



**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: Karyn DeFranco, Physical Scientist
AECAB (MN/OH)

THRU: Brian Dickens, Section Supervisor
AECAB (MN/OH)

TO: File

BASIC INFORMATION

Facility Name: Vantage Oleochemicals Inc.

Facility Location: 4650 S Racine Avenue, Chicago, IL

Date of Inspection: May 25th, 2022

EPA Inspector(s):

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

Other Attendees:

1. Luke Toonen, Environmental Specialist, MWRD
2. Terry Sheahan, Environmental Engineer, Chicago Department of Public Health

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: The FESOP permit and Illinois SIP including, but not limited to emission limits on the fatty acid plant. As well as the construction permit and 40 C.F.R. part 60 Subparts A, VVa, and NNN, including emission limits and monitoring requirements on the Luwa Glycerin Distillation (GD2) plant.

Facility Name: Vantage Oleochemicals Inc.

Facility Location: 4650 S Racine Ave

Date of Inspection: May 25, 2022

Arrival Time: 1:36pm

Departure Time: est. 5:00pm

Inspection Type:

- ☒ Unannounced Inspection
☐ Announced Inspection

OFFSITE MONITORING OBSERVATIONS

Data Collected and Observations:

Offsite monitoring was conducted on manhole air emissions along the wastewater stream flow out of the Facility. "Manhole D" is the outlet of Vantage Oleochemical's process wastewater discharge into the system near MWRD sampling point 1A. MWRD confirmed that only Vantage Oleochemical is discharging into the sewer at Manhole D. "Manhole A" is the location that EPA took a Summa canister grab sample from on April 26, 2022. Manhole A is downstream in the sewer flow from Manhole D.

EPA took total hydrocarbon readings with a 2020 TVA and Benzene concentration readings with a handheld Phocheck Tiger Select PID. The highest readings were observed from Manhole D. *See Appendix B.*

Photos and/or Videos: were taken during the inspection.

FLIR videos were taken during this inspection. *See Appendix A.*

Field Measurements: were taken during this inspection.

- Total hydrocarbon measurements were taken with a 2020 TVA.
- Benzene concentrations were taken with a handheld Phocheck Tiger Select PID benzene gas detector.
- Temperature was determined by the temperature spot on the FLIR camera.

DIGITAL SIGNATURES

Report Author: **KARYN DEFRANCO**
Digitally signed by KARYN DEFRANCO
Date: 2022.07.25 18:12:29 -05'00'

Section Supervisor: **Frank, Nathan**
Digitally signed by Frank, Nathan
Date: 2022.07.25 21:58:04 -05'00'

Facility Name: Vantage Oleochemicals Inc.
Facility Location: 4650 S Racine Ave
Date of Inspection: May 25, 2022

APPENDICES AND ATTACHMENTS

1. Appendix A: Digital Image Log
2. Appendix B: Field Measurement Data

Facility Name: Vantage Oleochemicals Inc.

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APPENDIX A: DIGITAL IMAGE LOG

1. Inspector Name: Constantinos Loukeris	2. Archival Record Location: <i>C:\Users\kdefranc\OneDrive - Environmental Protection Agency (EPA)\Illinois\Vantage Oleochemicals\MONITORING\FLIR-05-25-22</i>
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Image Number	File Name	Date and Time (incl. Time zone and DST)	Latitude and Longitude	Description of Image
1	MOV_0303	05/25/2022	41.812411, -87.65516	Plume from Manhole A, B, and C at the intersection of S Racine Ave and 45 th Street
2	MOV_0304	05/25/2022		Accidental save- video of nothing; lens cap on.
3	MOV_0306	05/25/2022	41.81154, -87.65524	Plume from Manhole D

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APPENDIX B: FIELD MEASUREMENT DATA

Manhole ID (designated by Inspectors)	Lat.	Long.	Benzene reading from Tiger Select PID (ppm)	Total hydrocarbon reading (TVA) (ppm)	Temperature (FLIR) (°F)
A (slotted manhole)	41.812411	-87.65516	3.3	300	92-93
B	41.812398	-87.65524	3.7	278	92-93
C	41.812345	-87.65529	3.4	No measurement taken	
D	41.81154	-87.65524	25.8	1508	
E	41.81296	-87.5497	2.5	No measurement taken	