



2023 CONTAMINANT SUMMARY REPORT

June 20, 2024

11:32 am

CN : CN600127468

Organization : VALERO REFINING-TEXAS LP

RN : RN100219310

Account : HG0130C

Site : HOUSTON REFINERY

Last EI Date : 12/31/2023

CRITERIA EMISSIONS TOTALS

Pollutant Class	Annual (TPY)	Ozone (PPD)	SMSS (TPY)	Emiss Event (TPY)	EE/SMSS (TPY)
PM2.5	100.0439	549.4349	0.0000	0.0000	0.0000
VOC	73.5652	435.1780	0.0000	1.7851	1.7851
CO	132.8965	738.9570	0.0000	0.9908	0.9908
NOX	148.3662	826.2268	0.0000	0.6263	0.6263
SO2	15.1425	91.2045	0.0000	1.2679	1.2679
PB	0.0220	0.1203	0.0000	0.0000	0.0000
PM10	127.1068	698.9990	0.0000	0.0000	0.0000

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Contam	Contam Name	Annual (TPY)	Ozone (PPD)	SMSS (TPY)	Emiss Event (TPY)	EE/SMSS (TPY)
10000	PART-U	138.2373	760.6904	0.0000	0.8671	0.8671
11160	HYDROCHLORIC ACID	0.0000	0.0000	0.0000	0.0000	0.0000
11175	SULFURIC ACID	0.1106	0.6059	0.0000	0.0000	0.0000
11905	ANTHRACENE	0.0008	0.0044	0.0000	0.0000	0.0000
14023	ANTIMONY AND COMPOUNDS	0.0233	0.1281	0.0000	0.0000	0.0000
14036	ARSENIC AND COMPOUNDS	0.0061	0.0332	0.0000	0.0000	0.0000
14050	BARIUM - BA	0.0449	0.2466	0.0000	0.0000	0.0000
14070	BERYLLIUM-BE	0.0018	0.0096	0.0000	0.0000	0.0000
14110	CADMIUM-CD	0.0118	0.0649	0.0000	0.0000	0.0000
14160	CHROMIUM-CR	0.0000	0.0000	0.0000	0.0000	0.0000
14163	CHROMIUM SOLUBLE SALTS	0.0000	0.0000	0.0000	0.0000	0.0000
14164	CHROMIUM AND COMPOUNDS	0.0151	0.0828	0.0000	0.0000	0.0000
14170	COBALT-CO	0.0000	0.0000	0.0000	0.0000	0.0000
14171	COBALT AND COMPOUNDS	0.0141	0.0776	0.0000	0.0000	0.0000
14190	COPPER-CU	0.0000	0.0000	0.0000	0.0000	0.0000
14194	COPPER COMPOUNDS	0.0191	0.1050	0.0000	0.0000	0.0000
14319	LEAD AND COMPOUNDS	0.0220	0.1203	0.0000	0.0000	0.0000
14350	MANGANESE-MN	0.0335	0.1843	0.0000	0.0000	0.0000
14360	MERCURY-HG	0.0020	0.0107	0.0000	0.0000	0.0000
14380	MOLYBDENUM-MO	0.7837	4.3128	0.0000	0.0000	0.0000
14390	NICKEL-NI	0.0328	0.1797	0.0000	0.0000	0.0000
14391	NICKEL AND COMPOUNDS	0.0235	0.1295	0.0000	0.0000	0.0000
14590	SELENIUM-SE	0.0194	0.1063	0.0000	0.0000	0.0000
14760	VANADIUM	0.0095	0.0524	0.0000	0.0000	0.0000
14780	ZINC-ZN	0.0000	0.0000	0.0000	0.0000	0.0000
14785	ZINC COMPOUNDS	0.0036	0.0194	0.0000	0.0000	0.0000
20000	PM10 PART-U	127.1068	698.9990	0.0000	0.0000	0.0000
39999	TOTAL PM2.5 PARTICULATE	100.0439	549.4349	0.0000	0.0000	0.0000



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Contam	Contam Name	Annual (TPY)	Ozone (PPD)	SMSS (TPY)	Emiss Event (TPY)	EE/SMSS (TPY)
50001	VOC-UNCLASSIFIED	24.4750	144.8253	0.0000	1.2692	1.2692
50002	POLYCYCLIC ORGANIC MATTER	0.0004	0.0021	0.0000	0.0000	0.0000
51400	ALCOHOLS-U	0.0000	0.0000	0.0000	0.0000	0.0000
51455	PROPPOXYETHANOL 2	0.0000	0.0000	0.0000	0.0000	0.0000
51530	METHANOL	0.0004	0.0022	0.0000	0.0000	0.0000
51535	CRESOL	0.0004	0.0022	0.0000	0.0000	0.0000
51539	M-CRESOL	0.0013	0.0071	0.0000	0.0000	0.0000
51550	PHENOL	0.0045	0.0246	0.0000	0.0000	0.0000
51590	TERT BUTYL ALCOHOL	0.0000	0.0000	0.0000	0.0000	0.0000
51620	ACETALDEHYDE	0.0028	0.0152	0.0000	0.0000	0.0000
51640	ACROLEIN	0.0002	0.0010	0.0000	0.0000	0.0000
51680	FORMALDEHYDE	0.3861	2.1237	0.0000	0.0000	0.0000
51750	ALKENES-U	0.4983	2.7304	0.0000	0.0000	0.0000
51752	BUTENE CIS-2	0.0000	0.0000	0.0000	0.0000	0.0000
51810	ALKANES-U	0.0000	0.0000	0.0000	0.0000	0.0000
51820	ACETYLENE	0.0271	0.1485	0.0000	0.0000	0.0000
52400	AROMATICS-U	0.0802	0.4395	0.0000	0.0000	0.0000
52416	TRIMETHYL BENZENE, 1,2,4-	0.0796	0.4360	0.0000	0.0000	0.0000
52417	TRIMETHYL BENZENE, 1,2,3-	0.0000	0.0000	0.0000	0.0000	0.0000
52418	TRIMETHYL BENZENE, 1,3,5-	0.0057	0.0312	0.0000	0.0000	0.0000
52420	BENZENE	0.6691	3.6766	0.0000	0.0000	0.0000
52424	DICHLOROBENZENE MIXED ISOMERS	0.0000	0.0000	0.0000	0.0000	0.0000
52428	TRIMETHYL BENZENE	0.0633	0.3468	0.0000	0.0000	0.0000
52440	CUMENE	0.0076	0.0415	0.0000	0.0000	0.0000
52446	BENZO K FLUORANTHENE	0.0000	0.0000	0.0000	0.0000	0.0000
52450	ETHYL BENZENE	0.2669	1.4645	0.0000	0.0000	0.0000
52460	NAPHTHALENE	0.0412	0.2257	0.0000	0.0000	0.0000
52463	ACENAPHTHYLENE	0.0047	0.0258	0.0000	0.0000	0.0000
52470	POLYNUCLEAR AROMATICS	0.3597	1.9703	0.0000	0.0000	0.0000
52475	BIPHENYL	0.0653	0.3576	0.0000	0.0000	0.0000
52477	FLUORANTHENE	0.0006	0.0033	0.0000	0.0000	0.0000
52478	PYRENE	0.0020	0.0110	0.0000	0.0000	0.0000
52480	STYRENE	0.0032	0.0176	0.0000	0.0000	0.0000
52490	TOLUENE	1.5859	8.7125	0.0000	0.0000	0.0000
52510	XYLENE-U	0.7335	4.0230	0.0000	0.0000	0.0000
52512	META-XYLENE	0.0621	0.3403	0.0000	0.0000	0.0000
52514	ORTHO-XYLENE	0.0120	0.0658	0.0000	0.0000	0.0000
52516	PARA-XYLENE	0.0253	0.1386	0.0000	0.0000	0.0000



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Contam	Contam Name	Annual (TPY)	Ozone (PPD)	SMSS (TPY)	Emiss Event (TPY)	EE/SMSS (TPY)
52855	METHYLHEPTANE,3-	0.0000	0.0000	0.0000	0.0000	0.0000
52878	METHYL TERT-BUTYL ETHER	0.0049	0.0268	0.0000	0.0000	0.0000
53125	METHYL BROMIDE	0.0000	0.0000	0.0000	0.0000	0.0000
53471	FLUOROTRICHLOROMETHANE	0.0000	0.0000	0.0000	0.0000	0.0000
54065	METHYL ETHYL KETONE	0.0000	0.0000	0.0000	0.0000	0.0000
55150	1,3- BUTADIENE	0.4112	2.2600	0.0000	0.0001	0.0001
55175	BUTENE	2.5273	13.8629	0.0000	0.0485	0.0485
55176	1-BUTENE	0.0684	0.3748	0.0000	0.0000	0.0000
55177	CIS-2-BUTENE	0.2409	1.6590	0.0000	0.0020	0.0020
55178	ISOBUTENE	0.0000	0.0000	0.0000	0.0000	0.0000
55179	TRANS-2-BUTENE	0.2941	2.0735	0.0000	0.0033	0.0033
55225	DICYCLOPENTADIENE	0.0000	0.0000	0.0000	0.0000	0.0000
55300	ETHYLENE	0.4861	2.6646	0.0000	0.0000	0.0000
55400	ISOBUTYLENE	0.1768	0.9684	0.0000	0.0000	0.0000
55450	ISOPRENE	0.0039	0.0214	0.0000	0.0000	0.0000
55475	BUTENE 2-METHYL-2	0.0000	0.0000	0.0000	0.0000	0.0000
55476	BUTENE 2-METHYL-1	0.0000	0.0000	0.0000	0.0000	0.0000
55527	CIS-2-PENTENE	0.0000	0.0000	0.0000	0.0000	0.0000
55528	TRANS-2-PENTENE	0.0000	0.0000	0.0000	0.0000	0.0000
55600	PROPYLENE	2.4143	15.4171	0.0000	0.0097	0.0097
56050	CYCLOHEXANE	0.1416	0.7778	0.0000	0.0000	0.0000
56100	CYCLOPENTANE	0.0000	0.0000	0.0000	0.0000	0.0000
56150	METHYLCYCLOHEXANE	0.1061	0.5814	0.0000	0.0000	0.0000
56200	METHYLCYCLOPENTANE	0.0000	0.0000	0.0000	0.0000	0.0000
56524	2,3-DIMETHYLBUTANE	0.0000	0.0000	0.0000	0.0000	0.0000
56526	DIMETHYL BUTANE 2,2	0.0000	0.0000	0.0000	0.0000	0.0000
56528	ISOHEXANE AKA 2-METHYLPENTANE	0.0000	0.0000	0.0000	0.0000	0.0000
56550	ETHANE	0.3353	1.8373	0.0000	0.0000	0.0000
56575	HEPTANE	0.0743	0.4071	0.0000	0.0000	0.0000
56576	HEPTANE ISOMERS	0.0979	0.5364	0.0000	0.0000	0.0000
56595	HEXANE BRANCHED ISOMER-U	0.0000	0.0000	0.0000	0.0000	0.0000
56600	HEXANE	0.0000	0.0000	0.0000	0.0000	0.0000
56601	METHYL PENTANE 3	0.0000	0.0000	0.0000	0.0000	0.0000
56605	TRIMETHYLPENTANE,2,3,4-	0.0000	0.0000	0.0000	0.0000	0.0000
56608	DIMETHYL PENTANE, 2,4-	0.0000	0.0000	0.0000	0.0000	0.0000
56610	2,2,4-TRIMETHYLPENTANE	0.0066	0.0366	0.0000	0.0000	0.0000
56625	ISOBUTANE	5.8857	46.5807	0.0000	0.0408	0.0408
56651	METHYLHEXANE, 3-	0.0000	0.0000	0.0000	0.0000	0.0000



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56672	ISO OCTENE	0.0000	0.0000	0.0000	0.0000	0.0000
56674	OCTANE	0.1004	0.5501	0.0000	0.0000	0.0000
56680	DECANE	0.1660	0.9096	0.0000	0.0000	0.0000
56681	DODECANE	0.0000	0.0000	0.0000	0.0000	0.0000
56683	UNDECANE	0.0000	0.0000	0.0000	0.0000	0.0000
56700	ISO PENTANE	0.0266	0.1458	0.0000	0.0000	0.0000
56703	NONANE	0.1044	0.5721	0.0000	0.0000	0.0000
56725	N BUTANE	2.3572	12.9161	0.0000	0.3859	0.3859
56730	N-HEXANE	0.3027	1.6607	0.0000	0.0000	0.0000
56750	PENTANE	0.0000	0.0000	0.0000	0.0000	0.0000
56751	2,2,4- TRIMETHYLPENTANE	0.1891	1.0360	0.0000	0.0000	0.0000
56752	N-PENTANE	0.1046	0.5731	0.0000	0.0000	0.0000
56775	PROPANE	3.1749	21.0822	0.0000	0.0256	0.0256
56780	1-PHENYLPROPANE	0.0000	0.0000	0.0000	0.0000	0.0000
58240	HYDROGEN CYANIDE GAS	36.0255	197.4000	0.0000	0.0000	0.0000
58241	CYANIDE AND COMPOUNDS	0.3196	1.7512	0.0000	0.0000	0.0000
58320	BENZO-A-PYRENE	0.0001	0.0005	0.0000	0.0000	0.0000
58650	CARBON DISULFIDE	0.3181	1.7430	0.0000	0.0000	0.0000
58775	CARBONYL SULFIDE	0.0160	0.0876	0.0000	0.0000	0.0000
59000	VOC GAS MIXTURE-U	0.0000	0.0000	0.0000	0.0000	0.0000
59001	CRUDE OIL	6.1715	34.1054	0.0000	0.0000	0.0000
59003	GASOLINE	2.0759	11.3748	0.0000	0.0000	0.0000
59005	KEROSENE	1.7251	9.4526	0.0000	0.0000	0.0000
59009	PETROLEUM DISTILLATE	0.0000	0.0000	0.0000	0.0000	0.0000
59010	ALKYLATE	0.0000	0.0000	0.0000	0.0000	0.0000
59011	PETROLEUM NAPHTHA	0.0000	0.0000	0.0000	0.0000	0.0000
59150	DIESEL	3.8171	20.9156	0.0000	0.0000	0.0000
59175	FCC FEED	0.0299	0.1638	0.0000	0.0000	0.0000
59200	FUEL OIL-U	0.0000	0.0000	0.0000	0.0000	0.0000
59230	RESIDUAL FUEL OIL	1.1501	6.3019	0.0000	0.0000	0.0000
59250	GAS OIL	5.7450	31.4795	0.0000	0.0000	0.0000
59270	LIQUIFIED PETROLEUM GAS	0.9761	5.3485	0.0000	0.0000	0.0000
59275	MINERAL SPIRITS	0.0000	0.0000	0.0000	0.0000	0.0000
59300	NAPHTHA	1.6383	8.9770	0.0000	0.0000	0.0000
59375	PROCESS FUEL GAS	0.0000	0.0000	0.0000	0.0000	0.0000
59425	REDUCED CRUDE	0.0000	0.0000	0.0000	0.0000	0.0000
59490	VACUUM BOTTOMS	0.6520	3.5726	0.0000	0.0000	0.0000
59866	PHENANTHRENE	0.0073	0.0400	0.0000	0.0000	0.0000



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70030	HYDROGEN	0.0000	0.0000	0.0000	0.0000	0.0000
70050	AMMONIA	14.8008	81.1500	0.0000	0.0000	0.0000
70110	CHLORINE	0.0862	0.4723	0.0000	0.0000	0.0000
70200	HYDROGEN CHLORIDE	0.0395	0.2164	0.0000	0.0000	0.0000
70300	HYDROGEN SULFIDE	0.1258	0.7359	0.0000	0.0179	0.0179
70400	NITROGEN OXIDES	148.3662	826.2268	0.0000	0.6263	0.6263
70403	NITROUS OXIDE	16.7986	92.3513	0.0000	0.0000	0.0000
70510	SULFUR DIOXIDE	15.1425	91.2045	0.0000	1.2679	1.2679
80000	OZONE	0.0001	0.0005	0.0000	0.0000	0.0000
80500	NITROGEN	0.0000	0.0000	0.0000	0.0000	0.0000
90300	CARBON MONOXIDE	132.8965	738.9570	0.0000	0.9908	0.9908



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11160	HYDROCHLORIC ACID	0.0000	0.0000	0.0000	0.0000	0.0000
11905	ANTHRACENE	0.0008	0.0044	0.0000	0.0000	0.0000
14023	ANTIMONY AND COMPOUNDS	0.0233	0.1281	0.0000	0.0000	0.0000
14036	ARSENIC AND COMPOUNDS	0.0061	0.0332	0.0000	0.0000	0.0000
14070	BERYLLIUM-BE	0.0018	0.0096	0.0000	0.0000	0.0000
14110	CADMIUM-CD	0.0118	0.0649	0.0000	0.0000	0.0000
14160	CHROMIUM-CR	0.0000	0.0000	0.0000	0.0000	0.0000
14163	CHROMIUM SOLUBLE SALTS	0.0000	0.0000	0.0000	0.0000	0.0000
14164	CHROMIUM AND COMPOUNDS	0.0151	0.0828	0.0000	0.0000	0.0000
14170	COBALT-CO	0.0000	0.0000	0.0000	0.0000	0.0000
14171	COBALT AND COMPOUNDS	0.0141	0.0776	0.0000	0.0000	0.0000
14319	LEAD AND COMPOUNDS	0.0220	0.1203	0.0000	0.0000	0.0000
14350	MANGANESE-MN	0.0335	0.1843	0.0000	0.0000	0.0000
14360	MERCURY-HG	0.0020	0.0107	0.0000	0.0000	0.0000
14390	NICKEL-NI	0.0328	0.1797	0.0000	0.0000	0.0000
14391	NICKEL AND COMPOUNDS	0.0235	0.1295	0.0000	0.0000	0.0000
14590	SELENIUM-SE	0.0194	0.1063	0.0000	0.0000	0.0000
50002	POLYCYCLIC ORGANIC MATTER	0.0004	0.0021	0.0000	0.0000	0.0000
51455	PROPROXYETHANOL 2	0.0000	0.0000	0.0000	0.0000	0.0000
51530	METHANOL	0.0004	0.0022	0.0000	0.0000	0.0000
51535	CRESOL	0.0004	0.0022	0.0000	0.0000	0.0000
51539	M-CRESOL	0.0013	0.0071	0.0000	0.0000	0.0000
51550	PHENOL	0.0045	0.0246	0.0000	0.0000	0.0000
51620	ACETALDEHYDE	0.0028	0.0152	0.0000	0.0000	0.0000
51640	ACROLEIN	0.0002	0.0010	0.0000	0.0000	0.0000
51680	FORMALDEHYDE	0.3861	2.1237	0.0000	0.0000	0.0000
52420	BENZENE	0.6691	3.6766	0.0000	0.0000	0.0000
52440	CUMENE	0.0076	0.0415	0.0000	0.0000	0.0000
52446	BENZO K FLUORANTHENE	0.0000	0.0000	0.0000	0.0000	0.0000
52450	ETHYL BENZENE	0.2669	1.4645	0.0000	0.0000	0.0000
52460	NAPHTHALENE	0.0412	0.2257	0.0000	0.0000	0.0000
52463	ACENAPHTHYLENE	0.0047	0.0258	0.0000	0.0000	0.0000
52470	POLYNUCLEAR AROMATICS	0.3597	1.9703	0.0000	0.0000	0.0000
52475	BIPHENYL	0.0653	0.3576	0.0000	0.0000	0.0000
52477	FLUORANTHENE	0.0006	0.0033	0.0000	0.0000	0.0000
52478	PYRENE	0.0020	0.0110	0.0000	0.0000	0.0000
52480	STYRENE	0.0032	0.0176	0.0000	0.0000	0.0000
52490	TOLUENE	1.5859	8.7125	0.0000	0.0000	0.0000



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52510	XYLENE-U	0.7335	4.0230	0.0000	0.0000	0.0000
52512	META-XYLENE	0.0621	0.3403	0.0000	0.0000	0.0000
52514	ORTHO-XYLENE	0.0120	0.0658	0.0000	0.0000	0.0000
52516	PARA-XYLENE	0.0253	0.1386	0.0000	0.0000	0.0000
52878	METHYL TERT-BUTYL ETHER	0.0049	0.0268	0.0000	0.0000	0.0000
53125	METHYL BROMIDE	0.0000	0.0000	0.0000	0.0000	0.0000
55150	1,3- BUTADIENE	0.4112	2.2600	0.0000	0.0001	0.0001
56600	HEXANE	0.0000	0.0000	0.0000	0.0000	0.0000
56610	2,2,4-TRIMETHYLPENTANE	0.0066	0.0366	0.0000	0.0000	0.0000
56730	N-HEXANE	0.3027	1.6607	0.0000	0.0000	0.0000
56751	2,2,4- TRIMETHYLPENTANE	0.1891	1.0360	0.0000	0.0000	0.0000
58240	HYDROGEN CYANIDE GAS	36.0255	197.4000	0.0000	0.0000	0.0000
58241	CYANIDE AND COMPOUNDS	0.3196	1.7512	0.0000	0.0000	0.0000
58320	BENZO-A-PYRENE	0.0001	0.0005	0.0000	0.0000	0.0000
58650	CARBON DISULFIDE	0.3181	1.7430	0.0000	0.0000	0.0000
58775	CARBONYL SULFIDE	0.0160	0.0876	0.0000	0.0000	0.0000
59866	PHENANTHRENE	0.0073	0.0400	0.0000	0.0000	0.0000
70110	CHLORINE	0.0862	0.4723	0.0000	0.0000	0.0000
70200	HYDROGEN CHLORIDE	0.0395	0.2164	0.0000	0.0000	0.0000
Total		42.1682	231.1147	0.0000	0.0001	0.0001