

**DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Complaint Investigation**

N726334391

| | | |
|--|-----------------------------------|------------------------------|
| FACILITY: Formtech Industries LLC Fraser | | SRN / ID: N7263 |
| LOCATION: 18450 15 MILE ROAD, FRASER | | DISTRICT: Southeast Michigan |
| CITY: FRASER | | COUNTY: MACOMB |
| CONTACT: | | ACTIVITY DATE: 04/19/2016 |
| STAFF: Tyler Salamasick | COMPLIANCE STATUS: Non Compliance | SOURCE CLASS: |
| SUBJECT: Investigation of fugitive dust and fallout. | | |
| RESOLVED COMPLAINTS: | | |

Background

Formtech Industries LLC of Fraser is an automotive cold steel forging and machining facility located at 18450 15 Mile, Fraser, MI. The manufacturing facility was inspected on Tuesday 4/19/16 by Tyler Salamasick of the Michigan Department of Environmental Quality, Air Quality Division. The intent of the inspecting was follow up on complaint number C-16-01341 and to determine the source of metallic particulate fallout located at both Moldtech 34497 Kelly Rd, Fraser, MI 48026 and BMT Aerospace USA 18559 Malyn Blvd, Fraser, MI 48026. Formtech does not currently hold any air permits, however they do have an exempt baghouse for steel shot blasting operations. Formtech is located directly north of Moldtech and BMT Aerospace. This is the second complaint for fallout of a metallic looking particulate.

Inspection

I first met with Max Berman at BMT Aerospace to discuss the fallout. Site arrival was at 9:00am Tuesday morning. The weather conditions were 52F with a NNE wind at 3 mph and sunny. BMT Aerospace is located in a semi industrial area. BMT is approximately 200ft south of Formtech's baghouse with the affected vehicles approximately 150ft south of the baghouse. Max showed me the new fugitive dust that reportedly appeared sometime between late Friday and early Saturday morning. Max also introduced me to BMT's Maintenance Manager who told me he thinks the fugitive dust is causing issues with his air intake filters. After inspecting the vehicles for fallout I took a sample for microscopic analysis off of BMT's white Dodge 15000 van. The sample came from the windshield where it had collected on the windshield wiper. The van's paint was speckled with a rough to sharp orange material. The material felt like it was partially embedded into the paint. I documented fallout with photos as well. After collecting my sample I spoke with Barp Hoepft to inform her that I had come and collected a sample for microscopic comparative analysis.

Around 9:49 am I went to Formtech to discuss the fallout complaint. Upon arrival I was met by Ron Parrish and Brian Cicilan. I informed them that there had been another complaint. They came with me to inspect the bag house and grab an additional sample from the baghouse hopper. The hopper collects the metal by product that is created by the steel ball shot process. I took my sample as the hopper dust fell into the collection barrel. In addition I took photos of the orange dust fallout located on Formtech's property. The fallout is an orange rust colored material and is located where the baghouse vents to the open air. Ron Parrish informed me that Formtech had installed higher efficiency filters on 4/10/16. He also stated that their overall production has decreased over the last six months.

Lab Results

On Thursday 4/28/16 Michigan DEQ Air Quality Division received the lab results from the sampling done on Tuesday 4/16/16. The comparative microscopic analysis showed that both of the samples taken from the van on BMT's property and the sample taken from Formtech's bag house hopper are metallic particles. Also both metal particles are affected by a magnet and both samples have black, opaque, rough, irregular particles.

Conclusion

Formtech is in violation of rule 336.1910 for operating their air-cleaning device while not properly maintain the filters and or properly emptying storage barrels. Formtech is also in violation of rule 336.1901 based upon the lab sample results, for samples taken on 4/16/16.



Image 1(Van) : Particles are imbedded into the paint.



Image 2(Van 2) : Particles imbedded on the wheel and bumper area.



Image 3(Vehicle) : Rust like material built up on plastic.



Image 4(Windshield) : Rust like material built up on glass. The material had crusted onto the glass.

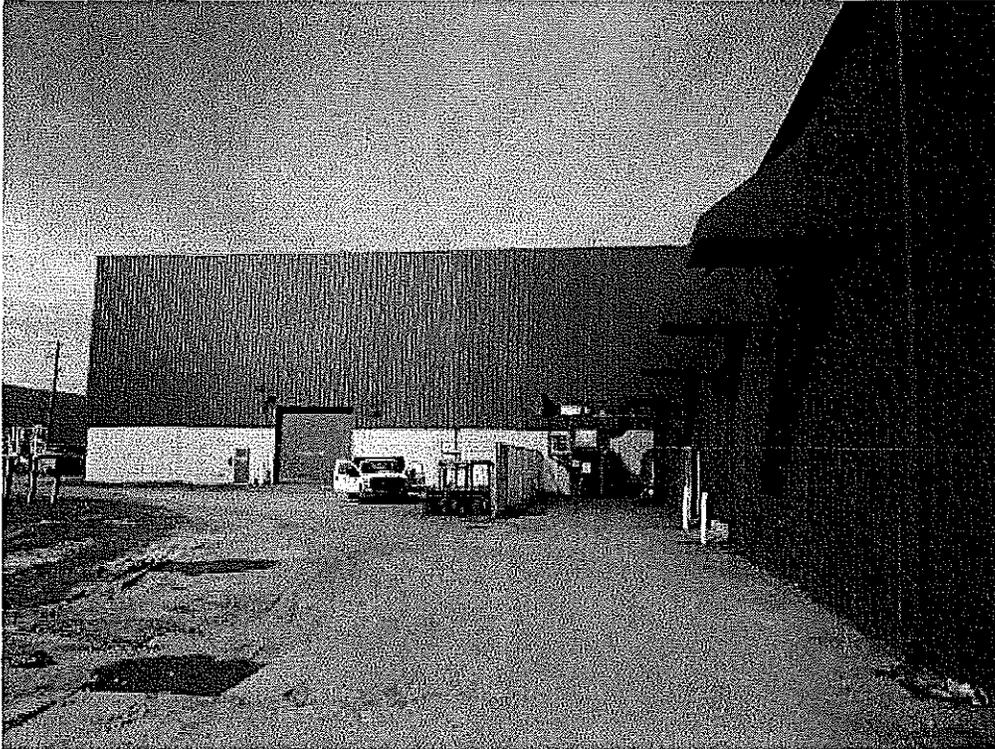


Image 5(Bag house area) : Formtech's bag house. Rust like soil contamination is present.



Image 6(Baghouse) : Close-up view of effected pollution control device.

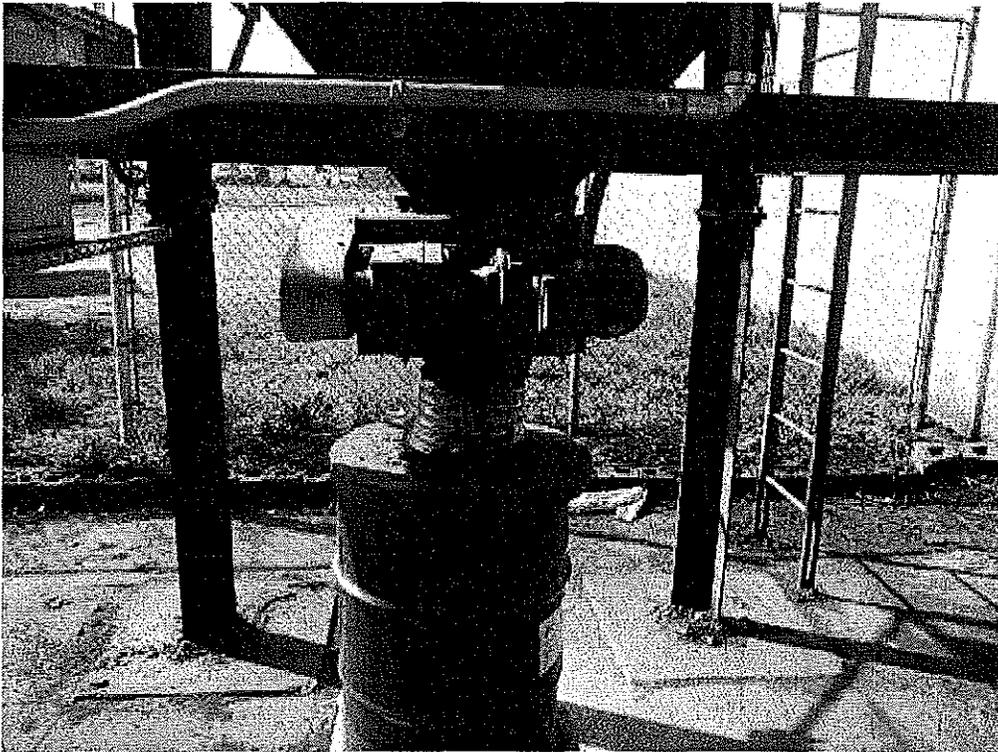


Image 7(Dust Collection) : Comparative analysis sample location.

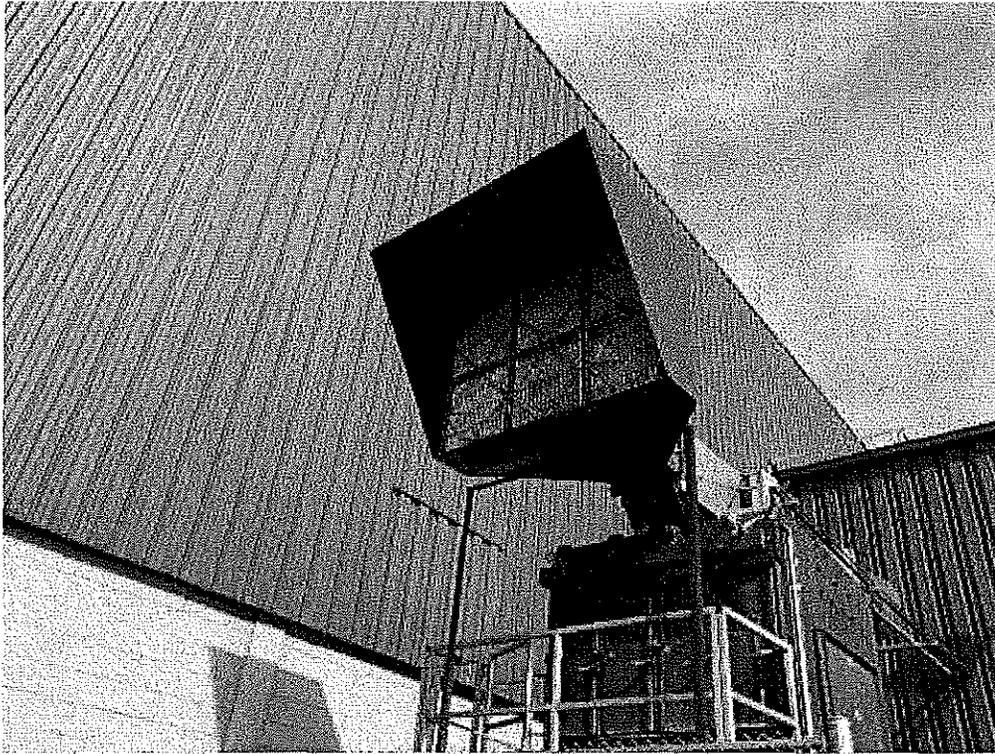


Image 8(Fabric Filters) : Fabric Filters.

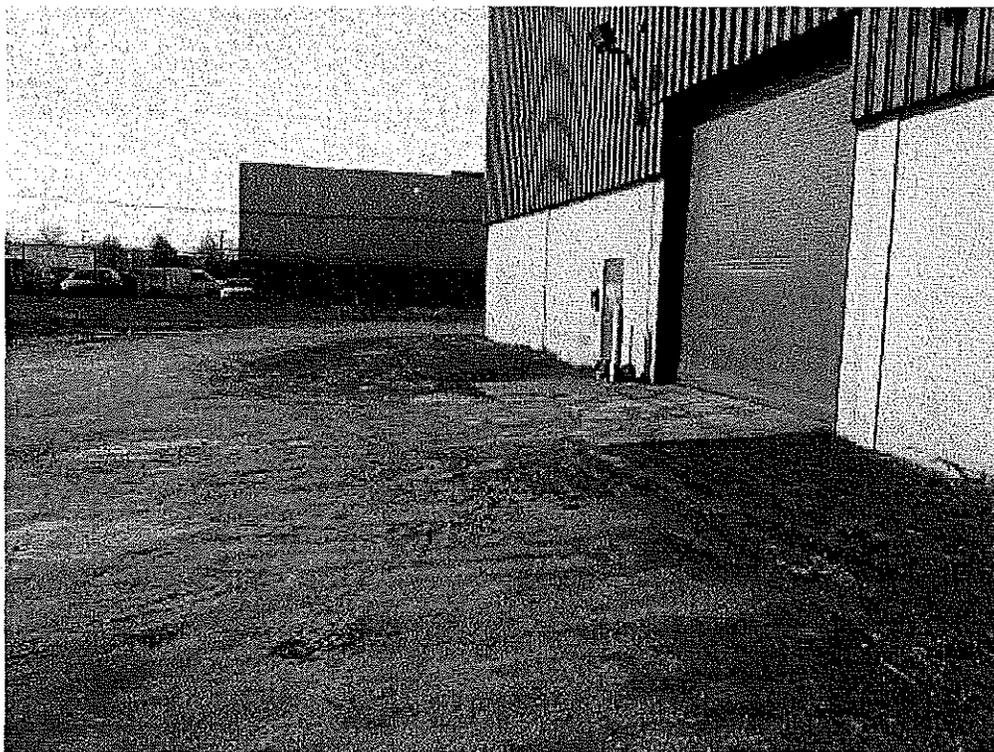


Image 9(Soil Contamination) : Rust like material in soil. BMT's parking lot is located in the back of the picture.

NAME 

DATE 5/3/16

SUPERVISOR CJE

