

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

B718934255

FACILITY: GOODALE ENTERPRISES WAYLAND FACILITY		SRN / ID: B7189
LOCATION: S TENTH ST, WAYLAND		DISTRICT: Kalamazoo
CITY: WAYLAND		COUNTY: ALLEGAN
CONTACT: Pat Goodale, <u>Todd Huey</u>		ACTIVITY DATE: 04/14/2016
STAFF: Dale Turton	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: Inspection of flare.		
RESOLVED COMPLAINTS:		

This was an announced inspection. It was necessary to contact the company area supervisor (Ted Sterk) since the site is quite often unmanned. This facility is the central tank battery for a few oil wells scattered around the Wayland area. It is also the central gas collection location for those same wells. Goodale Enterprises holds an AQD Permit to Install (PN 35-80C) for a gas sweetening facility and gas flare. Todd Huey has been hired as the general manager of the oil operations. He is taking over many of the duties that Pat has done in the past.

Gas Sweetening Plant

The gas sweetening plant has not been operated since 1993. It is in a state of disrepair. Most, if not all of the equipment is rusted out and doesn't appear to be usable without a considerable effort. Nevertheless, the company does not want to void out the permit for the equipment just in case they ever wanted to use it again.

Gas Collection / Oil Tanks / Flare

The flare was being operated. There are two lines coming in to the flare, one from the field, and one from the tank battery. There is a continuous flame at the base of the stack. There have not been any complaints due to this operation.

There are circular charts separately monitoring the flow from each line. Both charts are 0% to 100% scale charts. The vent line chart was reading at about 2% of the full scale. The fuel gas line chart was reading at about 12% of full scale. Ted did not know how this translates into the daily flow that is reported in their quarterly report. This did compare very similar to the readings taken during the previous inspection. Company personnel at the site don't know because they send the charts into the company HQ's and to a consultant to be read. The gas flow rate from the latest quarterly report was 34 to 44 MSCFD, compared to 115 MSCFD as permitted. The company is claiming a 99% + conversion of the H₂S to SO₂ in the flare. The SO₂ emission rate is in compliance with the permit.

There is a permit condition that requires that the system shut-in if the pilot on the flare goes out. Also an automatic phone call should be made to an operator so that the pilot can be relit within two hours. The alarm system was not working during the inspection. The electrician was able to quickly repair the system by replacing the transformer. A follow-up inspection 4 days after the initial inspection confirmed that this is now working.

Pat Goodale is doing the monthly Draeger Tube (or equivalent) sampling to determine the H₂S. We have been receiving the quarterly reports of this sampling. The quarterly report shows SO₂ emissions at about half, and the H₂S emission at less than a tenth of the allowed pounds per hour in the permit. The company submitted a copy of the monthly sample results.

The permit also requires that they take a yearly gas grab sample and have it analyzed by gas chromatography. At the time of the inspection, the sample for this year had not yet been taken. The sample has now been taken at the gas meter and they will submit the results after they are received from the lab.

NAME Dale Turton

DATE 5/3/2016

SUPERVISOR MB 5/3/2016