

APPENDIX E-4

**Proposed Conditions for New Ambient Monitor**

---

## **Ambient Monitoring Requirements**

KUC shall operate an ambient monitoring station as described in this Approval Order. The monitoring plan will be periodically reviewed by UDAQ and revised as necessary. [R307-401]

The air monitoring installation and set-up shall be completed within 90 days of the AO issuance. KUC shall complete the calibration and equipment testing within 30 days of the final set-up and installation date.

If three consecutive years of monitoring data indicates compliance with the NAAQS, KUC may petition UDAQ to remove the air monitoring station.

KUC shall operate and maintain one (1) monitoring site in the vicinity of one of the top five highest modeled ground level emission concentrations. The monitor shall be sited in a location impacted by the highest modeled concentration of emissions near lower Butterfield Canyon area. This site is along the mine's southwest property boundary. The exact location of the monitoring site shall be approved by the UDAQ and meet all of the siting requirements established by the UDAQ.

KUC shall utilize air monitoring and quality assurance procedures which are equal to or exceed the requirements described in the EPA Quality Assurance Manual including revisions 40 CFR Parts 53 and 58.

The air monitoring shall track the long-term impacts of emissions from the facility. Should monitoring data indicate that project emissions are producing ambient air impacts that could produce an exceedance of the NAAQS, additional air monitoring or analyses will be required. If this situation occurs, an additional data assessment plan shall be developed that is mutually acceptable to both UDAQ and KUC.

KUC shall monitor the following parameters listed below:

Site Name:	TBD
UTM Coordinates	TBD
Parameter	PM <sub>10</sub>
Frequency	Every 6 <sup>th</sup> day

Note: PM<sub>10</sub> is defined as particulate matter less than 10 microns in aerodynamic diameter.

Any ambient air monitoring changes proposed by KUC must be approved in writing by the Executive Secretary or representative. [R307-401]

KUC shall submit quarterly data reports within 45 days after the end of the calendar quarter and an annual data report within 90 days after the end of the calendar year. [R307-401]

The quarterly report shall consist of a narrative data summary and a submittal of all data points in EPA-AIRS record format. The data shall be submitted in compact disk (CD) format. The narrative data summary shall include:

- A. A topographic map of appropriate scale with UTM coordinates and a true north arrow showing the air monitoring site locations in relation to the mine and the general area;
- B. A hard copy of the individual data points;

- C. The quarterly and monthly arithmetic means for PM<sub>10</sub> and wind speed;
- D. The first and second highest 24-hour concentrations for PM<sub>10</sub>;
- E. The quarterly and monthly wind roses;
- F. A summary of the data collection efficiency;
- G. A summary of the reasons for missing data;
- H. A precision and accuracy (audit) summary;
- I. A summary of any ambient air standard exceedances; and
- J. Calibration information.

[R307-401]

The annual data report shall consist of a narrative data summary containing:

- A. A topographic map of appropriate scale with UTM coordinates and a true north arrow showing the air monitoring site locations in relation to the mine and the general area;
- B. A pollution trend analysis;
- C. The annual arithmetic means for PM<sub>10</sub> and wind speed;
- D. The first and second highest 24-hour concentrations for PM<sub>10</sub>;
- E. The annual wind rose;
- F. An annual summary of data collection frequency;
- G. An annual summary of precision and accuracy (audit) data;
- H. An annual summary of any ambient standard exceedance;
- I. Annual mine material moved in tpy; and
- J. Recommendations on future monitoring.

[R307-401]

The Executive Secretary may audit, or may require KUC to contract with an independent firm to audit, the air monitoring network, the laboratory performing associated analysis, and any data handling procedures at unspecified times. On the basis of the audits and subsequent reports, the UDAQ may recommend or require changes in the air monitoring system and associated activities in order to improve precision, accuracy, and data completeness. [R307-401]