

**IOWA DEPARTMENT OF NATURAL RESOURCES
FIELD SERVICES AND COMPLIANCE BUREAU
FIELD OFFICE #2 - MASON CITY IOWA**

DATE: October 30, 2023

TO: The Record

FROM: David Knoll

SUBJECT: Heidelberg Materials (Lehigh Cement) Opacity Excess Emissions
Complaint ID# 32806
700 25th Street, NW, Mason City, IA, Cerro Gordo County

At approximately 2:00 PM on the afternoon of October 17, 2023, Isaiah Lary (DNR FO2) observed a trail of dark emissions extending past the vapor plume coming from the main stack (EP 25) at Heidelberg Materials. Isaiah collected pictures and a video of the emissions. Other FO2 staff also observed similar looking emissions from the facility that afternoon while traveling through the Mason City area.

I contacted the facility the following morning as no excess emissions report had been made. Rachel Glaza, Environmental Manager, explained that after looking back over their records, the CPMS did indicate an opacity exceedance during the same timeframe this office observed the emissions. Maintenance was then performed on the ESP on October 18th, and the CPMS returned to permitted ranges. I also observed the facility's main stack for several minutes that same afternoon and only vapor was visible in the plume at the time of my observation (Photo 2).

I requested a written EE report be filed with this office detailing the amount of PM that was emitted as a result of the event. E-mail correspondence with Ms. Glaza and other Heidelberg Materials staff ensued regarding the PM calculations. The written report was received on the agreed upon date of October 26th. The facility determined there was not a method to correlate the opacity CPMS data to an actual PM emissions amount. The DNR AQ Bureau was also involved in the discussion and will provide further comment to the facility after reviewing the report.

An NOV will be issued by this office for failure to report the excess emissions within the required timeframe.

DK



Photo 1: Emissions from Heidelberg Materials on the afternoon of October 17, 2023. A dark plume detached from the steam plume is evident. Photo by Isaiah Lary, FO2 (looking northeast).



Photo 1: Emissions from Heidelberg Materials on the afternoon of October 18, 2023. Only the steam plume was visible. Photo by David Knoll, FO2 (looking west).