

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

N750331613

<b>FACILITY:</b> OAKWOOD PET CREMATIONS		<b>SRN / ID:</b> N7503
<b>LOCATION:</b> 1631 WEST BURDICKVILLE RD, MAPLE CITY		<b>DISTRICT:</b> Cadillac
<b>CITY:</b> MAPLE CITY		<b>COUNTY:</b> LEELANAU
<b>CONTACT:</b>		<b>ACTIVITY DATE:</b> 09/01/2015
<b>STAFF:</b> Caryn Owens	<b>COMPLIANCE STATUS:</b> Compliance	<b>SOURCE CLASS:</b> MINOR
<b>SUBJECT:</b> Scheduled Inspection and Records Review		
<b>RESOLVED COMPLAINTS:</b>		

On Tuesday, September 1, 2015, Caryn Owens of the Department of Environmental Quality (DEQ) – Air Quality Division (AQD) conducted a scheduled field inspection and records review of Oakwood Pet Cremations (SRN: N7503), located at 1631 West Burdickville Road, Maple City, Leelanau County, Michigan. More specifically, the facility is located south of West Burdickville Road, approximately 1/3 mile east of South Coleman Road. The field inspection and records review were to determine compliance with the Permit to Install (PTI) 188-05. Oakwood Pet Cremations is currently a minor source for particulate matter (PM) criteria air pollutants. No National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations are applicable for Oakwood Pet Cremations.

### Evaluation Summary

The activities covered during this scheduled field inspection and records review appears to be in compliance with PTI 188-05. No further actions are necessary at this time. Specific permit conditions that were reviewed are discussed below.

### Source Description

Oakwood Pet Cremations is a pet crematory that consists of several deep freezers, a storage room, a Crawford brand animal incinerator, a process area to make the ashes the same consistency, and an Ossuary outside for unclaimed ashes. The facility accepts animals from local residents and local veterinarians.

### On-site Inspection:

During the field inspection it was mostly sunny with calm wind less than 5 miles per hour, and approximately 90 degrees Fahrenheit. DEQ met with Ms. Mandy DePuy, Owner of the facility. DEQ forgot to give Ms. DePuy an inspection brochure, but will email one with this inspection report. The incinerator was not operating at the time of the inspection, but was still hot because it takes a while to cool down following a cremation. The incinerator was a Crawford Equipment brand unit as described in the PTI, and has a maximum capacity of 200 pounds with a 75 pound per hour burn rate. It is operated with a touchscreen control panel. Once the animal is loaded, the touch screen completes the remainder of the work until the end. There are both temperature sensors and a temperature recording circular chart on the incinerator for recordkeeping purposes. The incinerator has individual animals or a group of animals placed in it during the cremation process, and then majority of the ashes are returned to the pet's owner following the cremation process and ash preparation. Ms. DePuy stated that approximately 15-25 animals on average are cremated per week, with an average running time of 4 hours, and typically operates with one animal at a time, unless it's a group run. DEQ observed the stack of the incinerator extruding in a vertical direction from the southern portion of the building, approximately 15 feet above ground surface. A heat shimmer was observed from the top of the stack.

As previously stated, following the cremation process the remains are placed in a large pot with a blending arm at the bottom. The pot is covered and the remains are further processed to the same ash consistency, and then placed in a wooden box or urn for the pet's owner. There is a hood with an exhaust fan that contains a fabric filter over the blender. Ms. DePuy stated that the fabric filter is changed periodically, when dust appears on the fabric filter. This is a small source that appears to meet exemption R285.

### Records Review:

#### EUINCINERATOR:

##### Emission Limits:

EUINCINERATOR is limited to 0.20 pounds of particulate matter (PM) per 1000 pounds of exhaust gases corrected to 50% excess air. Compliance with this emission limit is determined through performance testing; however, compliance performance testing has not been requested by the DEQ at this time.

**Material Limits:**

According to Ms. DePuy, the facility does not process any other waste other than pathological waste in the incinerator as described in the PTI.

**Process/Operational Restrictions:**

Based on discussions with Ms. DePuy and the records reviewed during the field inspection, the incinerator operated at a temperature of approximately 1700 degrees Fahrenheit. There were times when the temperature would increase greater than that because the animal had denser fur and/or more fat, but the temperature was always above the minimum 1600 degrees Fahrenheit required by the PTI.

Additionally, based on the field inspection and records reviewed, only trained operators use the incinerator, and the ashes are properly removed after each use. The incinerator is operated by a touch screen control panel that includes temperature sensors. The facility also records the temperature on a circular paper chart for recordkeeping. The incinerator is equipped with a UV smoke detection system in the stack, and will begin a shutdown process if smoke is detected in the stack. The facility follows manufactures recommendations, and the facility inspects the incinerator quarterly or more frequently if needed. Additionally, the incinerator is inspected annually by Matthews Cremation Service. The last date the incinerator was inspected was April 2015. According to Ms. DePuy, they facility is looking at upgrading the incinerator since Crawford Equipment is no longer in business. Ms. DePuy will contact the DEQ when this decision is made for a PTI modification.

**Monitoring**

As previously stated, the temperature in the secondary chamber is continuously monitored with a temperature sensor and a circular recording chart.

**Reporting and Recordkeeping**

During the facility inspection, DEQ reviewed the facility records which recorded the date, the name of the animal, the name of the owner, the type of cremation, and the weight of the animal, and a facility ID number for the animal. The records were complete and up to date.

Additionally, the facility kept the circular temperature records, and they appeared consistent and up to date. DEQ observed no concerns with the recordkeeping at the facility.

**Stack/Vent Restrictions**

The stack height and diameter appeared to be within permitted limits of the facility.

NAME Camp Owens

DATE 9/1/15

SUPERVISOR

[Signature]