I-70 East Air Quality Monitoring, Maintenance, and Mitigation Plan (AQ3MP) Template

1. Introduction and Purpose
   - 1.1. Project Setting *(discuss topography and land use, and include a topographical map of the area showing the project location and proposed monitoring sites)*
   - 1.2. Climate and Meteorology *(include quarterly wind roses from meteorological data representative of the project area)*
   - 1.3. National Ambient Air Quality Standards
   - 1.4. Applicable Regulations
   - 1.5. Project Scope
   - 1.6. Overall Project Schedule *(discuss timing of monitoring activities with respect to project schedule)*
   - 1.7. Emissions Source Types *(activities and/or general types of equipment which will generate emissions)*
2. Organization and Responsibilities *(who is responsible for compliance with various aspects of the plan)*
   - 2.1. Key Personnel
   - 2.2. Personnel Responsibilities
   - 2.3. Support Personnel
   - 2.4. Emergency Response
   - 2.5. Staff Training
3. Daily Visual Project-Wide Monitoring *(to prevent off-site transport of fugitive dust)*
   - 3.1. Purpose of Monitoring
   - 3.2. What Will Be Monitored, Where and How Frequent
   - 3.3. Notification of Exceedances
   - 3.4. Corrective Action
   - 3.5. Training and Qualifications
4. Daily Visual Stationary Source Monitoring *(opacity measurements from regulated and/or permitted stationary sources)*
   - 4.1. Purpose of Monitoring
   - 4.2. What Will Be Monitored, Where and How Frequent

4.3. Notification of Exceedances

4.4. Corrective Action

4.5. Training and Qualifications

5. PM_{10} Monitoring

5.1. Purpose of Monitoring

5.2. Siting

5.2.1. Coordinates *(UTM or Lat./Long.)*

5.2.2. Rationale for monitor locations

5.2.3. Height of monitor *(air intake)* above ground

5.2.4. Distance from, and heights of, nearby obstructions and emissions sources *(stationary and mobile)*

5.2.5. Photographs of each site *(5 total: one in each cardinal direction from proposed site, and one close-up of the site itself)*

5.3. Equipment *(manufacturer, model, features)*

5.4. Installation

5.5. Operation

5.6. Calibrations *(include description and frequency of calibration system)*

5.7. Maintenance

5.8. QA/QC Procedures *(include data precision and accuracy calculation procedures, as well as description and frequency of independent audit system)*

5.9. Data Completeness Goals

5.10. Data Reporting *(frequency, format, and venues)*

5.11. Data Access *(for project staff)*

5.12. Action Thresholds *(automated alert system for high levels at one or more monitors)*

5.13. Corrective Action(s) *(if high PM_{10} levels trigger the automated alert system)*

6. Meteorological Monitoring

6.1. Purpose of Monitoring

6.2. Siting *(section may be abbreviated if co-located with the PM_{10} monitors)*

6.2.1. Coordinates *(UTM or Lat./Long.)*

6.2.2. Rationale for monitor locations

6.2.3. Height of monitor *(sensors)* above ground

6.2.4. Distance from, and heights of, nearby obstructions

6.2.5. Photographs of each site *(5 total: one in each cardinal direction from proposed site, and one close-up of the site itself)*

6.3. Equipment *(manufacturer, model, features)*

6.4. Installation

6.5. Operation

6.6. Calibrations *(include description and frequency of calibration system)*

6.7. Maintenance

6.8. QA/QC Procedures *(include data precision and accuracy calculation procedures, as well as description and frequency of independent audit system)*

6.9. Data Completeness Goals

6.10. Data Reporting *(frequency, format, and venues)*

6.11. Accessing Existing Data Sources *(if an acceptable existing station is to be used in lieu of a new station)*

7. Stakeholder Impact Mitigation

7.1. Identification of Stakeholder Groups

7.2. Coordination and Timing of Communication with Public

7.3. Communication before the Construction Activity

7.4. Communication During Construction Activity

7.5. Communication after the Construction Activity

7.6. Identifying Potential Impacts to Stakeholders

7.7. Mitigation Measures to Alleviate Impacts to Stakeholders

8. Daily Air Quality Observations and Corrective Actions

8.1. Air Quality Observations and Mitigation Log daily entries

8.2. Notification and Submittals

9. Swansea Elementary School Independent Air Monitoring

9.1. Review Data to Ensure Effectiveness of BMPs

10. Best Management Practices *(list mandatory BMPs as well as the suite of practices that may be used if a monitoring threshold is exceeded)*

Appendices

Appendix A: Forms

(Daily visual fugitive dust and opacity monitoring, PM10 Calibration, PM10/MET station inspection and maintenance, QA/QC, etc.)