model and rated capacity in *Form 9: Equipment Operated Report Form* or an equivalent summary form.
  - 4.1. **Rental Agreements.** Report any equipment listed in Table A which is leased, rented or otherwise provided under any business arrangement to a third party . Rental agreements must include language certifying that the third party will comply with Alaska Statutes and Regulations. Both parties must complete *Form 11: Rental Equipment Notification* or an equivalent document. The Permittee must submit the Rental Equipment Notification to the Department within 7 days of rental to the third party.
5. **General Reporting.**
  - 5.1. **Submittals.** Unless otherwise directed by the Department, submit to the Department one certified copy of reports, compliance certifications, and/or other submittals required by this permit, using one of the following methods:
    - a. The Air Online Services Permittee Portal located at <http://dec.alaska.gov/Applications/Air/airtoolsweb>; this requires the Permittee to have a MyAlaska account and the Responsible Official documented with the Department for electronic signature; or
    - b. Email, under a cover letter, to [dec.aq.airreports@alaska.gov](mailto:dec.aq.airreports@alaska.gov); or

c. Mail to: ADEC Air Compliance Program  
 Attn: Compliance Technician  
 610 University Avenue  
 Fairbanks, AK 99709-3643

5.2. **Certification.** The Permittee shall certify any permit application, report, affirmation, or compliance certification submitted to the Department and required under the permit by including the signature of a responsible official for the permitted stationary source following the statement: “Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this *document are true, accurate, and complete.*” Excess emissions reports must be certified either upon submittal or with an operating report required for the same reporting period. All other reports and other documents must be certified upon submittal.

- a. The Department may accept an electronic signature on an electronic application or other electronic record required by the Department if the person providing the electronic signature
  - (i) uses a security procedure, as defined in AS 09.80.190, that the Department has approved; and
  - (ii) accepts or agrees to be bound by an electronic record executed or adopted with that signature.

5.3. **Operating Reports.** Submit operating reports as directed by Condition 5.1 by the dates listed in Table C. The semi-annual Facility Operating Report (FOR) must include all information required by other conditions of this permit, for the period covered by the report. If the facility does not operate during the winter season, you may submit a report early with your summer FOR. You may use *Form 4: Minor General Permit (MG3) – Facility Operating Report Form* or a format of your own provided all of the required information is reported.

**Table C – Operating Report Schedule**

Report Type	Reporting Period	Due Date
FOR	April 1 – October 31	November 30
FOR	November 1 – March 31	April 30

5.4. **Information Requests.** Furnish to the Department, within a reasonable time, any information that the Department requests in writing to determine whether cause exists to modify, revoke and reissue, or terminate the permit or to determine compliance with the permit. Upon request, furnish to the Department copies of records required to be kept by the permit. The Department may require you to furnish copies of those records directly to the federal administrator.

STATE STANDARDS

**Table D – Emissions Limits**

Emission type	Limit
<b>Opacity (Visible Emissions)</b>	20% average opacity over any six consecutive minutes for asphalt plant and diesel generators
<b>Particulate Matter (PM)</b>	0.05 gr/dscf averaged over three hours for asphalt plants constructed or modified on or before June 11, 1973 and diesel generators 0.04 gr/dscf averaged over three hours for asphalt plants constructed or modified after June 11, 1973
	PM monitoring thresholds for diesel generators: 20% average opacity in any 18-consecutive minutes for exhaust stack diameters 18 inches or greater 15% average opacity in any 18-consecutive minutes for exhaust stack diameters less than 18 inches
<b>Sulfur Compounds expressed as sulfur dioxide (SO<sub>2</sub>)</b>	500 ppm averaged over three hours

6. **Visible Emissions (VE).** Comply with the visible emissions limits for asphalt plants and diesel engines, as set out in Table D.

6.1. **Asphalt Plant.** VE monitoring, recordkeeping, and reporting (MR&R) requirements:

<b>Monitor:</b>	<ul style="list-style-type: none"> <li>• Conduct EPA Method 9 observation for 18 minutes to obtain 72 consecutive 15-second opacity observations from the asphalt plant.</li> <li>• Identify fugitive emission points capable of producing fugitive emissions. Determine which point has the greatest continuous opacity and use this point for monitoring fugitive emissions.</li> <li>• Observe visible emissions using Method 9 at the baghouse stack or wet scrubber stack AND at the fugitive emission point identified above:               <ul style="list-style-type: none"> <li>○ During regular operation loads (not on idle or reduced loads);</li> <li>○ Within two days of startup at the beginning of the season or after relocation; and</li> <li>○ Within the first two days of production during each calendar month of operation.</li> </ul> </li> </ul>
<b>Record:</b>	<ul style="list-style-type: none"> <li>• Keep all observation sheets and summaries for at least five years.</li> <li>• Calculate and record the highest 6-consecutive-minute averages observed.</li> </ul>
<b>Report:</b>	<ul style="list-style-type: none"> <li>• Include the following with the semi-annual FOR required under Condition 5.3, for the period covered by the report:               <ul style="list-style-type: none"> <li>○ a list of emission points identified and which point was monitored; this list may be in the form of a simple list, picture with points circled and labeled, or a flow diagram with labeled emissions points;</li> <li>○ copies of all Method 9 observations conducted during the reporting period (use <i>Form 5: Method 9 Visible Emissions Observations</i> form or equivalent); and</li> <li>○ copies of all Method 9 training certificates for all observers in the reporting period.</li> </ul> </li> <li>• Report in accordance with Condition 10:               <ul style="list-style-type: none"> <li>○ any failure to monitor as a permit deviation;</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>○ if six-minute average opacity is observed as greater than 20%, report as excess emissions under Condition 10 and refer to Condition 18 for Good Air Pollution Control Practices; take corrective actions as appropriate.</li> </ul>
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6.2. **Diesel Engines.** VE monitoring, recordkeeping, and reporting (MR&R) requirements:

<b>Monitor:</b>	<ul style="list-style-type: none"> <li>● Use the Smoke/No Smoke Plan or EPA Method 9 to observe emissions from the exhaust stack or port of each stationary diesel engine.</li> <li>● <b>Smoke/No Smoke Plan:</b> Observe each stack for the presence or absence of visible emissions, excluding water vapor.             <ul style="list-style-type: none"> <li>○ Initial Frequency: Conduct Smoke/No Smoke observations once every operating day for 30 days.</li> <li>○ Reduced Frequency: After monitoring for 30 consecutive operating days, conduct Smoke/No Smoke observations at least once every 30 operating days.</li> <li>○ Smoke Observed: If visible emissions are observed, follow the corrective actions in Condition 6.3.</li> </ul> </li> <li>● <b>Method 9:</b> Conduct all observations for 18 minutes to obtain 72 consecutive 15-second opacity observations.             <ul style="list-style-type: none"> <li>○ First observation: within two days of the beginning of the operating season or after relocating the plant, or within three days after changing from the Smoke/No Smoke Plan.</li> <li>○ Reduced Observation: After the first observation, conduct observations at least once every 30 operating days.</li> <li>○ If a six-minute average opacity observation is greater than the limit in Table D, refer to corrective actions in Condition 7.1.</li> </ul> </li> </ul>
<b>Record:</b>	<ul style="list-style-type: none"> <li>● Keep all observation sheets, logs, summaries, and Method 9 training certificates for at least five years.</li> <li>● Record date, time, production rate, observer name, and smoke observation in Smoke/No Smoke log.</li> </ul>
<b>Report:</b>	<ul style="list-style-type: none"> <li>● Include the following with the semi-annual FOR required under Condition 5.3, for the period covered by the report:             <ul style="list-style-type: none"> <li>○ which method you used;</li> <li>○ copies of all Method 9 observations and/or a complete Smoke/No Smoke log (use <i>Form 5: Method 9 Visible Emissions Observations</i> form, and/or <i>Form 6: Smoke/No Smoke Log – Diesel Engines</i>, or equivalent);</li> <li>○ if/when you changed visible emissions observation methods;</li> <li>○ any visible emissions observed under the Smoke/No Smoke Plan and a summary of any corrective actions taken.</li> </ul> </li> <li>● Report in accordance with Condition 10:             <ul style="list-style-type: none"> <li>○ any Method 9 observations that exceeded the limit in Table D; and</li> <li>○ if any visible emissions monitoring was not performed when required.</li> </ul> </li> </ul>

- 6.3. **Corrective Actions Based on Smoke/No Smoke Observations in Condition 6.2 (for diesel engines only).** If visible emissions are present in the engine exhaust while conducting Smoke/No Smoke observations:
- a. Initiate actions to eliminate visible emissions from the engine within 24 hours of the observation;
  - b. Keep a written record of the starting date, completion date, and a description of the actions taken to reduce visible emissions; and
  - c. After completing the actions required under Condition 6.3.a,
    - (i) conduct Smoke/No Smoke observations in accordance with Condition 6.2 at least once per day for the next seven operating days and, if applicable, until the initial 30-day observation period of Condition 6.2 is completed; or
    - (ii) if the actions taken under Condition 6.3.a do not eliminate the visible emissions, or if subsequent visible emissions are observed under the schedule of Condition 6.3.c.(i), then observe the engine exhaust using the Method 9 Plan unless the Department gives written approval to resume observations under the Smoke/No Smoke Plan. After observing visible emissions and making observations under the Method 9 Plan, the Permittee may at any time take corrective action that eliminates visible emissions and restart the Smoke/No Smoke Plan under Condition 6.2.

7. **Particulate Matter (PM) Emissions.** Comply with the PM emissions limits for asphalt plants and diesel engines, as set out in Table D.

- 7.1. ***PM Emissions Monitoring for Diesel Engines.*** If the results of any Method 9 observation conducted under Condition 6.2 or Condition 6.3.c.(ii) is greater than the PM monitoring thresholds in Table D, the Permittee shall within six months of that Method 9 observation, either:
- a. take corrective actions and perform a Method 9 observation on the engine exhaust under load conditions comparable to those when the criteria were exceeded, to show that emissions are no longer greater than the visible emissions limit in Table D; or
  - b. except as exempted under Condition 7.3, conduct a PM source test following the requirements of Condition 22.
- 7.2. During each one-hour PM source test run under Condition 7.1.b, observe the engine exhaust for 60 minutes in accordance with Method 9 and calculate the highest 18-consecutive-minute average opacity measured during each one-hour source test run. Submit a copy of these observations with the source test report.
- 7.3. The PM source test requirements in Condition 7.1.b are waived for an engine if:
- a. a source test on that unit has shown compliance with the PM standard during the previous five-year period; or

- b. corrective action was taken to reduce visible emissions and two consecutive 18-minute Method 9 visible emissions observations conducted thereafter within a six-month period show visible emissions less than the PM monitoring thresholds in Table D.

**PM emissions MR&R requirements for Diesel Engines:**

<b>Monitor:</b>	See Conditions 7.1 - 7.3.
<b>Record:</b>	<ul style="list-style-type: none"> <li>• Keep records of the results of any source test and visible emissions observations conducted under Conditions 7.1 and 7.2.</li> </ul>
<b>Report:</b>	<ul style="list-style-type: none"> <li>• Notify the Department of any Method 9 observation results that are greater than the PM monitoring thresholds shown in Table D within 30 days of the end of the month in which the observations occurred. Include the dates, the engine(s) affected, and results when an observed 18-minute average opacity was greater than an applicable threshold in Table D.</li> <li>• Include the following with the semi-annual FOR required under Condition 5.3, for the period covered by the report:             <ul style="list-style-type: none"> <li>○ a summary of the results of any PM source test and visible emissions observations conducted under Condition 7.1 and 7.2; and</li> <li>○ copies of any visible emissions observation results greater than the PM monitoring thresholds shown in Table D, if they were not already submitted.</li> </ul> </li> <li>• Report in accordance with Condition 10:             <ul style="list-style-type: none"> <li>○ anytime the results of a PM source test exceed the PM emissions limit in Table D; and</li> <li>○ if the requirements under Condition 7.1.a or 7.1.b were not performed when required.</li> </ul> </li> </ul>

7.4. ***PM Emissions Monitoring for Asphalt Plant.*** Do not operate the asphalt plant at a production level greater than the maximum throughput measured during the most recent PM source test that showed compliance, except as provided under Condition 22.2. Conduct source tests in accordance with Condition 22 and the following:

- a. If a PM source test has not been approved by the Department for your facility within the last five years, conduct a PM source test within the first 30 operating days after receiving your letter of authorization.
- b. If the source has conducted a PM source test approved by the Department in the last five years, conduct a source test during the fifth year after that test or the first operation thereafter.
- c. Conduct a PM source test every five years.
  - (i) If results of any PM source test exceed 0.045 gr/dscf for plants constructed or modified on or before June 11, 1973 or 0.036 gr/dscf for plants constructed or modified after June 11, 1973, you must conduct another source test within one year of the date of the most recent PM source test.
  - (ii) If the plant does not operate in a calendar year, then the calendar year that the plant did not operate does not count toward the time required to conduct

another PM source test in Condition 7.4.c.(i).

- (iii) If the plant does not operate in a calendar year, the next source test due date is delayed by one calendar year.

**PM emissions MR&R requirements for Asphalt Plant:**

<b>Monitor:</b>	<ul style="list-style-type: none"> <li>• Conduct at least one 18-consecutive-minute set of EPA Method 9 readings during each one hour run of the PM source test.</li> </ul>
<b>Record:</b>	<ul style="list-style-type: none"> <li>• Record the following during each PM source test:                             <ul style="list-style-type: none"> <li>○ Average asphalt production rate in tons per hour;</li> <li>○ Method 9 readings (use <i>Form 5: Method 9 Visible Emissions Observations</i> form or equivalent);</li> <li>○ Baghouse exit temperature and pressure drop (if applicable);</li> <li>○ Wet scrubber pressure drop and water flow rate (if applicable).</li> </ul> </li> <li>• Keep a daily log of the following:                             <ul style="list-style-type: none"> <li>○ Daily total asphalt production;</li> <li>○ Peak hourly rate of production per day;</li> <li>○ Startup and shutdown times with the date for each operating day;</li> <li>○ Total hours operated per day; and</li> <li>○ Total number of operating hours operated since the last source test.</li> </ul> </li> <li>• If you have a baghouse, include the following in your daily log:                             <ul style="list-style-type: none"> <li>○ Pressure drop across baghouse at beginning and end of each production day; and</li> <li>○ Outlet temperature of baghouse at the beginning and end of each production day.</li> </ul> </li> <li>• If you have a wet scrubber, include the following in your daily log:                             <ul style="list-style-type: none"> <li>○ Pressure drop across the scrubber at beginning and end of each production day;</li> <li>○ Inlet and outlet temperatures of the scrubber at beginning and end of each production day; and</li> <li>○ Daily water flow rate of the scrubber.</li> </ul> </li> </ul>
<b>Report:</b>	<ul style="list-style-type: none"> <li>• Include records of all visible emissions monitoring, production, and pressure drop or flow rate with the source test report as required under Condition 22.9.</li> <li>• Include the following with the semi-annual FOR required under Condition 5.3, for the period covered by the report:                             <ul style="list-style-type: none"> <li>○ the daily production log; and</li> <li>○ a summary of baghouse or scrubber inspections including the information listed in Conditions 18.1 or 18.2.</li> </ul> </li> </ul>

- 8. Sulfur Compound (SO<sub>2</sub>) Emissions.** Comply with the SO<sub>2</sub> emissions limits for asphalt plants and diesel engines, as set out in Table D. This condition applies to fuel for all engines, including stationary and nonroad engines, and fuel used in asphalt burners.

**SO<sub>2</sub> emissions MR&R requirements for all Fuel-burning Equipment:**

<b>Monitor and Record:</b>	<ul style="list-style-type: none"> <li>• Keep fuel delivery receipts that specify fuel grade and amount.</li> <li>• If diesel delivery receipts do not show that the diesel is Ultra Low Sulfur Diesel (ULSD) or Low Sulfur Diesel (LSD) test delivered fuel for sulfur content, or get a certification statement or analysis from the supplier that shows fuel sulfur percent by weight.</li> </ul>
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	<ul style="list-style-type: none"> <li>• If a permitted facility uses fuel from a bulk supply/tank, identify the bulk supply/tank by name, and comply as otherwise set out in this section for all fuel supplied to the bulk tank for the reporting period.</li> <li>• For liquid fuel from a North Slope topping plant, obtain results of a monthly fuel analysis from the topping plant.</li> </ul>
<b>Report:</b>	<ul style="list-style-type: none"> <li>• Include the following with the semi-annual FOR required under Condition 5.3, for the period covered by the report: <ul style="list-style-type: none"> <li>○ If only ULSD or LSD was used for the entire reporting period, certify that only ULSD or LSD was consumed in fuel burning equipment.</li> <li>○ If fuels other than ULSD or LSD was used (e.g., used oil fuels), submit a list of those fuel deliveries with fuel grades, a certificate from the supplier verifying the sulfur content, or a fuel analysis showing sulfur content.</li> <li>○ If natural gas was used during the reporting period, submit a statement certified by the Responsible Official that natural gas was used for this time period.</li> <li>○ If highline power was used during the reporting period, submit a statement certified by the Responsible Official that highline power was used for this time period.</li> <li>○ Include a copy of the fuel analysis from a North Slope topping plant, if applicable.</li> <li>○ Report the fuel type, including its sulfur content, used for the asphalt burner.</li> </ul> </li> </ul>

**9. Pollution Control Equipment Breakdowns.**

<b>Record:</b>	<ul style="list-style-type: none"> <li>• Keep records of pollution control equipment breakdowns and corrective actions.</li> </ul>
<b>Report:</b>	<ul style="list-style-type: none"> <li>• Notify the Department within two days of a pollution control equipment breakdown as a Permit Deviation in accordance with Condition 10.</li> <li>• Include a summary of each breakdown in the FOR required under Condition 5.3.</li> </ul>

**10. Excess Emissions and Permit Deviations Reports.**

<b>Record:</b>	<ul style="list-style-type: none"> <li>• Keep records of excess emissions, permit deviations, and corrective actions.</li> </ul>
<b>Report:</b>	<ul style="list-style-type: none"> <li>• Report excess emissions that present a potential threat to human health or safety or that the owner, operator, or Permittee believes to be unavoidable as soon as possible.</li> <li>• Report unavoidable emergencies, malfunctions, or non-routine repairs that cause excess emissions within two working days after the event started or was discovered.</li> <li>• Report excess emissions for a site operated with co-located sources for any month in which the 12-month rolling actual emissions from combined sources exceeds 100 tons of a criteria air pollutant, within 30 days of the end of the month in which the exceedance was discovered.</li> <li>• Report all other excess emissions or permit deviations, including failure to monitor, within 30 days of the end of the month in which the incident occurred, or as part of the next routine operating report in Condition 5.3 for excess emissions that occurred during the period covered by the report, whichever is sooner.</li> <li>• Report using either the online form at <a href="http://dec.alaska.gov/applications/air/airtoolsweb">http://dec.alaska.gov/applications/air/airtoolsweb</a> or <i>Form 2: Excess Emissions and Permit Deviation Reporting Form</i> (or equivalent summary).</li> </ul>

	<ul style="list-style-type: none"> <li>• Include in each FOR required under Condition 5.3 a summary of the excess emissions and permit deviations that occurred during the reporting period by citing the dates of those reports, or include a copy of those Excess Emissions and Permit Deviations reports.</li> </ul>
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**11. Air Pollution Prohibited.**

<b>Record:</b>	<ul style="list-style-type: none"> <li>• Record the date, time, and nature of all emissions complaints received.</li> <li>• Record the name of the person(s) that complained, if known.</li> <li>• Record a summary of any investigations including reasons you do or do not believe the emissions have caused a violation.</li> <li>• Record any corrective actions taken or planned for complaints.</li> </ul>
<b>Report:</b>	<ul style="list-style-type: none"> <li>• Include in the FOR required under Condition 5.3 for each reporting period:             <ul style="list-style-type: none"> <li>○ Number of complaints received.</li> <li>○ Number of times you or the Department found corrective action necessary.</li> <li>○ Number of times action was taken on a complaint within 24 hours.</li> <li>○ Status of corrective actions found necessary that were not taken within 24 hours.</li> </ul> </li> </ul>

**12. Nonroad Engines.** Defined in 18 AAC 50.990(63)<sup>3</sup> and 40 C.F.R. 1068.30.

<b>Record:</b>	<p>Keep a log of the following items for each engine that meets the definition of nonroad engine under 40 C.F.R. 1068.30-Nonroad Engine-(1)(iii)<sup>1</sup> for at least five years:</p> <ul style="list-style-type: none"> <li>• Date and location of the engine each time it is relocated, including each time the engine is relocated to a different site at a building, structure, facility, or installation.</li> <li>• Make, model, serial number, and rated capacity of the engine.</li> </ul>
<b>Report:</b>	<ul style="list-style-type: none"> <li>• Include completed <i>Form 8: Nonroad Engine Location Log</i> (or an equivalent summary) in each FOR.</li> </ul>

**13. Stored Equipment.** If you store out of operation asphalt plants, rock crushers or nonroad engines at the same physical location as the emission units authorized under this permit, you must maintain a Stored Non-Operating Equipment Log for the site (*Form 10: Stored Non-Operating Equipment Log* or equivalent). Unless recorded in the Log and stored in a non-operable status, this equipment will be considered stationary emission units associated with this permit. Any engine stored at the site that meets the definition of nonroad engine under 40 C.F.R. 1068.30-Nonroad Engine-(1)(iii)<sup>1</sup>, is also to be recorded in the Nonroad Engine Location Log under Condition 12.

<b>Record:</b>	<p>Keep a log of the following items for at least five years:</p> <ul style="list-style-type: none"> <li>• All non-operating equipment stored on-site during the Reporting Period.</li> <li>• Any equipment moved to non-operating status during the Reporting Period.</li> <li>• Any equipment moved off-site during the reporting period, where it was relocated, if it is co-located with another Permitted source including the permit number, and if it was returned to service.</li> </ul>
<b>Report:</b>	<ul style="list-style-type: none"> <li>• Include completed <i>Form 9: Equipment Operated Report Form</i> (or an equivalent summary) with each FOR.</li> </ul>

<sup>3</sup> As of the date of permit issuance, the Department is in the process of adopting the nonroad definition from 40 C.F.R. 1068.30 into 18 AAC 50.990(63).

## GENERAL CONDITIONS

- 14. Change of Ownership.** If the ownership of the Asphalt Plant is changed, both the new and previous owners must complete a transfer of ownership form and receive authorization to operate from the Department before the plant is operated by the new owner. The Transfer of Ownership form is available from ADEC Air Permits Program staff or on the Department’s Permit Information website. The website address at the time of issuance of this permit is: <https://dec.alaska.gov/air/air-permit/info/>.
- 15. Fee Requirements.** Pay the Department all assessed permit fees. Fee rates are set out in 18 AAC 50.400-499.
- 16. Assessable Emissions.** For each period from July 1 through the following June 30, submit to the Department annual emission fees payment based on the stationary source’s assessable emissions, as determined by the Department under 18 AAC 50.410. The Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit. The quantity for which fees will be assessed is the lesser of the stationary source’s:
- 16.1. Potential to Emit (PTE), in tons per year (TPY); or
  - 16.2. projected annual rate of emissions, in TPY, based upon actual annual emissions for the most recent calendar year, or another 12-month period approved in writing by the Department.
- 17. Assessable Emissions Estimates.** No later than March 31 of each year, you may submit to the Department an estimate of the stationary source’s assessable emissions for the most recent calendar year.
- 17.1. When submitting assessable emissions estimates, include:
    - a. completed *Form 3: Emission Reporting and Emission Fee Estimate*, and
    - b. any of the following:
      - (i) *Appendix A: Assessable Emissions Calculation (MG3)*, or
      - (ii) the *MG3 Assessable Emissions Spreadsheet* on the Department’s general permit website<sup>4</sup>, or
      - (iii) equivalent information with assumptions and calculations used to estimate the assessable emissions in sufficient detail so the Department can verify the estimates.
- 18. Good Air Pollution Control Practice.** For all emissions units authorized by this permit, perform regular maintenance considering the manufacturer’s or the operator’s maintenance procedures.
- 18.1. If you operate an asphalt plant using a baghouse:
 

<b>Monitor:</b>	<ul style="list-style-type: none"> <li>• Operate the baghouse per the manufacturer’s recommended operating procedures;</li> <li>• At the end of each run, operate the baghouse fans until the baghouse has been purged of exhaust gases per the manufacturer’s recommendations;</li> </ul>
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<sup>4</sup> Worksheets to calculate MG3 and MG9 Assessable Emissions: <https://dec.alaska.gov/air/air-permit/general-permits/>

	<ul style="list-style-type: none"> <li>• Ensure the pressure drop across the baghouse and outlet temperature remain within the manufacturer’s recommendations or specifications;</li> <li>• Perform inspections of equipment and complete necessary maintenance prior to startup in a new location, after shutdown of more than five days, and every 30 days of operation at the same location;</li> <li>• Replace worn or damaged bags within 72 hours of discovery</li> </ul>
<b>Record:</b>	<ul style="list-style-type: none"> <li>• Keep records of any maintenance that would have a significant effect on emissions; the records may be kept in electronic format;</li> <li>• Keep a copy of either the manufacturer’s or the operator’s maintenance procedures on site.</li> <li>• Keep a record of the baghouse inspections showing the following; <ul style="list-style-type: none"> <li>○ Date of inspection and name of inspector;</li> <li>○ Number of worn or damaged bags detected;</li> <li>○ Number of bags replaced and date replaced;</li> <li>○ Number of worn or damaged seals/gaskets detected; and</li> <li>○ Number of seal/gaskets replaced and the date replaced.</li> </ul> </li> </ul>
<b>Report:</b>	<ul style="list-style-type: none"> <li>• Include with each FOR required under Condition 5.3 records of the baghouse inspections required under Condition 7.4.</li> </ul>

18.2. If you operate an asphalt plant using a wet scrubber:

<b>Monitor:</b>	<ul style="list-style-type: none"> <li>• Inspect every component of the scrubber before beginning operation each season and repair or replace any component that shows signs of deterioration;</li> <li>• Maintain pressure drop across the scrubber, water flow rate, inlet and outlet temperatures within limits recommended by the manufacturer</li> </ul>
<b>Record:</b>	<ul style="list-style-type: none"> <li>• Keep records of any maintenance that would have a significant effect on emissions; the records may be kept in electronic format;</li> <li>• Keep a copy of either the manufacturer’s or the operator’s maintenance procedures on site.</li> <li>• Keep a record of scrubber inspections showing the following; <ul style="list-style-type: none"> <li>○ Date of inspection and name of inspector;</li> <li>○ Number of components detected that are worn or damaged;</li> <li>○ Number of components replaced and date replaced.</li> </ul> </li> </ul>
<b>Report:</b>	<ul style="list-style-type: none"> <li>• Include with each FOR required under Condition 5.3 records of the wet scrubber inspections required under Condition 7.4.</li> </ul>

**19. Reasonable Precautions to Prevent Fugitive Dust.** A person who causes or permits bulk materials to be handled, transported, or stored, or who engages in an industrial activity or construction project shall take reasonable precautions to prevent the release of airborne PM and fugitive dust from aggregate piles, conveyors and elevators, loading locations, the rotary drum, screens, baghouse ash discharge, vehicle traffic within the stationary source boundaries and other sources of fugitive dust into the ambient air.

19.1. Follow the Fugitive Dust Control Plan (Appendix B) that you included with your minor general permit application or a revised version if submitted to or requested by the Department. A revised or site-specific Fugitive Dust Control Plan must be submitted with each relocation notice if the new location is within one mile of the nearest occupied structure (see Condition 2).

- 19.2. Reasonable precautions to prevent fugitive dust may include the following:
  - a. installation and use of hoods;
  - b. fans and dust collectors to enclose and vent dusty materials;
  - c. other covers and enclosures;
  - d. cleanup of loose material on work surfaces;
  - e. minimizing drop distances on the conveyor systems and lowering loader buckets to be in contact with the surface of the soil or ground before dumping;
  - f. application of water or dust suppressants;
  - g. stopping activity in windy conditions.; and
  - h. Measures to prevent carryout or trackout of dust or mud by trucks.

**20. Terms to Make the Permit Enforceable.**

- 20.1. Compliance with permit terms and conditions is considered to be in compliance with those requirements that are
  - a. included and specifically identified in the permit; or
  - b. determined in writing in the permit to be inapplicable.
- 20.2. Comply with each permit term and condition. Noncompliance with a permit term or condition constitutes a violation of AS 46.14, 18 AAC 50.345, and, except for those terms or conditions designated in the permit as not federally enforceable, the Clean Air Act, and is grounds for
  - a. an enforcement action; or
  - b. permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280.
- 20.3. It is not a defense in an enforcement action to claim that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with a permit term or condition.
- 20.4. Each permit term and condition is independent of the permit as a whole and remains valid regardless of a challenge to any other part of the permit.
- 20.5. The permit may be modified, reopened, revoked and reissued, or terminated for cause. A request by the Permittee for modification, revocation and reissuance, or termination or notification of planned changes or anticipated noncompliance does not stay any permit condition.
- 20.6. The permit does not convey any property rights of any sort, nor any exclusive privilege.
- 20.7. Allow the Department or an inspector authorized by the Department, upon presentation of credentials and at reasonable times with the consent of the owner or operator to

- a. Enter upon the premises where a source subject to the permit is located or where records required by the permit are kept;
- b. Have access to and copy any records required by the permit;
- c. Inspect any stationary source, equipment, practices, or operations regulated by or referenced in the permit; and
- d. Sample or monitor substances or parameters to assure compliance with the permit or other applicable requirements.

**21. Triennial Emission Inventory Reporting.** Every third year by April 30, the Permittee shall submit to the Department reports of actual emissions for the previous calendar year, by emissions unit, of CO, NH<sub>3</sub>, NO<sub>x</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, VOC and lead (Pb) and lead compounds, as follows:

- 21.1. For reporting under Condition 21, the Permittee shall report the annual emissions and the required data elements under Condition 21.3 every third year for the previous calendar year as scheduled by the EPA.<sup>5</sup>
- 21.2. For the purposes of reporting actual or assessable emissions required under Condition 21 and Condition 16, the Permittee shall use consistent pollutant-specific emission factors and calculation methods for all reporting requirements for the stationary source.
- 21.3. For each emissions unit and the stationary source, include in the report the required data elements<sup>6</sup> contained within the form included in the Emission Inventory Instructions available at the Department's AOS system on the Point Source Emission Inventory webpage at <http://dec.alaska.gov/Applications/Air/airtoolsweb/PointSourceEmissionInventory>.
- 21.4. Submit the report in accordance with the submission instructions on the Department's Standard Permit Conditions webpage at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-xv-and-xvi-submission-instructions/>.

**22. Source Testing Requirements.**

- 22.1. **General Requirements.** In addition to any source testing explicitly required by the permit, conduct source testing as requested by the Department to determine compliance with applicable permit requirements.
- 22.2. **Operating Conditions.** Unless otherwise specified by an applicable requirement or test method, conduct source testing
  - a. at a point or points that characterize the actual discharge into the ambient air; and
  - b. at the maximum rated burning or operating capacity of the emission unit or another rate determined by the Department to characterize the actual discharge into the ambient air.

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<sup>5</sup> The calendar years for which reports are required are based on the triennial reporting schedule in 40 C.F.R. 51.30(b)(1), which requires states to report emissions data to the EPA for inventory years 2014, 2017, 2020, 2023 and every 3rd year thereafter. Therefore, the Department requires Permittees to report emissions data for the same inventory years by April 30 of the following year (e.g., triennial emission inventory report for 2020 is due April 30, 2021, triennial emission inventory report for 2023 is due April 30, 2024, etc.).

<sup>6</sup> The required data elements to be reported to the EPA are outlined in 40 C.F.R. 51.15 and Tables 2a and 2b to Appendix A of 40 C.F.R. 51 Subpart A.

- 22.3. **Reference Test Methods.** Refer to the Technical Analysis Report for approved reference test methods and details.
- 22.4. **Excess Air Requirements.** Standard exhaust gas volumes must include only the volume of gases formed from the theoretical combustion of the fuel, plus the excess air volume normal for the specific emission unit type, corrected to standard conditions (dry gas at 68°F and absolute pressure of 760 mm of mercury).
- 22.5. **Test Exemption.** You are not required to comply with Conditions 22.6 – 22.9 when the exhaust is observed for visible emissions by Method 9 Plan or Smoke/No Smoke Plan (Conditions 6.1 through 7.1.a).
- 22.6. **Test Plans.** Before conducting any source tests, submit a plan to the Department. The plan must include the methods and procedures to be used for sampling, testing, and quality assurance, and must specify how the emission unit will operate during the test and how you will document that operation. Submit a complete plan within 60 days after receiving a request under Condition 7.1.b or Condition 22.1 and at least 30 days before the scheduled date of any test unless the Department agrees in writing to some other time period. Retesting may be done without resubmitting the plan.
- 22.7. You may request an extension to a source test deadline established by the Department. You may delay a source test beyond the original deadline only if the extension is approved in writing by the Department's appropriate division director or designee.
- 22.8. **Test Notification.** At least 10 days before conducting a source test, give the Department written notice of the date and the time the source test will begin.
- 22.9. **Test Reports.** Within 60 days after completing a source test, submit a copy of the results in the format set out in the *Source Test Report Outline*, adopted by reference in 18 AAC 50.030. Certify the results in the manner set out in Condition 5.2. If requested in writing by the Department, provide preliminary results in a shorter period of time specified by the Department.

**Appendix A: Assessable Emissions Calculation (MG3)**

Assessable Emissions differ from a source's Potential to Emit (PTE). PTE is used in calculating a source's permit applicability and classification, i.e., minor or major source. While PTE does not include fugitive particulate emissions, assessable emissions do. A source can be classified as a minor source, yet have emission fees based on a criteria pollutant in excess of 100 tons. Likewise, a major source can have a PTE in excess of 100 tpy of a criteria pollutant, yet pay emission fees for that pollutant at a rate far lower. Assessable Emissions use the same calculations as PTE, only operating hours are not based on a maximum potential of 3,650 hours (assumed) but instead are based on actual operation for a calendar year. For examples and steps on completing this form to assist in submission of Assessable Emissions, please see the information below.

Equation:

$$E = (EF \times (\text{asphalt produced or hours of operation in a given year} \times RC)) / \text{lbs per ton}$$

Abbreviations:	
tpy	tons per year
tph	tons per hour
EF	emission factor (AP-42)
RC	rated capacity (hp for diesel engines)
lbs	pounds
E	emissions
ULSD	Ultra-low sulfur diesel

Report using *Form 3: Emission Reporting and Emission Fee Estimate* total emissions for each pollutant in a calendar year. Each emissions unit associated with the stationary source will need a separate calculation using equations provided, where rated capacity is the horsepower for diesel engines.

Emission factors are pollutant/emission unit specific. Fuel assumes use of Ultra-Low Sulfur Diesel (ULSD); please, contact the Department for assistance if you used alternative fuels. Please, see the worksheet on the next page for emission factors and further assistance.

<b>Asphalt Plants</b>	<b>CO</b>	<b>NO<sub>x</sub></b>	<b>SO<sub>2</sub></b>	<b>VOC</b>	<b>PM-10<sup>1</sup></b>	<b>PM-10<sup>2</sup></b>
Batch Mix Asphalt Plant	0.4	0.12	0.088	0.0082	0.027	0.14
Drum Mix Asphalt Plant	0.13	0.055	0.011	0.032	0.023	0.04
Asphalt plant emission factors are given in lbs of pollutant per ton of asphalt produced.						

<sup>1</sup> PM-10 EF for use with a baghouse

<sup>2</sup> PM-10 EF for use with a wet-scrubber

<b>Diesel Engines</b>	<b>CO</b>	<b>NO<sub>x</sub></b>	<b>SO<sub>2</sub><sup>3</sup></b>	<b>VOC</b>	<b>PM-10</b>
Greater than 600hp	0.0055	0.024	1.2x10 <sup>-5</sup>	0.000705	0.0007
Up to 600hp	0.00668	0.031	1.2x10 <sup>-5</sup>	0.0000247	0.0022
Diesel engine emission factors are given in lbs of pollutant per horsepower-hour.					

<sup>3</sup> SO<sub>2</sub> EF for use with ULSD

Asphalt Plant Worksheet:  $E = (EF \times \text{tons of asphalt produced}) / 2000$

<b>CO</b>	<b>NO<sub>x</sub></b>	<b>SO<sub>2</sub></b>	<b>VOC</b>	<b>PM-10</b>

Diesel Engine Worksheet:  $E = (EF \times \text{hours of operation} \times RC) / 2000$

<b>CO</b>	<b>NO<sub>x</sub></b>	<b>SO<sub>2</sub></b>	<b>VOC</b>	<b>PM-10</b>

Total Emissions: add all rows above for listed emission units.

<b>CO</b>	<b>NO<sub>x</sub></b>	<b>SO<sub>2</sub></b>	<b>VOC</b>	<b>PM-10</b>

Assessable Emissions: Enter these values on *Form 3: Emission Reporting and Emission Fee Estimate*, and submit as required under Condition 17.

<b>CO</b>	<b>NO<sub>x</sub></b>	<b>SO<sub>2</sub></b>	<b>VOC</b>	<b>PM-10</b>

## **Appendix B: Fugitive Dust Control Plan Guidelines**

The Fugitive Dust Control Plan (Plan) has the purpose to control the fugitive dust emissions from asphalt plant and crusher related activities. The Plan is required for all MG3 and MG9 permit holders (Condition 19 in both permits), in order to ensure that reasonable precautions to prevent fugitive dust are taken.

A sample plan is on the following page in Appendix B. This plan may be filled out and used for any MG3 or MG9 source. You are not required to use the sample form, but similar information contained in the sample form should be included in your plan. If you already have a plan developed or you wish to develop your own plan, the following items should be addressed:

- Points capable of producing fugitive emissions;
- Control of fugitive dust sources, such as:
  - Water application;
  - Dust suppressants;
  - Wind barriers;
  - Hoods, covers, or enclosures;
  - Cleanup of loose materials;
  - Minimizing drop distances and lowering loader buckets before dumping;
  - Fans;
  - Dust collectors;
- Methods to prevent trackout or carryout, such as:
  - Grizzlies or grates;
  - Gravel pads;
  - Paved surfaces;
  - Wheel washers;
  - Truck washing.

**Appendix B: Fugitive Dust Control Plan**

Please note, it is the responsibility of the Permittee to ensure that no part of their fugitive dust control plan violates any local, state, or federal law.

**Section 1 – General Information**

<b>1-A Facility Information</b>	
Company Name:	
Plant Name:	
Permit No.:	
<b>1-B Contacts</b>	
Report the names, address, and phone numbers of persons and owners or operators responsible for the implementation of the Dust Control Plan and responsible for the dust generating operation and dust control applications.	
<i>Responsible Official</i> (authorized under 18 AAC 50.990(93))	
Name:	
Phone Number:	
<i>On-site Manager/Operator or Point of Contact</i> (if different from above)	
Name:	
Phone Number:	
<b>1-C Recordkeeping and Reporting</b>	
Keep copy of Fugitive Dust Control Plan on-site at all times. Keep records of deviations from dust plan, reasons for the deviation, and corrective actions taken for at least five years.	

**Section 2 – Fugitive Emission Points**

<b>2-A Fugitive Emission Points</b>
Identify the relative locations of actual and potential sources of fugitive dust emissions.
<input type="checkbox"/> Bulk material handling and storage areas. <input type="checkbox"/> Paved and unpaved access roads, haul roads, traffic areas, and equipment storage yards. <input type="checkbox"/> Exit points where carryout and trackout onto paved public roads may occur. <input type="checkbox"/> Water supply locations if water application will be used for controlling visible dust emissions. <input type="checkbox"/> Rock crushing operations. <input type="checkbox"/> Screening <input type="checkbox"/> Conveyors <input type="checkbox"/> Fines Screening <input type="checkbox"/> Asphalt plant operations <input type="checkbox"/> Screening <input type="checkbox"/> Conveyors <input type="checkbox"/> Baghouse Catch <input type="checkbox"/> Drum Mixer Discharge <input type="checkbox"/> Hot mix storage silo receiving point
<b>2-B Comments – Fugitive Emission Points</b>

**Section 3 – Control of Fugitive Dust Sources**

**3-A Control of Fugitive Dust Sources**

Check any boxes that apply. Checked boxes represent methods that will be used *as needed*.

*Active Operations*

- Water will be applied to dry areas during leveling, grading, trenching, and earthmoving activities.
- Wind barriers will be constructed and maintained, and water or dust suppressants will be applied to the disturbed surface areas.

*Inactive Operations, including after work hours, weekends, and holidays*

- Not applicable for this project (Please explain why in Section 3-C).
- Water or dust suppressants will be applied on disturbed surface areas to form a visible crust, and vehicle access will be restricted to maintain the visible crust.

*Sites Inactive for Seven or More Days*

- Not applicable for this project (Please explain why in Section 3-C).
- Vehicle access will be restricted and water/dust suppressants will be applied at all un-vegetated areas.
- Vegetation will be established on all previously disturbed areas.
- Gravel will be applied and maintained at all previously disturbed areas.
- Previously disturbed areas will be paved.

*Unpaved Access and Haul Roads, Traffic and Equipment Storage Areas*

- Not applicable for this project (Please explain why in Section 3-C).
- Apply water or dust suppressants to unpaved haul and access roads.
- Post speed limit signs of not more than 15 mph at each entrance, and again every 500 ft.
- Water or dust suppressants will be applied to vehicle traffic and equipment storage areas.

*Wind Events*

- Water application equipment will apply water to control fugitive dust during wind events, unless unsafe to do so. Outdoor construction activities that disturb the soil will cease whenever visible dust emissions cannot be effectively controlled.

**3-B Bulk Materials**

Check any boxes that apply. Checked boxes represent methods that will be used *as needed*.

*Outdoor Handling of Bulk Materials*

- Water or dust suppressants will be applied when handling bulk materials.
- Wind barriers with less than 50 percent porosity will be installed and maintained, and water or dust suppressants will be applied.

*Outdoor Storage of Bulk Materials*

- Water or dust suppressants will be applied to storage piles.
- Storage piles will be covered with tarps, plastic, or other suitable material and anchored in such a manner that prevents the cover from being removed by wind actions.
- Wind barriers with less than 50 percent porosity will be installed and maintained around the storage piles and water or dust suppressants will be applied.
- A three-sided structure (< 50% porosity) will be used that is at least as high as the storage piles.

*On-Site Transporting of Bulk Materials*

- Vehicle speed will be limited on the work site.
- All haul trucks will be loaded such that the freeboard is not less than six inches when transported across any paved public access road.
- A sufficient amount of water will be applied to the top of the load to limit visible dust emissions.
- Haul trucks will be covered with a tarp or other suitable cover.

**Section 3 – Control of Fugitive Dust Sources (cont.)**

**3-B Bulk Materials - continued**

*Off-Site Transporting of Bulk Materials*

- No bulk materials will be transported to or from the project site.
- Materials for transport will be wetted as needed.
- Covers will be used, as needed. Some or all of the following will be used as necessary:
  - The interior of emptied truck cargo compartments will be cleaned or covered before leaving the site.
  - Spillage or loss of bulk materials from holes or other openings in the cargo compartment’s floor, sides, and tailgates will be prevented.
  - Haul trucks will be covered with a tarp or other suitable cover or will be loaded such that the freeboard is not less than six inches when transported on any paved public access road to or from the project site.

*Outdoor Transport using a Chute or Conveyor*

- No chutes or conveyors will be used.
- Chute or conveyor will be fully enclosed.
- Water spray equipment will be used to sufficiently wet the materials.
- Transported materials will be washed or screened to remove fines (PM-10 or smaller).

**3-C Comments – Control of Fugitive Dust Sources**

**Section 4 – Dust Control Methods**

**4-A Water Application**

Complete this section if water application will be used as a control method for limiting visible dust emissions and stabilizing surface areas. Check and answer everything that applies. Checked boxes represent methods that will be used *as needed*.

*Water Application Equipment:*

- Sprinklers:  
Describe the activities that will utilize sprinklers: \_\_\_\_\_
- Water Truck,  Water Trailer,  Water Wagon,  Other: \_\_\_\_\_  
Describe the activities that will utilize this equipment: \_\_\_\_\_

Water application equipment is available to operate after normal working hours, on weekends, and holiday.  
After-hours contact: \_\_\_\_\_ Phone number: \_\_\_\_\_

*Water Supply (as needed):*

- Fire hydrants. Obtain necessary approval to use specific hydrants.
- Storage tanks      Number and capacity: \_\_\_\_\_
- Wells      Number and flow rate: \_\_\_\_\_
- Canal, River, Pond, Lake, etc.      Describe: \_\_\_\_\_  
Approval granted by the owner or public agency to use their water source for this project.  
Owner or Agency: \_\_\_\_\_  
Contact: \_\_\_\_\_ Phone number: \_\_\_\_\_
- Other: \_\_\_\_\_

**Section 4 – Dust Control Methods (cont.)**

**4-B Dust Suppressant Products**

Suppressant materials include, but are not limited to: hygroscopic suppressants (road salts), adhesives, petroleum emulsions, polymer emulsions, and bituminous material (road oils).  
 Copy this section if more than one dust suppressant product will be used.

Not applicable. Only water application will be the control method used.

Applicable.  
 Product Name: \_\_\_\_\_  
 Application Equipment: \_\_\_\_\_  
 Number of Application Equipment Available: \_\_\_\_\_

Attach each of the following information that fully describes this product. Use the checklist below to make sure all information is submitted with this plan.

- Product Specifications (MSDS, Product Safety Data Sheet, etc.).
- Manufacturer’s Usage Instructions (method, frequency, and intensity of application).
- Environmental impacts and approvals or certifications related to the appropriate and safe use for ground application.

**4-C Other Dust Control Methods**

Check the other types of dust control methods that will be implemented at the construction site.

- Physical barriers for restricting unauthorized vehicle access:
  - Fences     Gates     Posts     Berms     Concrete Barriers
  - Other: \_\_\_\_\_
- Wind barriers – Describe: \_\_\_\_\_
- Posted speed limit signs meet state and Federal Department of Transportation standards.
  - Posted at 15 miles per hour,  Posted at \_\_\_\_\_ miles per hour (less than 15 mph)
- Re-establish vegetation for temporarily stabilizing previously disturbed surfaces.  
 Explain: \_\_\_\_\_
- Apply and maintain gravel:
  - On haul roads     On access roads     At equipment storage yards
  - At vehicle traffic areas     For temporarily stabilizing previously disturbed areas.
 Explain: \_\_\_\_\_
- Apply pavement – Explain: \_\_\_\_\_
- Other: \_\_\_\_\_

**4-D Comments – Dust Control Methods**

**Section 5 – Carryout and Trackout**

<b>5-A Treatments for Preventing Trackout</b>
Trackout is any material that adheres to vehicle tires and is deposited onto a paved public road or the paved shoulder of a paved public road. Check one or a combination that will apply.
<input type="checkbox"/> <i>Grizzly</i> : Rails, pipes, or grates used to dislodge debris off of vehicles before exiting the site. Extends from the intersection with the paved public road surface for the full width of the unpaved exit surface for the distance of at least 25 feet. Describe: _____
<input type="checkbox"/> <i>Gravel Pad</i> : A layer of washed gravel at least one inch or larger in diameter, three inches deep, and extends from the intersection with the public paved road surface for the full width of the unpaved exit surface for a distance of at least 50 feet. Describe: _____
<input type="checkbox"/> <i>Paved Surface</i> : Extends from the intersection with the paved public road surface for the full width of the unpaved access road for at least 100 feet to allow mud and dirt to drop off of vehicles before exiting the site. Describe: _____ Mud and dirt deposits accumulating on paved interior roads will be removed with sufficient frequency, but not less frequently than once per workday. Clean-up Frequency: _____
<input type="checkbox"/> <i>Wheel Washer</i> : Uses water to dislodge debris from tires and vehicle undercarriage. Describe: _____
<input type="checkbox"/> <i>Other</i> : _____
<b>5-B Treatments for Preventing Carryout</b>
Carryout occurs when materials from emptied or loaded haul trucks, vehicles, or trailers falls onto a paved public road or paved shoulder of a paved public road. Check all methods that apply.
<input type="checkbox"/> No haul trucks will be routinely entering or leaving the project site.
<i>Emptied Haul Trucks</i> : <input type="checkbox"/> Interior cargo compartments will be cleaned before leaving the project site. <input type="checkbox"/> Cargo compartment will be covered with a tarp or suitable cover before leaving the project site. <i>Loaded Haul Trucks</i> : Spillage or loss of materials from holes or other opening in the cargo compartment will be prevented when material is transported onto any paved public access road. <input type="checkbox"/> Haul trucks will be loaded such that the freeboard is not less than six inches with water applied to the top of the load before leaving the project site. <input type="checkbox"/> Cargo compartment and load will be covered with a tarp or suitable cover before leaving the project site. <input type="checkbox"/> Other: _____
<b>5-C Cleaning up Carryout and Trackout</b>
Clean up Method: Check the method(s) below that will be used for cleaning carryout and trackout.
<input type="checkbox"/> Manually sweeping and picking up. <input type="checkbox"/> Mechanical sweeping with a rotary brush or broom accompanied or preceded by water. Describe the types of equipment that will be used: _____
<input type="checkbox"/> Operating a PM10-efficient street sweeper. Make and Model: _____
<input type="checkbox"/> Flushing with water – allowed if: <ul style="list-style-type: none"> <li>• No curbs or gutters are present.</li> <li>• Using water will not result as a source of trackout and carryout.</li> <li>• Using water will not result in adverse impacts on storm water drainage systems.</li> <li>• Using water will not violate any National Pollutant Discharge Elimination System permit program or Alaska Department of Environmental Conservation, Division of Water Permit.</li> </ul>
<b>5-D Comments - Carryout and Trackout</b>

**Form 1: Relocation Notification (Application Addendum)**

Report any facility relocation according to the schedule of Condition 2.

**Facility Information:**

Permittee Name: \_\_\_\_\_ Permit No.: AQ \_\_\_\_\_

Facility Name: \_\_\_\_\_

Contact Person: \_\_\_\_\_ Telephone: \_\_\_\_\_

Make & Model of the Equipment/Stationary Source to be relocated: \_\_\_\_\_

*Attach a complete list of equipment to be operated at the new location.*

Relocation Type: Pre-Approved Location (Condition 2.1)

New Location (Condition 2.2)

Unexpected Breakdown or Repair (Condition 2.3)

Location name as recorded in Table B: \_\_\_\_\_

**Estimated Operating Dates:**

Estimated start-up date: \_\_\_\_\_ Estimated shut-down date: \_\_\_\_\_

**Location Information:**

New Plant Location (street address, milepost number, etc. – Include site maps):

\_\_\_\_\_  
\_\_\_\_\_

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ (specify to at least four decimal degrees)

Distance from Plant boundary to nearest inhabited structure: \_\_\_\_\_ ft.

Nearest inhabited structure(s) are on (check one):  flat terrain  elevated terrain

If this distance is within 2,000 ft. (for rock crushers) or 1 mile (for asphalt plants), include with this addendum a dust control plan that is specific to this location and is adequate to prevent violations of Air Pollution Prohibited (Condition 11 in both permits).

If the plant is to be located in a city or borough with zoning restrictions, please attach the location or siting approval documents from that city or borough to this form.

**Comments:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**Certification:**

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Phone Number: \_\_\_\_\_

*Submit Report using the electronic methods outlined in Condition 5.1 or by mail to Compliance Technician, ADEC Air Permits Program, 610 University Avenue, Fairbanks, AK 99709-3643.*

**Form 2: Excess Emissions and Permit Deviation Reporting Form**

\_\_\_\_\_  
**Stationary Source Name**

\_\_\_\_\_  
**Air Quality Permit Number.**

\_\_\_\_\_  
**Company Name**

**When did you discover the Excess Emissions/Permit Deviation?**

Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Time: \_\_\_\_ : \_\_\_\_

**When did the event/deviation occur?**

Begin: Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Time: \_\_\_\_ : \_\_\_\_ (please use 24-hr clock)

End: Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Time: \_\_\_\_ : \_\_\_\_ (please use 24-hr clock)

**What was the duration of the event/deviation?** \_\_\_\_ : \_\_\_\_ (hrs:min) or \_\_\_\_ days

(total # of hrs, min, or days, if intermittent then include only the duration of the actual emissions/deviation)

**Reason for Notification** (Please check only 1 box and go to the corresponding section.):

Excess Emissions - Complete Section 1 and Certify

Note: All “excess emissions” are also “permit deviations.” However, use only Section 1 for events that involve excess emissions.

Deviation from Permit Conditions - Complete Section 2 and Certify

Note: Use only Section 2 for permit deviations that do not involve excess emissions.

Deviation from COBC<sup>7</sup>, CO<sup>8</sup>, or Settlement Agreement - Complete Section 2 and Certify

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<sup>7</sup> Compliance Order By Consent

<sup>8</sup> Compliance Order

**Section 1. Excess Emissions**

(a) **Was the exceedance**  Intermittent or  Continuous

(b) **Cause of Event** (Check one that applies. Complete a separate form for each event, as applicable.):

- Start Up/Shut Down
- Control Equipment Failure
- Bad fuel/coal/gas
- Other \_\_\_\_\_
- Natural Cause (weather/earthquake/flood)
- Scheduled Maintenance/Equipment Adjustments
- Upset Condition

(c) **Description**

Describe briefly what happened and the cause. Include the parameters/operating conditions exceeded, limits, monitoring data and exceedance. Attach supporting information if necessary.

(d) **Emissions Units (EU) Involved:**

Identify the emissions units involved in the event, using the same identification number and name as in the permit. Identify each emission standard potentially exceeded during the event and the exceedance.

EU ID	EU Name	Permit Condition Exceeded/Limit/Potential Exceedance

(e) **Type of Incident:** (Please check all that apply and provide the value requested, if any):

Opacity \_\_\_\_\_%

Venting \_\_\_\_\_(gas/scf)

Control Equipment Down

Fugitive Emissions

Emission Limit Exceeded

Marine Vessel Opacity

Flaring

Other: \_\_\_\_\_

(f) **Corrective Actions:**

Describe actions taken to restore the system to normal operation and to minimize or eliminate chances of a recurrence. Attach supporting information if necessary.

(g) **Unavoidable Emissions:**

Do you intend to assert that these excess emissions were unavoidable?  YES  NO

Do you intend to assert the affirmative defense of 18 AAC 50.235?  YES  NO

**Certify Report (go to end of form)**

**Section 2. Permit Deviations**

(a) **Permit Deviation Type:** (Check all boxes that apply per event. Complete a separate form for each event, as applicable.)

- Emissions Unit-Specific Requirements
- Stationary Source-Wide Specific Requirements
- Monitoring/Recordkeeping/Reporting Requirements
- General Source Test Requirements
- Compliance Certification Requirements
- Standard/Generally Applicable Requirements
- Insignificant Emissions Unit Requirements
- Other: \_\_\_\_\_

(b) **Emissions Units (EU) Involved:**

Identify the emissions units involved in the event, using the same identification number and name as in the permit. List the corresponding permit condition and the deviation.

EU ID	EU Name	Permit Condition /Potential Deviation

(c) **Description of Potential Deviation:**

Describe briefly what happened and the cause. Include the parameters/operating conditions and the potential deviation. Attach supporting information if necessary.

**(d) Corrective Actions:**

Describe actions taken to correct the deviation or potential deviation and to prevent future recurrence. Attach supporting information if necessary.

**Certification:**

**Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.**

Printed Name: \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_ Phone number \_\_\_\_\_

***NOTE:** This document must be certified in accordance with 18 AAC 50.345(j). Read and sign the certification in the bottom of the form above. (See Condition 5.2)*

Submit this report in accordance with the submission instructions on the Department's Standard Permit Conditions web page at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-iii-and-iv-submission-instructions/>.

*If submitted online, report must be submitted by an authorized E-signer for the stationary source (according to Condition 5.2).*

**Form 3: Emission Reporting and Emission Fee Estimate**

When reporting assessable emissions under Conditions 17, submit the following information no later than March 31 of each year in accordance with the submission instructions outlined in Condition 5.1.

***NOTE:** This document must be certified in accordance with 18 AAC 50.345(j). Read and sign the certification in the bottom of the form above. (See Condition 5.2). If submitted online, report must be submitted by an authorized E-signer for the stationary source (according to Condition 5.2).*

Permittee Name: \_\_\_\_\_

Stationary Source Name: \_\_\_\_\_

Permit Number: \_\_\_\_\_ Date: \_\_\_\_\_

Emission Fee Estimate for : \_\_\_\_\_ ( State fiscal year)

**Table 1 – Total Emissions and Assessable Emission Fee Estimate**

<b>Pollutant</b>	<b>Asphalt Plant</b>	<b>Stationary Diesel Generators</b>	<b>Assessable Emissions</b>
NO <sub>x</sub>			
CO			
SO <sub>2</sub>			
PM-10			
VOC			

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

**Form 4: Minor General Permit (MG3) – Facility Operating Report Form**

**Facility Information**

Permittee Name: \_\_\_\_\_ Permit No.: AQ \_\_\_\_\_

Facility Name: \_\_\_\_\_

Reporting Period:  11/1/\_\_\_\_ to 3/31/\_\_\_\_  4/1/\_\_\_\_ to 10/31/\_\_\_\_

Did this plant operate during this reporting period?

Yes (please complete form)  No (complete the “Certification” section only)

**Certification (Condition 5.2)**

Certification Statement Signed by a Responsible Official (at end of form)

**Co-located Equipment (Condition 1.5)**

Was this Facility co-located with an additional asphalt plant or rock crusher:  Yes  No

If yes, attach the monthly and 12 Month rolling totals of criteria emissions for both facilities.

Permit Numbers for co-located Facilities \_\_\_\_\_

\_\_\_\_\_

**Relocation Reporting Requirements (Condition 2)**

Would the Permittee like to add any new pre-approved locations to Table B since the previous FOR?

Yes  No

If yes, for each new location attach completed *Form 1: Relocation Notification* or equivalent form with maps.

**Equipment Operated (Condition 4)**

Was new equipment added or existing equipment removed?  Yes  No.

Was any part of this facility rented or leased?  Yes  No

*Form 9: Equipment Operated Report Form* or equivalent attached for equipment operated

*Form 11: Rental Equipment Notification* or equivalent attached for equipment rentals.

**Visible Emissions - Asphalt Plant (Condition 6.1)**

Emissions Points observed: \_\_\_\_\_ (First point – baghouse or scrubber)

\_\_\_\_\_ (Second point – please describe)

Method 9 Observations Summary:

Number of Observations	
Highest 6-consecutive-minute Average	
Number of Observations >20%	

All Method 9 Observation forms attached

Visible Emission training certificates for all observers attached

Excess Emissions/Permit Deviation Forms attached for failure to monitor or for observations of six-minute average opacity observed as greater than 20%

**Visible Emissions – Diesel Engines (Condition 6.2)**

Method used:  Smoke/No Smoke Plan  Method 9  Both

Smoke/No Smoke Plan Summary:

Number of Observations	
Number of Days Visible Emissions Observed	

- Complete Smoke/No Smoke Log attached
- Summary of Smoke/No Smoke corrective actions attached

Method 9 Observations Summary:

Emissions Unit	Dates of Observations	Highest 6-consecutive-minute Average	Highest 18-consecutive-minute Average	Number of Observations >20%

- All Method 9 Observation forms attached (**from Conditions 6.2 through 7.3**)
- Visible Emission training certificates for all observers attached
- Excess Emissions/Permit Deviation Forms attached for failure to monitor or for observations of six-minute average opacity observed as greater than 20%
- 

**Particulate Matter (PM) Emissions**

***For Diesel Engines (Condition 7)***

Was PM monitoring triggered? (See thresholds in Table D.)  Yes  No

If yes, is PM source test waived? :  Yes  No.

If yes, reason for waiver:

Condition 7.3.a

Date of most recent PM source test: \_\_\_\_\_ Result of source test: \_\_\_\_\_ grains/dscf

Condition 7.3.b

Summary of Method 9 Observations conducted within a six-month period after corrective action:

Emissions Unit	Dates of Observations	Highest 6-consecutive-minute Average	Highest 18-consecutive-minute Average	Number of Observations >20%

- Method 9 Observation forms attached (copies of any visible emissions observation results greater than the PM monitoring thresholds shown in Table D)

If PM source test is not waived:

Date of PM source test: \_\_\_\_\_ Result of source test: \_\_\_\_\_ grains/dscf

Excess Emissions/Permit Deviation Forms attached for failure to monitor or for PM source test results exceeding 0.05 gr/dscf averaged over three hours.

---

**For Asphalt Plant (Condition 7.4)**

Date of most recent PM source test: \_\_\_\_\_ Result of source test: \_\_\_\_\_ grains/dscf

Control Equipment Used:  Baghouse  Scrubber

Summary of baghouse inspections attached, if applicable (Conditions 7.4 & 18.1).

Summary of scrubber inspections attached, if applicable (Conditions 7.4 & 18.2).

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**Sulfur Compound Emissions (Conditions 1.4 and 8)**

Was ULSD or LSD the ONLY fuel used for the entire reporting period?

Yes, this statement is certified by Responsible Official at the end of this form.

No, list of diesel deliveries and fuel analysis or certification from supplier showing fuel sulfur content attached.

Highline power used. Statement certified by Responsible Official attached.

Natural gas used. Statement certified by Responsible Official attached.

North Slope topping plant fuel used. If checked, attach a copy of fuel analysis.

Asphalt Plant fuel type used (Must be filled out to be considered complete): \_\_\_\_\_

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**Pollution Control Equipment Breakdowns (Condition 9)**

Were there any control equipment breakdowns during this reporting period?  Yes  No

If Yes,  Permit Deviation forms attached

Summary of breakdowns attached

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**Excess Emissions and Permit Deviations (EE/PD) (Condition 10)**

Were there any EE/PDs during this reporting period?  Yes  No

If Yes,  Summary of EE/PD reports sent to DEC during operating period attached

*Please Note: Any EE/PD forms not previously sent to DEC should also be attached and included in the summary.*

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**Complaint Summary (Condition 11)**

Did you receive any public complaints about emissions during this reporting period?  Yes  No

If Yes,  Complaint summary attached.

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**Nonroad Engines (Conditions 1.3 and 12)**

Are there engines that meet the definition of nonroad engine under 40 C.F.R. 1068.30-Nonroad Engine-(1)(iii) at this facility?

Yes, Nonroad Engine Location Log attached.  No.

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**Source Testing (Condition 22)**

PM source test conducted during this reporting period?  Yes, on date: \_\_\_\_\_  No.

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**Certification (Condition 5.2)**

*Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.*

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Phone Number: \_\_\_\_\_

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*Submit completed report according to Conditions 5.1 and 5.3.*

## Form 5: Method 9 Visible Emissions Observations

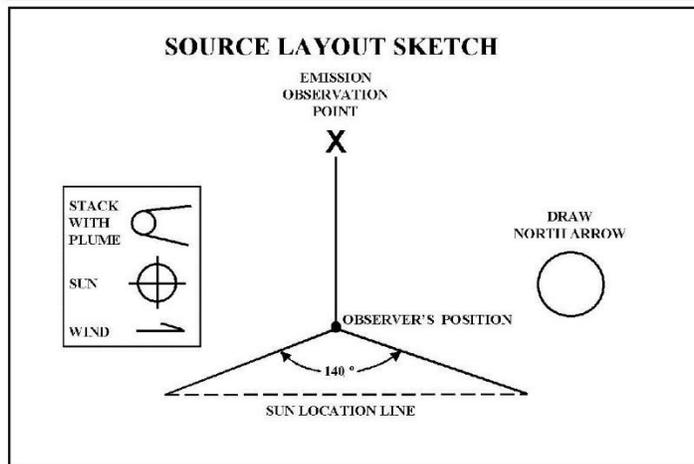
This form is designed to be used in conjunction with EPA Method 9, “Visual Determination of the Opacity of Emissions from Stationary Sources.” Temporal changes in emission color, plume water droplet content, background color, sky conditions, observer position, etc. should be noted in the comments section adjacent to each minute of readings. Any information not dealt with elsewhere on the form should be noted under additional information. Following are brief descriptions of the type of information that needs to be entered on the form: for a more detailed discussion of each part of the form, refer to “Instructions for Use of Visible Emission Observation Form.”

- Source Name: full company name, parent company or division or subsidiary information, if necessary.
  - Address: street (not mailing or home office) address of facility where VE observation is being made.
  - Phone (Key Contact): number for appropriate contact.
  - Source ID Number: number from NEDS, agency file, etc.
  - Process Equipment, Operating Mode: brief description of process equipment (include type of facility) and operating rate, % capacity, and/or mode (e.g., charging, tapping, shutdown).
  - Control Equipment, Operating Mode: specify type of control device(s) and % utilization, control efficiency.
  - Describe Emission Point: for identification purposes, stack or emission point appearance, location, and geometry; and whether emissions are confined (have a specifically designed outlet) or unconfined (fugitive).
  - Height Above Ground Level: stack or emission point height relative to ground level; can use engineering drawings, Abney level, or clinometer.
  - Height Relative to Observer: indicate height of emission point relative to the observation point.
  - Distance from Observer: distance to emission point; can use rangefinder or map.
  - Direction from Observer: direction plume is traveling from observer.
  - Describe Emissions and Color: include physical characteristics, plume behavior (e.g., looping, lacy, condensing, fumigating, secondary particle formation, distance plume visible, etc.), and color of emissions (gray, brown, white, red, black, etc.). Note color changes in comments section.
  - Visible Water Vapor Present? check “yes” if visible water vapor is present.
  - If Present, is Plume...: check “attached” if water droplet plume forms prior to exiting stack, and “detached” if water droplet plume forms after exiting stack.
  - Point in Plume at Which Opacity was Determined: describe physical location in plume where readings were made (e.g., 1 ft above stack exit or 10 ft. after dissipation of water plume).
  - Describe Plume Background: object plume is read against, include texture and atmospheric conditions (e.g., hazy).
  - Background Color: sky blue, gray-white, new leaf green, etc.
  - Sky Conditions: indicate cloud cover by percentage or by description (clear, scattered, broken, overcast).
  - Wind Speed: record wind speed; can use Beaufort wind scale or hand-held anemometer to estimate.
  - Wind Direction From: direction from which wind is blowing; can use compass to estimate to eight points.
  - Ambient Temperature: in degrees Fahrenheit or Celsius.  
Wet Bulb Temperature: can be measured using a sling psychrometer  
RH Percent: relative humidity measured using a sling psychrometer; use local US Weather Bureau measurements only if nearby.
  - Source Layout Sketch: include wind direction, sun position, associated stacks, roads, and other landmarks to fully identify location of emission point and observer position.  
Draw North Arrow: to determine, point line of sight in direction of emission point, place compass beside circle, and draw in arrow parallel to compass needle.  
Sun’s Location: point line of sight in direction of emission point, move pen upright along sun location line, mark location of sun when pen’s shadow crosses the observer’s position.
  - Observation Date: date observations conducted.
  - Start Time, End Time: beginning and end times of observation period (e.g., 1635 or 4:35 p.m.).
  - Data Set: percent opacity to nearest 5%; enter from left to right starting in left column. Use a second (third, etc.) form, if readings continue beyond 30 minutes. Use dash (-) for readings not made; explain in adjacent comments section.  
Comments: note changing observation conditions, plume characteristics, and/or reasons for missed readings.  
Range of Opacity: note highest and lowest opacity number.
  - Observer’s Name: print in full.  
Observer’s Signature, Date: sign and date after performing VE observation.
  - Organization: observer’s employer.
- Certified By, Date: name of “smoke school” certifying observer and date of most recent certification.

### VISIBLE EMISSION OBSERVATION FORM

Company Name		
Location		
City	State	Zip
Process Equipment		Operating Mode
Control Equipment		Operating Mode
Describe Emission Point		
Height of Emission Point	Height Relative to Observer Start                      End	
Distance to Emission Point	Direction to Emission Point Start                      End	
Vertical Angle to Observation Pt. Start                      End	Direction to Observation Point Start                      End	
Describe Emissions Start                      End		
Emission Color Start                      End	If Water Droplet Plume (Circle) Attached      Detached      N/A	
Point In The Plume At Which Opacity Was Determined Start                      End		
Describe Plume Background Start                      End		
Background Color Start                      End	Sky Condition Start                      End	
Wind Speed Start                      End	Wind Direction Start                      End	
Ambient Temp Start                      End	Wet Bulb Temp	RH Percent

Observation Date		Start Time			End Time	
Sec	Min	0	15	30	45	Comments
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
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Additional Information
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Observer's Name (Print)	
Observer's Signature	Date
Organization (Observer's Company)	
Certified By (M9 Observer Training Organization)	Date



**Form 7: Complaint Summary Form**

Reporting Period:  11/1/\_\_\_ to 3/31/\_\_\_  4/1/\_\_\_ to 10/31/\_\_\_

Permittee Name: \_\_\_\_\_ Permit No.: AQ \_\_\_\_\_

Facility Name: \_\_\_\_\_

Number of Complaints Received:	
Number of Times Corrective Actions were Found Necessary:	
Number of Times Corrective Action was Taken Within 24 hours:	

Status of corrective actions deemed necessary that were not taken within 24 hours:

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Comments:

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**Form 9: Equipment Operated Report Form**

Permittee Name: \_\_\_\_\_ Permit No.: AQ \_\_\_\_\_

Facility Name: \_\_\_\_\_

Location Name(s): \_\_\_\_\_

List in the table below the equipment that is subject to the Permit including equipment installed or removed during the reporting period. Rated capacity must be included. Report any asphalt plants, rock crushers or diesel engines rented during the reporting period.

**Table 1 – Operational Equipment List**

<b>EU ID</b>	<b>Equipment Description</b>	<b>Make / Model</b>	<b>Rated Capacity hp/kW or tph</b>	<b>Date Installed</b>	<b>Date Removed</b>	<b>Operated Yes/No</b>	<b>Rented Yes/No</b>

**Form 10: Stored Non-Operating Equipment Log**

Permittee Name: \_\_\_\_\_ Permit No: AQ \_\_\_\_\_

Location Name: \_\_\_\_\_

Facility Name: \_\_\_\_\_

Use this form to report any non-operating equipment stored at the Facility Location that is not listed in Table A of this permit that requires an Air Quality Permit and is onsite only for storage. Equipment operated concurrently should be reported on *Form 9: Equipment Operated Report Form*. Stored equipment shall not be operated until a date removed from storage is specified on this form. Stored equipment may include other asphalt plants, rock crushers, or nonroad engines.

**Table 1 – Non-operational Equipment List**

Equipment Description	Make / Model	Date Placed into Storage	Date Removed from Storage	AQ Permit No, if applicable

**Form 11: Rental Equipment Notification**

Use this form to report to the Department if the entire Facility or any equipment authorized to operate in Table A is rented or leased to a third party under any business arrangement per Condition 4.1. If emission units are leased this form must be submitted to the Department within 7 days of the signed contract. A lease agreement for any equipment authorized under this permit must include language certifying that the third party will comply with Alaska Statutes and Regulations. The equipment change should also be Reported on Form 9 or equivalent in both Permittees next semi-annual FOR submittal.

Permittee Name: \_\_\_\_\_ Permit No: AQ \_\_\_\_\_

Equipment Leased: \_\_\_\_\_

\_\_\_\_\_

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Responsible Official Signature	Printed Name	Date
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Lessee Business Name: \_\_\_\_\_

Lessee Responsible Official: \_\_\_\_\_

Lessee Business Address: \_\_\_\_\_ Lessee Phone #: \_\_\_\_\_

Date of Lease: \_\_\_\_\_ Date Equipment to be Returned: \_\_\_\_\_

Location Equipment Operated: \_\_\_\_\_

Lessee Air Quality Permit No.: \_\_\_\_\_ (Required)

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Lessee Responsible Official Signature	Printed Name	Date
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**Form 12: Asphalt Plant Daily Production Log – For Plants Using Wet Scrubbers**

Reporting Period:  11/1/\_\_\_ to 3/31/\_\_\_  4/1/\_\_\_ to 10/31/\_\_\_

Permittee Name: \_\_\_\_\_ Permit No.: AQ \_\_\_\_\_

Facility Name: \_\_\_\_\_

Date	Start Time	Stop Time	Total Operating Hours	Peak Hourly Production (tph)	Total Production (tons)	Scrubber Pressure Drop		Scrubber Inlet Temperature		Scrubber Outlet Temperature		Scrubber Water Flow Rate	Initials
						AM	PM	AM	PM	AM	PM		