

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Scheduled Inspection

P037028036

FACILITY: PARTRIDGE ENTERPRISES, INC.		SRN / ID: P0370
LOCATION: 9193 W HOUGHTON LAKE DR, HOUGHTON LAKE		DISTRICT: Gaylord
CITY: HOUGHTON LAKE		COUNTY: ROSCOMMON
CONTACT: Rodney Partridge, Vice President		ACTIVITY DATE: 12/09/2014
STAFF: Shane Nixon	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: On-site inspection		
RESOLVED COMPLAINTS:		

AQD staff traveled to the Partridge Enterprises facility in Houghton Lake with the intent to perform an inspection. The purpose of the inspection was to determine the facility's compliance with Permit to Install No. 120-12. AQD staff met Mr. Rodney Partridge and Mr. Dan Miller of Partridge Enterprises and Mr. Jim Thiel, Land Use/Zoning Officer, Lake Township, and Mr. Stan Christler, Lake Township Supervisor. Mr. Thiel and Mr. Christler were present as a result of numerous complaints they received regarding noise and odors from the animal crematory.

EUCREMATORY01 - ISI-27 Crematory which is restricted to a charge rate of 300 pounds and limited to firing only on natural gas.

Emission Limits - Particulate matter emissions are limited to 0.20 pounds per 1,000 pounds of exhaust gases. Compliance with the emission limit is demonstrated via stack testing upon request by the AQD. At this time, AQD staff have not requested stack testing.

Material Limits - Based upon records maintained at the facility, AQD staff observed the highest charge weight of 97 pounds occurred on December 3, 2014.

Process/Operational Restrictions - As required by the Permit to Install, a minimum temperature in the secondary chamber was maintained above 1,600 degrees Fahrenheit as observed by records reviewed by AQD staff. Operating and maintenance procedures as outlined in the Permit to Install were followed by the company. AQD staff requested that facility staff record the date, time, and observations made when observing the stack. Mr. Partridge indicated that he will install surveillance cameras and direct the view towards the stacks to make stack observations easier for facility staff. A manufacturer manual for the crematory was located at the Clark Lake facility instead of the Houghton Lake location. AQD staff requested that a copy of the manual be available at the Houghton Lake facility.

Design/Equipment Parameters - A thermocouple and chart recorder were installed to monitor and record the temperature of the secondary chamber. A calibrated scale was present at the facility for verification of the charge weight. Mr. Partridge indicated that the weights documented from the veterinarian are used for a majority of the animals brought to the facility. The scale is used when the weight of the deceased animal is unknown.

Testing/Sampling - There are no testing or sampling requirements associated with this emission unit; therefore, this section is not applicable.

Monitoring/Recordkeeping - As mentioned previously, the temperature of the secondary combustion chamber is monitored and recorded on a continuous basis. Daily records of the duration of burn and a description and weight of the animals combusted were available for AQD staff to review. Mr. Partridge indicated the crematory has maintenance performed on a regular basis and will provide AQD staff will records of the most recent maintenance performed.

Stack/Vent Restrictions - The stack associated with the crematory appeared to be constructed in accordance with the dimensional requirements listed in the Permit to Install after Mr. Partridge increased the stack height of the crematory.

EUCREMATORY02 - Therm-tec Model G-8-P Crematory which is restricted to a charge rate of 750 pounds and limited to firing only on natural gas.

Emission Limits - Particulate matter emissions are limited to 0.20 pounds per 1,000 pounds of exhaust gases. Compliance with the emission limit is demonstrated via stack testing upon request by the AQD. At this time, AQD staff have not requested stack testing.

Material Limits - Based upon records maintained at the facility, AQD staff observed the highest charge weight of 282 pounds occurred on September 19, 2014.

Process/Operational Restrictions - As required by the Permit to Install, a minimum temperature in the secondary chamber was maintained above 1,600 degrees Fahrenheit as observed by records reviewed by AQD staff. Operating and maintenance procedures as outlined in the Permit to Install were followed by the company. AQD staff requested that facility staff record the date, time, and observations made when observing the stack. Mr. Partridge indicated that he will install surveillance cameras and direct the view towards the stacks to make stack observations easier for facility staff. A manufacturer manual for the crematory was available on-site for AQD staff review.

Design/Equipment Parameters - A thermocouple and chart recorder were installed to monitor and record the temperature of the secondary chamber. A calibrated scale was present at the facility for verification of the charge weight. Mr. Partridge indicated that the weights documented from the veterinarian are used for a majority of the animals brought to the facility. The scale is used when the weight of the deceased animal is unknown.

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Stack/Vent Restrictions - The stack associated with the crematory appeared to be constructed in accordance with the dimensional requirements listed in the Permit to Install after Mr. Partridge increased the stack height of the crematory.

Conclusion - Based upon the on-site inspection, AQD staff consider the facility to be in compliance with Permit to Install No. 120-12

NAME Shane Nixon

DATE 12/15/14

SUPERVISOR 