



# 2023 CONTAMINANT SUMMARY REPORT

June 24, 2024

3:59 pm

**CN :** CN603741463

**Organization :** FLINT HILLS RESOURCES CORPUS CHRISTI LLC

**RN :** RN102534138

**Account :** NE0120H

**Site :** EAST 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	26.0694	139.5557	0.0000	0.0428	0.0428
VOC	72.4178	422.6357	0.0000	0.7973	0.7973
CO	105.3882	562.3147	0.0000	8.4083	8.4083
NOX	99.7743	531.3580	0.0000	0.0082	0.0082
SO2	27.0378	159.3147	0.0000	2.0801	2.0801
PM10	29.1287	156.0403	0.0000	0.0428	0.0428

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Contam	Contam Name	Annual (TPY)	Ozone (PPD)	SMSS (TPY)	Emiss Event (TPY)	EE/SMSS (TPY)
10000	PART-U	30.7696	165.1168	0.0000	0.0428	0.0428
11905	ANTHRACENE	0.0033	0.0075	0.0000	0.0000	0.0000
20000	PM10 PART-U	29.1287	156.0403	0.0000	0.0428	0.0428
39999	TOTAL PM2.5 PARTICULATE	26.0694	139.5557	0.0000	0.0428	0.0428
50001	VOC-UNCLASSIFIED	8.3250	45.8428	0.0000	0.0367	0.0367
50002	POLYCYCLIC ORGANIC MATTER	0.0079	0.0425	0.0000	0.0000	0.0000
51129	1-PROPANOL, 2-METHOXY-ACETATE	0.0012	0.0115	0.0000	0.0000	0.0000
51405	BENZYL ALCOHOL	0.0019	0.0170	0.0000	0.0000	0.0000
51467	SULFOLANE	0.0000	0.0006	0.0000	0.0000	0.0000
51510	ISOPROPANOL	0.0018	0.0201	0.0000	0.0000	0.0000
51530	METHANOL	0.0000	0.0000	0.0000	0.0000	0.0000
51535	CRESOL	0.0088	0.0477	0.0000	0.0000	0.0000
51550	PHENOL	0.0062	0.0338	0.0000	0.0000	0.0000
51620	ACETALDEHYDE	0.0006	0.0028	0.0000	0.0000	0.0000
51640	ACROLEIN	0.0000	0.0003	0.0000	0.0000	0.0000
51680	FORMALDEHYDE	0.1006	0.5382	0.0000	0.0000	0.0000
51752	BUTENE CIS-2	0.0000	0.0000	0.0000	0.0047	0.0047
51820	ACETYLENE	0.0000	0.0000	0.0000	0.0000	0.0000
52202	METHYLDIETHANOLAMINE	0.0000	0.0000	0.0000	0.0184	0.0184
52252	DIETHANOLAMINE	0.0000	0.0000	0.0000	0.0110	0.0110
52266	2,4,6-TRIDIMETHYLAMINOMETHYL PHENOL	0.0002	0.0000	0.0000	0.0000	0.0000
52365	DIAMINOCYCLOHEXANE 1,3	0.0010	0.0114	0.0000	0.0000	0.0000
52400	AROMATICS-U	0.5725	3.1041	0.0000	0.0000	0.0000
52416	TRIMETHYL BENZENE, 1,2,4-	0.3551	2.1019	0.0000	0.0008	0.0008
52418	TRIMETHYL BENZENE, 1,3,5-	0.0029	0.0217	0.0000	0.0000	0.0000
52420	BENZENE	1.9353	11.7535	0.0000	0.0025	0.0025
52440	CUMENE	0.0362	0.2291	0.0000	0.0001	0.0001
52450	ETHYL BENZENE	0.4128	2.3980	0.0000	0.0003	0.0003
52460	NAPHTHALENE	0.0665	0.3821	0.0000	0.0000	0.0000



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52463	ACENAPHTHYLENE	0.0000	0.0000	0.0000	0.0000	0.0000
52475	BIPHENYL	0.0196	0.1096	0.0000	0.0000	0.0000
52477	FLUORANTHENE	0.0256	0.1381	0.0000	0.0000	0.0000
52478	PYRENE	0.0000	0.0000	0.0000	0.0000	0.0000
52480	STYRENE	0.0246	0.1341	0.0000	0.0000	0.0000
52490	TOLUENE	2.8054	16.9567	0.0000	0.0008	0.0008
52510	XYLENE-U	1.5242	8.1871	0.0000	0.0098	0.0098
52512	META-XYLENE	0.0600	0.4211	0.0000	0.0000	0.0000
52514	ORTHO-XYLENE	0.0318	0.2190	0.0000	0.0000	0.0000
52516	PARA-XYLENE	0.0349	0.2405	0.0000	0.0000	0.0000
52600	ESTERS-U	0.0008	0.0087	0.0000	0.0000	0.0000
52642	TERT-BUTYL ACETATE	0.0002	0.0000	0.0000	0.0000	0.0000
52683	MONONONYLPHENOL	0.0004	0.0001	0.0000	0.0000	0.0000
52802	ALLYL GLYCIDYL ETHER	0.0004	0.0000	0.0000	0.0000	0.0000
52815	METHYL TERT BUTYL ETHER	0.0000	0.0000	0.0000	0.0000	0.0000
53299	PARACHLOROBENZOTRIFLUORIDE	0.0014	0.0085	0.0000	0.0000	0.0000
54020	ACETONE	0.0023	0.0306	0.0000	0.0000	0.0000
54065	METHYL ETHYL KETONE	0.0013	0.0038	0.0000	0.0000	0.0000
54070	METHYL ISOBUTYL KETONE	0.0009	0.0087	0.0000	0.0000	0.0000
54072	HEPTANONE 2	0.0067	0.0718	0.0000	0.0000	0.0000
54080	4,4'-METHYLENEDICYCLOHEXANAMINE	0.0008	0.0000	0.0000	0.0000	0.0000
55150	1,3- BUTADIENE	0.0186	0.1024	0.0000	0.0002	0.0002
55175	BUTENE	0.0000	0.0000	0.0000	0.0135	0.0135
55176	1-BUTENE	0.0000	0.0000	0.0000	0.0050	0.0050
55178	ISOBUTENE	0.0000	0.0000	0.0000	0.0075	0.0075
55179	TRANS-2-BUTENE	0.0000	0.0000	0.0000	0.0060	0.0060
55300	ETHYLENE	0.2778	1.5173	0.0000	0.1156	0.1156
55400	ISOBUTYLENE	0.0000	0.0000	0.0000	0.0002	0.0002
55525	PENTENE 1	0.0000	0.7285	0.0000	0.0000	0.0000
55550	PERCHLOROETHYLENE	0.0000	0.0000	0.0000	0.0000	0.0000
55600	PROPYLENE	0.9324	5.0518	0.0000	0.0329	0.0329
55650	TRICHLOROETHYLENE	0.0000	0.0000	0.0000	0.0000	0.0000
56050	CYCLOHEXANE	0.0818	0.5210	0.0000	0.0000	0.0000
56100	CYCLOPENTANE	0.0479	1.0569	0.0000	0.0000	0.0000
56528	ISOHEXANE AKA 2-METHYLPENTANE	0.8375	4.8745	0.0000	0.0000	0.0000
56550	ETHANE	0.0000	0.0000	0.0000	0.9818	0.9818
56600	HEXANE	0.6585	3.6459	0.0000	0.0000	0.0000
56601	METHYL PENTANE 3	0.1383	0.9546	0.0000	0.0000	0.0000



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56610	2,2,4-TRIMETHYLPENTANE	0.0001	0.0007	0.0000	0.0000	0.0000
56625	ISOBUTANE	0.7269	3.9669	0.0000	0.0830	0.0830
56674	OCTANE	0.0000	0.7285	0.0000	0.0000	0.0000
56680	DECANE	0.0000	0.7285	0.0000	0.0000	0.0000
56700	ISO PENTANE	1.1653	7.1904	0.0000	0.0068	0.0068
56703	NONANE	0.0000	0.7285	0.0000	0.0000	0.0000
56725	N BUTANE	0.8709	4.8098	0.0000	0.1427	0.1427
56730	N-HEXANE	0.8244	4.5073	0.0000	0.0000	0.0000
56750	PENTANE	0.3801	2.5839	0.0000	0.0000	0.0000
56752	N-PENTANE	0.6242	3.4205	0.0000	0.2637	0.2637
56775	PROPANE	0.5412	2.9683	0.0000	0.0138	0.0138
58240	HYDROGEN CYANIDE GAS	7.7267	41.8052	0.0000	0.0000	0.0000
58243	HEXAMETHYLENE DIISOCYANATE	0.0030	0.0216	0.0000	0.0000	0.0000
58320	BENZO-A-PYRENE	0.0047	0.0255	0.0000	0.0000	0.0000
58445	1,2-BUTYLENE OXIDE	0.0050	0.0402	0.0000	0.0000	0.0000
58650	CARBON DISULFIDE	0.0172	0.0940	0.0000	0.0000	0.0000
58775	CARBONYL SULFIDE	0.0374	0.0000	0.0000	0.0000	0.0000
58820	ORGANIC PHOSPHORUS OXIDES-U	0.0000	0.0000	0.0000	0.0000	0.0000
58999	AROMATIC PETROLEUM DISTILLATE LIGHT	0.4097	2.2410	0.0000	0.0000	0.0000
59001	CRUDE OIL	18.5672	117.4720	0.0000	0.0202	0.0202
59003	GASOLINE	0.6162	0.0000	0.0000	0.0000	0.0000
59004	JET FUEL	0.0572	0.0000	0.0000	0.0000	0.0000
59009	PETROLEUM DISTILLATE	0.2411	1.3164	0.0000	0.0000	0.0000
59150	DIESEL	0.5651	2.8826	0.0000	0.0011	0.0011
59250	GAS OIL	6.9762	36.8653	0.0000	0.0000	0.0000
59300	NAPHTHA	6.1181	37.1815	0.0000	0.0000	0.0000
59375	PROCESS FUEL GAS	10.0030	53.8131	0.0000	0.0000	0.0000
59400	RAFFINATE	3.1039	19.5208	0.0000	0.0000	0.0000
59450	REFORMATE	1.2186	8.1552	0.0000	0.0000	0.0000
59866	PHENANTHRENE	0.0000	0.0000	0.0000	0.0000	0.0000
60000	METHANE	0.0000	0.0000	0.0000	0.4058	0.4058
70030	HYDROGEN	0.0000	0.0000	0.0001	0.0000	0.0001
70050	AMMONIA	0.9237	4.7222	0.0000	0.0311	0.0311
70226	CARBONYL SULFIDE	0.0000	0.2050	0.0000	0.0000	0.0000
70300	HYDROGEN SULFIDE	2.9280	15.7855	0.0000	0.0044	0.0044
70400	NITROGEN OXIDES	99.7743	531.3580	0.0000	0.0082	0.0082
70510	SULFUR DIOXIDE	27.0378	159.3147	0.0000	2.0801	2.0801
70516	SULFURIC ACID VAPOR	20.8210	110.7298	0.0000	0.0000	0.0000



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80000	OZONE	3.4639	18.7768	0.0000	0.0000	0.0000
90100	CARBON DIOXIDE	0.0497	0.4023	0.0000	0.0000	0.0000
90300	CARBON MONOXIDE	105.3882	562.3147	0.0000	8.4083	8.4083



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11905	ANTHRACENE	0.0033	0.0075	0.0000	0.0000	0.0000
50002	POLYCYCLIC ORGANIC MATTER	0.0079	0.0425	0.0000	0.0000	0.0000
51530	METHANOL	0.0000	0.0000	0.0000	0.0000	0.0000
51535	CRESOL	0.0088	0.0477	0.0000	0.0000	0.0000
51550	PHENOL	0.0062	0.0338	0.0000	0.0000	0.0000
51620	ACETALDEHYDE	0.0006	0.0028	0.0000	0.0000	0.0000
51640	ACROLEIN	0.0000	0.0003	0.0000	0.0000	0.0000
51680	FORMALDEHYDE	0.1006	0.5382	0.0000	0.0000	0.0000
52252	DIETHANOLAMINE	0.0000	0.0000	0.0000	0.0110	0.0110
52420	BENZENE	1.9353	11.7535	0.0000	0.0025	0.0025
52440	CUMENE	0.0362	0.2291	0.0000	0.0001	0.0001
52450	ETHYL BENZENE	0.4128	2.3980	0.0000	0.0003	0.0003
52460	NAPHTHALENE	0.0665	0.3821	0.0000	0.0000	0.0000
52463	ACENAPHTHYLENE	0.0000	0.0000	0.0000	0.0000	0.0000
52475	BIPHENYL	0.0196	0.1096	0.0000	0.0000	0.0000
52477	FLUORANTHENE	0.0256	0.1381	0.0000	0.0000	0.0000
52478	PYRENE	0.0000	0.0000	0.0000	0.0000	0.0000
52480	STYRENE	0.0246	0.1341	0.0000	0.0000	0.0000
52490	TOLUENE	2.8054	16.9567	0.0000	0.0008	0.0008
52510	XYLENE-U	1.5242	8.1871	0.0000	0.0098	0.0098
52512	META-XYLENE	0.0600	0.4211	0.0000	0.0000	0.0000
52514	ORTHO-XYLENE	0.0318	0.2190	0.0000	0.0000	0.0000
52516	PARA-XYLENE	0.0349	0.2405	0.0000	0.0000	0.0000
52815	METHYL TERT BUTYL ETHER	0.0000	0.0000	0.0000	0.0000	0.0000
54070	METHYL ISOBUTYL KETONE	0.0009	0.0087	0.0000	0.0000	0.0000
55150	1,3- BUTADIENE	0.0186	0.1024	0.0000	0.0002	0.0002
55550	PERCHLOROETHYLENE	0.0000	0.0000	0.0000	0.0000	0.0000
55650	TRICHLOROETHYLENE	0.0000	0.0000	0.0000	0.0000	0.0000
56600	HEXANE	0.6585	3.6459	0.0000	0.0000	0.0000
56610	2,2,4-TRIMETHYLPENTANE	0.0001	0.0007	0.0000	0.0000	0.0000
56730	N-HEXANE	0.8244	4.5073	0.0000	0.0000	0.0000
58240	HYDROGEN CYANIDE GAS	7.7267	41.8052	0.0000	0.0000	0.0000
58243	HEXAMETHYLENE DIISOCYANATE	0.0030	0.0216	0.0000	0.0000	0.0000
58320	BENZO-A-PYRENE	0.0047	0.0255	0.0000	0.0000	0.0000
58445	1,2-BUTYLENE OXIDE	0.0050	0.0402	0.0000	0.0000	0.0000
58650	CARBON DISULFIDE	0.0172	0.0940	0.0000	0.0000	0.0000
58775	CARBONYL SULFIDE	0.0374	0.0000	0.0000	0.0000	0.0000
59866	PHENANTHRENE	0.0000	0.0000	0.0000	0.0000	0.0000



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70226	CARBONYL SULFIDE	0.0000	0.2050	0.0000	0.0000	0.0000
Total		16.4008	92.2982	0.0000	0.0247	0.0247