EPA-R2-2023-001056: PAULSBORO REFINING CO LLC, (EPA Registry Id: 110022294569)

Emissions Data

Program	Pollutant Type	Pollutant	Units	Trend	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
GHG		Carbon dioxide	MTCO2e		1,666,195.00	1,698,982.00	1,693,165.30	1,694,333.80	1,702,138.10	1,772,775.50	1,691,200.40	1,636,098.80	1,345,206.10	653,390.80
GHG		Methane	MTCO2e	, 2015 **8366.25** Methane	8,573.50	8,076.25	8,183.00	8,366.25	8,512.75	9,372.25	9,363.00	9,412.00	8,491.75	4,256.00
GHG		Nitrous oxide	MTCO2e		6,398.06	6,333.10	6,294.95	6,516.37	6,369.45	6,640.93	6,497.89	6,606.96	5,000.14	2,047.86
NEI	HAP/VOC	1,3-Butadiene	Pounds				68.33			71.83				
NEI	HAP/VOC	Acetaldehyde	Pounds	HAP/VOC, 2017 **25.71** Acetaldehyde						25.71				
NEI	HAP/VOC	Acrolein	Pounds				26.31			25.85				
NEI	CAP	Ammonia	Pounds				4,362.20			4,582.80				
NEI	HAP	Arsenic	Pounds				9.07			9.54				
NEI	HAP/VOC	Benzene	Pounds				6,224.08			5,529.75				
NEI	HAP	Beryllium	Pounds	HAP, 2017 **4** Beryllium			4.32			4.00				

Program	Pollutant Type	Pollutant	Units	Trend	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
NEI	HAP	Cadmium	Pounds				18.00			22.52				
NEI	CAP	Carbon monoxide	Pounds				260,446.40			283,662.00				
NEI	HAP/VOC	Carbonyl sulfide	Pounds				885.00			1,196.00				
NEI	HAP	Chromium(III)	Pounds				13.15			13.91				
NEI	HAP	Chromium(VI)	Pounds	HAP, 2014 6.78 Chromium(VI)			6.78			7.16				
NEI	HAP	Cobalt	Pounds	HAP, 2017 21 Cobalt						21.00				
NEI	HAP/VOC	Cumene	Pounds				920.00			714.00				
NEI	HAP	Cyanide	Pounds				193,000.00							
NEI	HAP/VOC	Ethylbenzene	Pounds	HAP/VOC, 2017 6556 Ethylbenzene			5,616.00			6,556.00				
NEI	HAP/VOC	Formaldehyde	Pounds				2,393.61			2,610.81				
NEI	HAP/VOC	Hexane	Pounds				7,376.00			7,740.00				
NEI	HAP	Hydrochloric acid	Pounds				1,766.33			1,881.03				

Program	Pollutant Type	Pollutant	Units	Trend	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
NEI	HAP	Hydrofluoric acid	Pounds				.00			3.00				
NEI	HAP	Hydrogen cyanide	Pounds							248,237.00				
NEI	OTH	Hydrogen sulfide	Pounds				4,969.00			7,354.00				
NEI	CAP	Lead	Pounds				.20			.00				
NEI	HAP	Mercury	Pounds				5.62			5.90				
NEI	HAP/VOC	Methanol	Pounds				.00			30.00				
NEI	HAP/VOC	Naphthalene	Pounds				1,682.00			1,928.00				
NEI	HAP	Nickel	Pounds				4.46			20.41				
NEI	CAP	Nitrogen oxides	Pounds				1,297,238.20			1,386,962.00				
NEI	HAP/VOC	Polycyclic aromatic hydrocarbons	Pounds				6.30			7.00				
NEI	CAP	Primary PM10, filterable portion only	Pounds				296,022.20							
NEI	CAP	Primary PM10 (filterables and	Pounds				425,797.00			578,746.00				

Program	Pollutant Type	Pollutant	Units	Trend	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
		condensibles)												
NEI	CAP	Primary PM2.5, filterable portion only	Pounds				296,020.60							
NEI	CAP	Primary PM2.5 (filterables and condensibles)	Pounds				425,795.40			578,744.40				
NEI	CAP	Primary PM condensible portion, less than 1 micron	Pounds				129,774.80							
NEI	CAP	Sulfur dioxide	Pounds				112,896.20			47,702.40				
NEI	HAP	Tetrachloroethylene	Pounds				5.00			5.00				
NEI	HAP/VOC	Toluene	Pounds				21,166.00			20,931.00				
NEI	CAP/VOC	Volatile organic compounds	Pounds				644,574.20			666,386.80				
NEI	HAP/VOC	Xylene	Pounds				13,585.00			15,830.00				
TRI		1,2,4-Trimethylbenzene	Pounds		2,741.00	2,720.00	2,597.00	2,631.00	2,808.00	2,902.00	2,792.00	2,843.00	2,246.00	978.00

Program	Pollutant Type	Pollutant	Units	Trend	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
TRI		1,3-Butadiene	Pounds		110.00	111.00	156.00	175.00	166.00	162.00	91.00	90.00	78.00	55.00
TRI		Ammonia	Pounds		10,772.00	4,243.00	4,418.00	4,657.00	4,222.00	4,754.00	4,269.00	4,506.00	2,468.00	.00
TRI		Benzene	Pounds		8,159.00	11,728.00	11,958.00	12,598.00	12,272.00	11,879.00	6,557.00	6,718.00	5,677.00	4,063.00
TRI		Benzo[ghi]perylene	Pounds		.60	.60	.60	1.00	1.00	1.00	1.00	1.00	.28	.01
TRI		Cobalt	Pounds									13.00	2.08	
TRI		Cobalt compounds	Pounds			19.00		21.00	20.00	21.00				
TRI		Cumene	Pounds		775.00	734.00	920.00	590.00	554.00	714.00	558.00	640.00	473.00	171.00
TRI		Cyclohexane	Pounds		6,745.00	2,381.00	2,520.00	2,733.00	2,718.00	2,576.00	1,204.00	1,158.00	1,273.00	363.00
TRI		Dioxin and dioxin-like compounds -- TRI	Pounds		.00	.00								
TRI		Ethylbenzene	Pounds		5,686.00	6,751.00	5,616.00	5,634.00	4,777.00	6,556.00	5,654.00	4,254.00	3,188.00	1,808.00
TRI		Ethylene	Pounds		6,836.00	7,297.00	5,994.00	7,984.00	8,912.00	8,986.00	9,566.00	8,446.00	7,366.00	6,318.00
TRI		Hexane	Pounds		4,142.00	4,244.00	7,376.00	8,491.00	8,466.00	7,740.00	7,724.00	7,761.00	4,226.00	2,237.00
TRI		Hydrochloric acid	Pounds		1,587.00	1,885.00	1,767.00	2,212.00	1,807.00	2,136.00	1,890.00	1,869.00	1,196.00	

Program	Pollutant Type	Pollutant	Units	Trend	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
TRI		Hydrofluoric acid	Pounds		298.00	290.00	.00	.00	40.00	3.00	29.00	29.00	5.50	
TRI		Hydrogen cyanide	Pounds		233,640.00	244,870.00	193,000.00	239,360.00	200,700.00	248,237.00	225,260.00	248,237.00	132,425.00	
TRI		Hydrogen sulfide	Pounds		7,737.00	5,009.00	4,969.00	7,252.00	7,735.00	7,354.00	6,460.00	5,879.00	2,411.00	477.00
TRI		Lead compounds	Pounds		94.20	91.30	9.00	10.00	6.00	6.00	.00	.00	2.43	.00
TRI		Mercury compounds	Pounds		10.20	10.20	10.40	11.94	11.10	11.80	5.36	5.77	3.60	.07
TRI		Methanol	Pounds		.00	.00	.00	.00	.00	30.00	30.00	30.00	30.00	30.00
TRI		Molybdenum trioxide	Pounds					35.00						
TRI		Naphthalene	Pounds		4,349.00	1,893.00	1,682.00	1,794.00	1,935.00	1,928.00	1,251.00	1,357.00	1,224.00	655.00
TRI		Nickel compounds	Pounds	, 2014 45 Nickel compounds	50.00	45.00	45.00	65.00	65.00	69.00	20.00	219.00	49.00	24.00
TRI		Polycyclic aromatic compounds -- TRI	Pounds		6.70	6.30	6.30	6.40	6.80	7.20	1.30	.20	.80	.25
TRI		Propylene	Pounds		3,249.00	2,973.00	2,966.00	3,249.00	3,429.00	3,590.00	1,836.00	1,904.00	1,565.00	1,219.00
TRI		Sulfuric acid	Pounds		27,605.00	25,346.00	30,434.00	30,332.00	105,308.00	118,051.00	83,714.00	64,917.00	54,342.00	

Program	Pollutant Type	Pollutant	Units	Trend	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
TRI		Tetrachloroethylene	Pounds		5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	
TRI		Toluene	Pounds		19,956.00	22,233.00	21,166.00	20,675.00	16,941.00	20,931.00	19,997.00	22,220.00	20,242.00	13,307.00
TRI		Vanadium compounds	Pounds		54.00	50.00	48.00	54.00	56.00	59.00	5.00	5.00	3.00	.00
TRI		Xylene	Pounds		14,395.00	15,975.00	13,585.00	12,971.00	13,615.00	15,830.00	13,770.00	13,590.00	11,179.00	7,825.00
TRI		Zinc compounds	Pounds		594.00	542.00	542.00	595.00	630.00	658.00	700.00	607.00	489.00	310.00

The Air Pollutant Report presents ten years of EPA air emissions data from the National Emissions Inventory (NEI), Greenhouse Gas Reporting Program, Toxics Release Inventory, and Clean Air Markets Programs for a selected facility. Emissions are presented by pollutant for each program and each year that values are available. Each of these programs is governed by a different regulatory authority and performs a distinct function. The NEI program includes both facility-reported and government-augmented emissions, while the other programs include exclusively emissions reported by facilities. While each program is distinct, there is some overlap in pollutants covered by the different programs. Where the same pollutant exists in multiple programs, the Air Pollutant Report will list each program's emissions estimates. Emissions values reported under multiple programs are not exclusive and should not be added together. Due to programmatic differences in calculation methods and how "facility" is defined, there may be significant discrepancies in emissions values between programs. By consolidating emissions data from four different EPA programs into one report, the Air Pollutant Report provides a single source for users looking to understand a facility's full suite of pollutants and the range of possible emissions associated with a given pollutant depending on the emissions program.