

P1114
MAYILA

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: On-site Inspection

P111469281

FACILITY: Dino-Mite Crushing & Recycling, LLC		SRN / ID: P1114
LOCATION: 12625 Greenfield Road, DETROIT		DISTRICT: Detroit
CITY: DETROIT		COUNTY: WAYNE
CONTACT: Anthony Calo , Agent		ACTIVITY DATE: 08/29/2023
STAFF: Terseer Hemben	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Concrete Crushing & Mixing		
RESOLVED COMPLAINTS:		

COMPLIANCE INSPECTION OF DINO MITE CRUSHING & RECYCLING

August 29, 2023

12625 Greenfield Road, Detroit, MI

SRN: P1114

County: Wayne

Present: Dan Calo

Inspector -Terseer Hemben (EGLE)

FACILITY BACKGROUND

The Dino-Mite Crushing & Recycling, LLC (Dino-Mite) is located at 12625 Greenfield Road, Detroit. The facility installed and operated concrete crusher, Silo, loader, with a weight scale. The facility has water sprinkling system that wets the surfaces and concrete piles. There is a water pool, and raptors that rinse tire trucks free of dust for vehicles that exit the facility premises after loading.

The Dino-Mite facility operation is regulated under Permit to Install (PTI) No. 48-18A and the Federal Standards of Performance for New Stationary Sources, 40 CFR, Part 60, Subparts A and OOO, which covers concrete, cement, and construction processes.

INSPECTION NARRATIVE

I arrived at the 12625 Greenfield Road, Detroit at 1040 hours on August 29, 2023. The purpose of visit was to conduct an unannounced compliance inspection of the Dino-Mite Crushing & Recycling operations with reference to PTI No. 48-18A and 40 CFR, Part 60, Subparts A and OOO. The weather was sunny when I arrived. Temperature was 71F, wind speed 10 mph coming from the NW, and humidity 59%. I approached the site via Greenfield Road northbound and turned left onto the driveway. I drove onto the side road and parked on the concrete pavement close to the front office. There were trucks on the site waiting to pick up loads. Trucks drove under the loading silo using auto-mechanical concrete loading system installed at the site. There was crushing of concrete at the time of my visit. Water sprinklers were fully on, and sweepers were active. There was no stirred dust in the air at site as grounds had been wetted with suppressants. The facility was swept and cleaned. I inspected the manual loading procedure, concrete, and the concrete wall mounted around piles. The yard was organized in satisfactory manner in compliance with the fugitive dust abatement requirements. I submitted my request for records to Dan Calo for the site production records. Dan sent the records of site indicating regular dust suppressing practice. The operator informed the company changes dust bags 2 times per year. I left the area at 1130 hours. Dan provided copies of dust maintenance schedule but pledged to send production records through the email.

COMPLAINT/COMPLIANCE HISTORY:

The Dino-Mite located at 12625 Greenfield Road, Detroit, has had few citizen complaints since beginning operation.

OUTSTANDING VN:

None

PROCESS DESCRIPTION:

The Dino-Mite operates concrete mixing processes at 12625 Greenfield, Detroit location. The installed equipment comprised a concrete crusher, mixer, silo with mechanical product loader, dust sweeper, water sprinkler for dust suppression and a weight scale.

EQUIPMENT AND PROCESS CONTROLS:

Same as listed in the process description.

OPERATING SCHEDULE/PRODUCTION RATE:

The Dino-Mite was set up to operate full three shifts covering 24 hours, through 7 days per week, and 365 days of the year. However, the company operates at the rate dictated by demand. The facility keeps in-person employees at the site during loading or unloading of the concrete materials.

APPLICABLE RULES, PERMIT TO INSTALL, and 40 CFR 60, Subparts A and OOO:

The Dino-Mite operations was evaluated consistent with each permit conditions. The inspection determined the facility was in the following compliance state:

PTI No. 48-14A

Special Condition I.1.2b: Compliance. The condition addressing visible emissions from the Sidewinder 4231 crusher portion of the portable crushing plant in which the emission requires not to exceed the 12% opacity per the 40 CFR Part 60, Subparts A and OOO was observed. The VE was 5% at the time of this inspection.

Special Condition I.1.2e: Compliance. The visible emissions (VE) from the feeder hopper, the stacking conveyor and all transfer point portions of the portable material crushing plant should not exceed 7% opacity based on the 40 CFR Part 60, Subparts A and OOO was observed. The feed hopper source VE was 5% at the time of this inspection visit.

Special Condition II.1: Compliance. The emission records were not submitted to EGLE-AQD to determine compliance with tonnage processed per the rolling 12 months. The 2022 emission records in MAERS indicated the facility equipment did not exceed the 600,000 tons per calendar year of material through the portable material crushing plant at the site. The 2022 MAERS reports 453,453.75 tons processed in calendar year 2022.

Special Condition II.2: Compliance. The Dino-Mite shared their policy on AQD file that stated the Company does not take Asbestos containing material for processing.

Special Condition IV.1: Compliance. Dino-Mite was operating the crusher at the time of this inspection and applying the sprinkler system simultaneously to keep the dust down on the site.

Special Condition III.1, VI.3: Compliance. The portable material crushing was operating at the time of this inspection. The grounds and premises around the plant yard, on material storage piles, and all material handling operations showed evidence that fugitive dust controls were applied in accordance with the Appendix B.

Site Roadways: Compliance. The dust on the site roadways/plant yard was controlled by application of water at the time of this inspection visit. All roadways/plant yard was swept and free of fugitive dust. Records of sweeping and cleaning are attached. Speed of vehicles going through the site was posted and limited to 10 mph. There was no material spillage left unremoved at the yard.

Plant: Compliance. A spray system was located at strategic locations to reduce and control fugitive dust emissions as needed in locations not included in the permit, such as the street and concrete crushing area.

Storage Piles: compliance. Stockpiling of all aggregate was performed with wheeled loaders and mechanical stackers to minimize drop distance and control potential dust problems. A wheel loader and mechanical stacker equipment were parked at the back of the yard at the time of this inspection.

Stockpiles were sprinkled with dust suppressant adequately to meet the opacity limits included within the permit. Evidence of dust suppression activities at the Dino-Mite facilities operation were noted. Moisture content was maintained by sprinklers.

Truck Traffic: compliance. Onsite vehicles were auto-mechanically loaded. In preventing bulk contents from dropping, leaking, blowing, or otherwise escaping, the vehicles were tarped. Off-site operating trucks were securely tarped or drummed before leaving the yard.

DETERMINATION

The Dino-Mite Crushing & Recycling facility located at 12625 Greenfield, Detroit, was inspected. The facility met the conditions in the permit. Fugitive dust requirements and permitted opacity limits were met. Recordkeeping practice met the operative requirements for Cement, Concrete, and construction industrial operations. However, the Dino-Mite Concrete failed to provide production records for review. Staff shall follow up with the Dino-Mite Crushing and Recycling for extracting the records as requested for the EGLE – Air Quality Department.

The over all compliance of the facility remains compliance at this time.

NAME flr

DATE 2/26/2024 SUPERVISOR JR