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March 4, 2026

Illinois Environmental Protection Agency
Bureau of Air
Air Quality Planning Section (#39)
2520 West Iles Avenue
Springfield, IL 62704

Attn: Annual Emission Report

Re: Annual Emissions Report, Reporting Year 2025
Shell Oil Products US
Roxana Source, I.D. No. 119090AAO

To Whom It May Concern:

AECOM Technical Services, Inc. (AECOM), on behalf of Shell Oil Products US, is submitting the enclosed Annual Emissions Report for activities at the Roxana Site. If you have any questions or need any additional information, please contact Wendy Pennington (314-452-8929) or via email at wendy.pennington@aecom.com.

Sincerely,
AECOM

Wendy Pennington, PE
Project Manager

Enclosures: Annual Emission Report, Reporting Year 2025

cc: Mr. Leroy Bealer, Shell Oil Products US
Project File

Illinois Environmental Protection Agency
Division of Air Pollution Control
DAPC - ANNUAL AIR EMISSIONS REPORT - 2025

119090AAO - Shell Oil Products US

- SOURCE DATA -

SOURCE IDS AND LOCATION

AIRS:	17-119-0044	IEPA USE ONLY	SIC 1: 4613	NAICS 1: 486910
FINDS:		IEPA USE ONLY	SIC 2:	NAICS 2:
FEIN:	522074528		SIC 3:	NAICS 3:
D&B:			SIC 4:	NAICS 4:
LATITUDE:	38:50:42.3168		SIC 5:	NAICS 5:
LONGITUDE:	90:04:34.0752		SIC 6:	NAICS 6:

SOURCE ADDRESS

Shell Oil Products US (SOPUS)
Chaffer St. and 8th St.
Roxana, IL 62084

CONTACT: Leroy Bealer
PHONE: 484-632-7955
Fax:
E-mail: leroy.bealer@shell.com

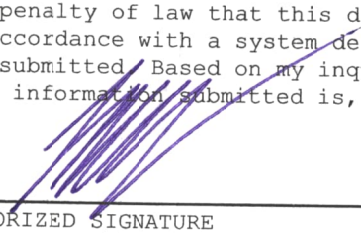
ANNUAL EMISSION REPORT MAILING ADDRESS

AECOM
100 N. Broadway 20th Fl
St. Louis, MO 63102

CONTACT: Samuel Fisher
PHONE: 314-296-1969
FAX:
E-Mail: samuel.fisher@aecom.com

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44 (h))

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.



AUTHORIZED SIGNATURE

2/17/2026
DATE

Leroy Bealer, Senior Program Manager
TYPED OR PRINTED NAME AND TITLE

484-632-7955
TELEPHONE NUMBER

The Illinois EPA is authorized to require, and you must disclose, the information on this form pursuant to 35 Ill. Adm. Code 201.302 (a,b) and 254. It is not necessary to use this form in providing the information. Failure to disclose the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/24-45.

119090AAO - Shell Oil Products US

- ANNUAL SOURCE EMISSIONS -

POLLUTANT CODE	SOURCE REPORTED EMISSIONS FOR 2025 (TONS/YEAR)	EMISSIONS REPORTED FOR 2024 (TONS/YEAR)	IEPA 2025 ESTIMATED EMISSIONS (TONS/YEAR)
CO	1.897404	0.833215	0.421949
CO_2	2657.427196	1166.967529	602.784000
Methane	0.050935	0.022367	0.011553
N_2O	0.048720	0.021395	0.011051
NH_3	0.070865	0.031120	0.016074
NO_X	2.258814	0.991923	0.502320
Part	0.171670	0.075387	0.038176
PM_{10}	0.171670	0.075387	0.038176
$PM_{2.5}$	0.171670	0.075387	0.038176
SO_2	0.013553	0.005952	0.003014
VOM	1.251603	1.676245	1.499812

119090AAO - Shell Oil Products US

- PERMIT LISTING -

PERMIT NUMBER	TYPE OF PERMIT	OPERATION NAME	STATUS	STATUS DATE	EXPIRES
12040025	FESOP	Treatment of Contaminated Soil Vapor	GRANTED	05-03-2022	10-05-2031
22020023	CONSTRUCTION	Steam Enhanced Extraction System (SEE)	EXPIRED	05-03-2022	05-03-2023

119090AAO - Shell Oil Products US

- FUEL COMBUSTION DATA -

POINT 0003 - Natural gas combustion of RTO/SVE/SEE

PERMIT: 12040025

BEGAN OPERATION: 01/2012

CEASED OPERATION: /

SCC: 40290013

MODE 01 - Natural gas-fired

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 1.47 % MAR - MAY: 15.03 %

BEGAN OPERATION: ~~06/2011~~ 01/2012 JUN - AUG: 28.33 % SEP - NOV: 55.17 %

CEASED OPERATION:

FUEL TYPE: 1 NATURAL GAS

INPUT (MMBTU/HR): ~~28.1~~ 3

HEAT CONTENT: Natural Gas 1,000 Btu/ft3

SULFUR CONTENT (%):

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: ~~MILLION CUBIC FEET BURNED~~ MILLION BTU BURNED

UNITS: ~~MILLION CUBIC FEET BURNED~~ MILLION BTU BURNED

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:	24.0	HOURS/DAY:	24.0
DAYS/WEEK:	7.0	DAYS/WEEK:	7.0
WEEKS/YEAR:	51	WEEKS/YEAR:	12
HOURS/YEAR:	8,512	HOURS/YEAR:	2,038
		START TIME:	00:00
		END TIME:	23:59
RATE/HR:	4.79	RATE/HR:	5.66

119090AAO - Shell Oil Products US

- FUEL COMBUSTION DATA -

POINT 0003 - Natural gas combustion of RTO/SVE/SEE PERMIT: 12040025

BEGAN OPERATION: 01/2012

CEASED OPERATION: /

SCC: 40290013

MODE 01 - Natural gas-fired

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3	84	84 lbs/10^6scf	~~0.1092~~	0.4020
CO_2	3	3	120,000	120000 lbs/10^6scf	~~156~~	563.0487
Methane	3	3	2.3	2.3 lbs/10^6scf	~~0.00299~~	0.0108
N_2O	3	3	2.2	2.2 lbs/10^6scf	~~0.00286~~	0.0103
NH_3	3	3	3.2	3.2 lbs/10^6scf	~~0.00416~~	0.0150
NO_X	3	3	100	100 lbs/10^6scf	~~0.13~~	0.4786
PART	3	3	7.6	7.6 lbs/10^6scf	~~0.00988~~	0.0364
PM_{10}	3	3	7.6	7.6 lbs/10^6scf	~~0.00988~~	0.0364
$PM_{2.5}$	3	3	7.6	7.6 lbs/10^6scf	~~0.00988~~	0.0364
SO_2	3	3	0.6	0.6 lb/10^6scf	~~0.00078~~	0.0029
~~VOM~~*	~~3~~	NA	~~5.5~~	NA lbs/10^6scf	~~0.00715~~	NA

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NO_X	3	3	100	100 lbs/10^6scf	~~0.13~~	0.5663
~~VOM~~*	~~3~~	NA	~~5.5~~	NA lbs/10^6scf	~~0.00715~~	NA

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0003 CAPTURE EFFICIENCY: 100.00 % 100.00 %

*VOM emissions from combustion are accounted for in the SVE emissions on page 9.

119090AAO - Shell Oil Products US

- FUEL COMBUSTION DATA -

POINT 0003 - Soil vapor combustion of RTO/SVE/SEE

PERMIT: 12040025

BEGAN OPERATION: / 01/2012

CEASED OPERATION: /

SCC: 40290013

MODE 02 - Soil Vapor Combustion

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 30.95 % MAR - MAY: 27.35 %

BEGAN OPERATION: / 01/2012 JUN - AUG: 21.72 % SEP - NOV: 19.98 %

CEASED OPERATION: /

FUEL TYPE: 9 OTHER GASEOUS FUEL-SOIL VAPORS

HEAT CONTENT: Soil Vapors 21,070 Btu/lb

INPUT (MMBTU/HR):

SULFUR CONTENT (%):

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: MILLION BTU BURNED

UNITS: MILLION BTU BURNED

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:	24.0	HOURS/DAY:	24.0
DAYS/WEEK:	7.0	DAYS/WEEK:	7.0
WEEKS/YEAR:	51	WEEKS/YEAR:	12
HOURS/YEAR:	8,512	HOURS/YEAR:	2,038
		START TIME:	00:00
		END TIME:	23:59
RATE/HR:	0.52	RATE/HR:	0.47

119090AAO - Shell Oil Products US

- FUEL COMBUSTION DATA -

POINT 0003 - Soil vapor combustion of RTO/SVE/SEE PERMIT: 12040025

BEGAN OPERATION: / 01/2012

CEASED OPERATION: /

SCC: 40290013

MODE 02 - Soil Vapor Combustion

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO		3		84 lbs/10^6scf		0.0438
CO_2		3		120,000 lbs/10^6scf		61.3248
Methane		3		2.3 lbs/10^6scf		0.0012
N_2O		3		2.2 lbs/10^6scf		0.0011
NH_3		3		3.2 lbs/10^6scf		0.0016
NO_X		3		100 lbs/10^6scf		0.0521
PM		3		7.6 lbs/10^6scf		0.0040
PM_{10}		3		7.6 lbs/10^6scf		0.0040
$PM_{2.5}$		3		7.6 lbs/10^6scf		0.0040
SO_2		3		0.6 lb/10^6scf		0.0003
~~VOM~~*		NA		NA lbs/10^6scf		NA

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NO_X		3		100 lbs/10^6scf		0.05

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0003 CAPTURE EFFICIENCY: 100.00 %

*VOM emissions from combustion are accounted for in the SVE emissions on page 9.

119090AAO - Shell Oil Products US

- OTHER SOURCE DATA -

POINT 001 - Soil vapor extraction system (SVE) and steam enhanced extraction system (SEE) system with RTO control

PERMIT: 12040025

BEGAN OPERATION: ~~05/2011~~ 01/2012

CEASED OPERATION: /

SCC: 50410310

MODE: 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 24.92 % MAR - MAY: 25.53 %

JUN - AUG: 23.94 % SEP - NOV: 25.61 %

BEGAN OPERATION: ~~12/2010~~ 01/2012

CEASED OPERATION: /

UNITS: ~~SCFM~~ HOURS OPERATED

UNITS: ~~SCFM~~ HOURS OPERATED

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:	24.0	HOURS/DAY:	24.0
DAYS/WEEK:	7.0	DAYS/WEEK:	7.0
WEEKS/YEAR:	51	WEEKS/YEAR:	12
HOURS/YEAR:	8,512	HOURS/YEAR:	2,038
		START TIME:	00:00
		END TIME:	23:59
RATE/HR:	NA*	RATE/HR:	NA*

*The rate/hr is not applicable because emissions are estimated using a measured emissions rate (lb/hr) and the system operating hours.

119090AAO - Shell Oil Products US

- OTHER SOURCE DATA -

POINT 001 - Soil vapor extraction system (SVE) and steam enhanced extraction system (SEE) system with RTO control PERMIT: 12040025

BEGAN OPERATION: ~~05/2011~~ 01/2012
CEASED OPERATION: SCC: 50410310

MODE: 01 -

POLLUTANT	METHOD		EMISSION FACTOR		EMISSION RATE (LB/HR)	
CODE	IEPA	REP	IEPA	REPORTED	IEPA	REPORTED
VOM	~~2~~	1		NA*	~~0.380999~~	0.29

POLLUTANT	METHOD		EMISSION FACTOR		OZONE SEASON EMISSION RATE (LB/HR)	
CODE	IEPA	REP	IEPA	REPORTED	IEPA	REPORTED
VOM	~~OE~~	1		NA*	~~0.380999~~	0.24

CAPTURING CONTROLS:
CONTROL 0001 CAPTURE EFFICIENCY: 100.00 % ~~100.00 %~~
CAPTURING STACKS:
STACK 0003

*The rate/hr is not applicable because emissions are estimated using a measured emissions rate (lb/hr) and the system operating hours.

119090AAO - Shell Oil Products US

- CONTROL DEVICE DATA -

CONTROL 0001 - Regenerative Thermal Oxidizer (RTO) PERMIT: 12040025

BEGAN OPERATION: ~~06/2011~~ 01/2012

CEASED OPERATION: / CONTROL CODE: 319

DESCRIPTION CORRECTION:

REMOVAL EFFICIENCY

POLLUTANT	ANNUAL OPERATION EFFICIENCY IEPA	ANNUAL OPERATION EFFICIENCY REPORTED	ANNUAL OPERATION METHOD IEPA	ANNUAL OPERATION METHOD REPORTED	PEAK OZONE SEASON OPERATION EFFICIENCY IEPA	PEAK OZONE SEASON OPERATION EFFICIENCY REPORTED	PEAK OZONE SEASON OPERATION METHOD IEPA	PEAK OZONE SEASON OPERATION METHOD REPORTED
VOM	~~97.00 %~~	99.3%*		1		99.3%		1

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK	0001**	(SVE)	CAPTURE EFFICIENCY:	~~33.34 %~~	100.00 %
STACK	0003	(RTO)	CAPTURE EFFICIENCY:	~~33.33 %~~	100.00 %
STACK	0004	(SEE)	CAPTURE EFFICIENCY:	~~33.33 %~~	100.00 %

*The RTO was tested for VOM destruction efficiency on June 25 and June 26, 2013.

**100% of SVE system vapor stream (Point 0001) is piped directly into RTO (Control 0001; Stack 0003).
SVE system does not have its own stack distinct from RTO stack.

119090AAO - Shell Oil Products US

- STACK DATA -

STACK		DIAMETER (FT)		HEIGHT (FT)		FLOW RATE (ACFM)		TEMPERATURE (°F)	
0001*	-	Soil vapor extraction (SVE) system stack							
		~~0.74~~		~~18~~		~~1,020~~		~~104~~	
0003	-	Regenerative Thermal Oxidizer (RTO)							
		2.50	2.5	~~19~~	18.5	10,000	10,000	200	200
0004	-	Steam Enhanced Extraction (SEE) System							
		2.00	2.00	~~12~~	13	7,000	7,000	400	400

*100% of SVE system vapor stream (Point 0001) is piped directly into RTO (Control 0001; Stack 0003).
SVE system does not have its own stack distinct from RTO stack.