



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604**

SUBJECT: CLEAN AIR ACT INSPECTION REPORT
Vantage Oleochemicals Inc., Chicago, IL

FROM: Brianna Fenzl, Environmental Engineer
AECAB (IL/IN)

THRU: Nathan Frank, Section Supervisor
AECAB (IL/IN)

TO: File

BASIC INFORMATION

Facility Name: Vantage Oleochemicals Inc. (Vantage)

Facility Location: 4560 S Racine Avenue, Chicago, IL

Date of Inspection: June 3, 2022

EPA Inspector(s):

1. Brianna Fenzl, Environmental Engineer
2. Karyn DeFranco, Physical Scientist

Other Attendees:

1. Ted Flatebo, Environmental Engineer, US EPA WECAB
2. Andi Hodaj, Environmental Engineer, US EPA WECAB
3. Katherine Haile, Physical Scientist, US EPA ARD
4. Luke Toonen, Environmental Specialist, Metropolitan Water Reclamation District (MWRD)
5. Jenny Entwistle, Environmental Specialist, Metropolitan Water Reclamation District (MWRD)

Contact Email Address: Offsite Report

Purpose of Inspection: Conduct Clean Air Act offsite monitoring of air emissions from manhole covers along Vantage wastewater stream discharge.

Facility Type: Organic Chemical Manufacturing Facility

Regulations Central to Inspection: Facility FESOP permit; Illinois SIP including, but not limited to emission limits on the fatty acid plant; Facility construction permit; 40 C.F.R. Part 60 Subparts A, VVa, and NNN, including emission limits and monitoring requirements on the Luwa Glycerin Distillation (GD2) plant.

Arrival Time: 11:26 AM

Departure Time: 12:21 PM

Inspection Type:

- ☒ Unannounced Inspection
☐ Announced Inspection

OFFSITE MONITORING OBSERVATIONS

Data Collected and Observations:

Offsite monitoring was conducted outside of the Vantage's fenceline for air emissions along the wastewater stream outflow. "Manhole D" is the outlet of the Vantage's process wastewater discharge into the city sewer system adjacent to MWRD's onsite sampling point 1A. The 1A manhole cover inside the fenceline was open with equipment for sampling attached.

Manhole D lid was hot to touch. MWRD removed the lid from Manhole D and stated the outflow from Vantage was lower than expected. The 4-Gas Detection Meter detected H₂S at 4 ppm and CO at 20 ppm and 34 ppm.

Photos and/or Videos: were not taken during the inspection.

Field Measurements: were taken during this inspection.

- Toxic Vapor Analyzer (TVA) total hydrocarbon readings
- 4-Gas Detection Meter used to measure H₂S and CO.

DIGITAL SIGNATURES

Report Author: Brianna Fenzl 8/2/2022

Section Supervisor: Frank, Nathan Digitally signed by Frank, Nathan
Date: 2022.08.03 13:11:58 -05'00'

APPENDICES AND ATTACHMENTS

1. Appendix A: Field Measurement Data

Facility Name: Vantage Oleochemicals Inc.
Facility Location: 4650 S Racine, Chicago, IL
Date of Inspection: June 3, 2022

APPENDIX A: FIELD MEASUREMENT DATA

Manhole ID	Latitude	Longitude	Total hydrocarbon reading (TVA) (ppm)
A	41.812411	-87.65516	90
South of A	-	-	106
B	41.812398	-87.65524	85.9
C	41.812345	-87.65529	88
D	41.81154	-87.65524	59

Background = 2.4 ppm

4-GAS DETECTION METER

Compound	Reading (ppm)
H ₂ S	4
CO	20, 34

CALIBRATION

TVA Number: TVA A56584

Calibration Gas	Lot #	Manufacturer	Expiration Date
Zero Gas	1486172	CalGaz	May 2026

Experienced trouble with calibrating TVA. All results within 15%.