



# 2023 CONTAMINANT SUMMARY REPORT

July 11, 2024

10:58 am

**CN :** CN604166868

**Organization :** BLANCHARD REFINING COMPANY LLC

**RN :** RN102535077

**Account :** GB0004L

**Site :** GALVESTON BAY 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	380.9307	1605.3012	0.0000	0.0000	0.0000
VOC	1698.0427	7408.0627	0.0000	66.0457	66.0457
CO	1527.8210	6779.8717	0.0000	31.3400	31.3400
NOX	1667.2762	7738.4965	0.0000	5.5218	5.5218
SO2	770.7853	4976.2925	0.0000	78.2290	78.2290
PB	0.0085	0.0405	0.0000	0.0000	0.0000
PM10	441.0859	1708.6600	0.0000	0.0000	0.0000

## CONTAMINANT SUMMARY REPORT

Contam	Contam Name	Annual (TPY)	Ozone (PPD)	SMSS (TPY)	Emiss Event (TPY)	EE/SMSS (TPY)
10000	PART-U	519.3239	2469.8473	0.0000	0.0000	0.0000
11160	HYDROCHLORIC ACID	2.5829	14.1526	0.0000	0.0000	0.0000
11162	HYDROFLUORIC ACID	0.0565	0.3096	0.0000	0.0002	0.0002
11905	ANTHRACENE	0.0230	0.1260	0.0000	0.0000	0.0000
14014	ALUMINUM HYDROXIDE -ALOH3	0.4644	3.5689	0.0000	0.0000	0.0000
14016	ALUMINM OXIDE- AL2O3	0.0968	0.5306	0.0000	0.0000	0.0000
14023	ANTIMONY AND COMPOUNDS	0.0101	0.0121	0.0000	0.0000	0.0000
14036	ARSENIC AND COMPOUNDS	0.0011	0.0024	0.0000	0.0000	0.0000
14051	BARIUM COMPOUNDS	0.0423	0.2223	0.0000	0.0000	0.0000
14071	BERYLLIUM AND COMPOUNDS	0.0001	0.0007	0.0000	0.0000	0.0000
14115	CADMIUM AND COMPOUNDS	0.0008	0.0031	0.0000	0.0000	0.0000
14126	CALCIUM OXIDE-CAO	0.0141	0.0774	0.0000	0.0000	0.0000
14164	CHROMIUM AND COMPOUNDS	0.0120	0.0591	0.0000	0.0000	0.0000
14171	COBALT AND COMPOUNDS	0.0145	0.0792	0.0000	0.0000	0.0000
14194	COPPER COMPOUNDS	0.0267	0.1452	0.0000	0.0000	0.0000
14309	KAOLIN	0.0014	0.0025	0.0000	0.0000	0.0000
14319	LEAD AND COMPOUNDS	0.0085	0.0405	0.0000	0.0000	0.0000
14344	MAGNESIUM OXIDE-MGO	0.0587	0.3219	0.0000	0.0000	0.0000
14355	MANGANESE AND COMPOUNDS	0.0063	0.0307	0.0000	0.0000	0.0000
14361	MERCURY AND COMPOUNDS	0.0021	0.0108	0.0000	0.0000	0.0000
14370	MICA	0.5235	6.3531	0.0000	0.0000	0.0000
14391	NICKEL AND COMPOUNDS	0.0452	0.2373	0.0000	0.0000	0.0000
14595	SELENIUM AND COMPOUNDS	0.0011	0.0059	0.0000	0.0000	0.0000
14602	SILICA,CRYSTALLINE	10.5002	0.0000	0.0000	0.0000	0.0000
14660	SULFUR-S	0.1143	0.6231	0.0000	0.0000	0.0000
14670	TALC	0.2814	0.5590	0.0000	0.0000	0.0000
14735	TITANIUM DIOXIDE	0.9600	8.6530	0.0000	0.0000	0.0000
14760	VANADIUM	0.0945	0.4277	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)
14785	ZINC COMPOUNDS	0.0385	0.1749	0.0000	0.0000	0.0000
20000	PM10 PART-U	441.0449	1708.4353	0.0000	0.0000	0.0000
24016	PM10 ALUMINM OXIDE- AL2O3	0.0230	0.1259	0.0000	0.0000	0.0000
24126	PM10 CALCIUM OXIDE-CAO	0.0034	0.0184	0.0000	0.0000	0.0000
24344	PM10 MAGNESIUM OXIDE-MGO	0.0139	0.0764	0.0000	0.0000	0.0000
24391	PM10 NICKEL AND COMPOUNDS	0.0002	0.0010	0.0000	0.0000	0.0000
24760	PM10 VANADIUM	0.0005	0.0030	0.0000	0.0000	0.0000
39999	TOTAL PM2.5 PARTICULATE	380.9307	1605.3012	0.0000	0.0000	0.0000
50001	VOC-UNCLASSIFIED	0.0000	0.0000	0.0000	0.0000	0.0000
50002	POLYCYCLIC ORGANIC MATTER	0.0011	0.0075	0.0000	0.0000	0.0000
51405	BENZYL ALCOHOL	2.3855	23.7908	0.0000	0.0000	0.0000
51430	2- BUTOXYETHANOL	0.2977	2.4486	0.0000	0.0000	0.0000
51440	N-BUTYL ALCOHOL	0.1234	1.1855	0.0000	0.0000	0.0000
51467	SULFOLANE	4.6710	25.5945	0.0000	0.0000	0.0000
51510	ISOPROPANOL	0.8271	6.6805	0.0000	0.0000	0.0000
51530	METHANOL	1.2431	6.5985	0.0000	0.0000	0.0000
51535	CRESOL	0.0066	0.0350	0.0000	0.0000	0.0000
51548	2,4-DINITROPHENOL	0.3960	2.1700	0.0000	0.0000	0.0000
51550	PHENOL	0.4156	2.2088	0.0000	0.0000	0.0000
51555	DIMETHYLPHENOL, 2,4-	0.0048	0.0263	0.0000	0.0000	0.0000
51560	PENTACHLOROPHENOL	0.2612	1.4310	0.0000	0.0000	0.0000
51620	ACETALDEHYDE	0.4561	2.4283	0.0000	0.0000	0.0000
51640	ACROLEIN	0.0278	0.1300	0.0000	0.0000	0.0000
51680	FORMALDEHYDE	4.7624	19.9590	0.0000	0.0000	0.0000
51752	BUTENE CIS-2	1.5775	8.4607	0.0000	0.1525	0.1525
52220	ANILINE-U	0.0015	0.0080	0.0000	0.0000	0.0000
52259	PETROLEUM DISTILLATES	793.4478	2788.8750	0.0000	7.5132	7.5132
52265	AROMATIC PETROLEUM DISTILLATE HEAVY	0.1712	1.2794	0.0000	0.0000	0.0000
52279	MONOETHANOLAMINE	0.0308	0.2082	0.0000	0.0005	0.0005
52280	ETHANOLAMINE	1.0408	5.7037	0.0000	0.0000	0.0000
52400	AROMATICS-U	2.8867	0.0145	0.0000	0.0000	0.0000
52416	TRIMETHYL BENZENE, 1,2,4-	3.9068	16.4634	0.0000	0.0000	0.0000
52417	TRIMETHYL BENZENE, 1,2,3-	0.3264	1.7198	0.0000	0.0000	0.0000
52418	TRIMETHYL BENZENE, 1,3,5-	0.5805	3.1569	0.0000	0.0000	0.0000
52420	BENZENE	23.4550	121.1378	0.0000	0.1723	0.1723
52423	P-DICHLOROBENZENE	0.0018	0.0098	0.0000	0.0000	0.0000
52428	TRIMETHYL BENZENE	0.0000	0.0000	0.0000	0.0000	0.0000
52440	CUMENE	2.4127	14.5445	0.0000	0.0006	0.0006



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Contam	Contam Name	Annual (TPY)	Ozone (PPD)	SMSS (TPY)	Emiss Event (TPY)	EE/SMSS (TPY)
52450	ETHYL BENZENE	5.5110	28.6763	0.0000	0.1524	0.1524
52460	NAPHTHALENE	4.5811	24.9018	0.0000	0.0000	0.0000
52470	POLYNUCLEAR AROMATICS	0.0034	0.0213	0.0000	0.0000	0.0000
52474	BISPHENOL-A	0.5401	2.3587	0.0000	0.0000	0.0000
52475	BIPHENYL	0.1329	0.7291	0.0000	0.0000	0.0000
52480	STYRENE	0.1211	0.6390	0.0000	0.0000	0.0000
52488	2-METHYLNAPHTHALENE	0.0001	0.0004	0.0000	0.0000	0.0000
52490	TOLUENE	25.4512	127.0875	0.0000	0.4051	0.4051
52510	XYLENE-U	11.9443	45.0601	0.0000	0.0927	0.0927
52512	META-XYLENE	8.5200	37.3049	0.0000	0.2718	0.2718
52514	ORTHO-XYLENE	2.3913	13.0893	0.0000	0.1189	0.1189
52516	PARA-XYLENE	2.1887	12.0093	0.0000	0.0945	0.0945
52640	BUTYL ACETATE	0.5998	4.6098	0.0000	0.0000	0.0000
52912	EPOXY RESIN	5.4970	47.9228	0.0000	0.0000	0.0000
53220	CHLOROFORM	0.0142	0.0548	0.0000	0.0000	0.0000
53250	METHYLENE CHLORIDE	0.0001	0.0005	0.0000	0.0000	0.0000
54020	ACETONE	0.3423	1.0957	0.0000	0.0000	0.0000
54065	METHYL ETHYL KETONE	1.3126	12.8225	0.0000	0.0000	0.0000
54070	METHYL ISOBUTYL KETONE	0.0851	0.0000	0.0000	0.0000	0.0000
55150	1,3- BUTADIENE	1.2388	5.0700	0.0000	0.0245	0.0245
55151	BUTADIENE, 1,2-	0.0150	0.0820	0.0000	0.0000	0.0000
55175	BUTENE	7.5742	34.5450	0.0000	0.0000	0.0000
55176	1-BUTENE	1.2619	6.8368	0.0000	0.4452	0.4452
55177	CIS-2-BUTENE	1.3059	5.4438	0.0000	0.0000	0.0000
55178	ISOBUTENE	1.1380	6.4257	0.0000	0.1996	0.1996
55179	TRANS-2-BUTENE	5.0910	23.0139	0.0000	0.2278	0.2278
55300	ETHYLENE	15.9712	80.8357	0.0000	0.3928	0.3928
55310	BUTYLETHYLENE	0.0650	0.3558	0.0000	0.0000	0.0000
55400	ISOBUTYLENE	0.9407	1.1518	0.0000	0.0000	0.0000
55475	BUTENE 2-METHYL-2	1.1122	6.0947	0.0000	0.0006	0.0006
55476	BUTENE 2-METHYL-1	0.4534	2.4843	0.0000	0.0013	0.0013
55477	BUTENE 3-METHYL-1	0.0957	0.5237	0.0000	0.0005	0.0005
55525	PENTENE 1	32.9096	200.0811	0.0000	0.0006	0.0006
55527	CIS-2-PENTENE	0.3641	1.9948	0.0000	0.0003	0.0003
55528	TRANS-2-PENTENE	0.8222	4.5061	0.0000	0.0006	0.0006
55530	VINYL CYCLOHEXENE	0.0266	0.1459	0.0000	0.0000	0.0000
55600	PROPYLENE	21.9457	97.3279	0.0000	0.7770	0.7770
56050	CYCLOHEXANE	18.5852	102.7726	0.0000	0.0433	0.0433



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56100	CYCLOPENTANE	2.0609	9.9273	0.0000	0.0023	0.0023
56105	CYCLOPENTENE	0.0284	0.0239	0.0000	0.0000	0.0000
56150	METHYLCYCLOHEXANE	0.7699	4.1633	0.0000	0.0000	0.0000
56200	METHYLCYCLOPENTANE	1.2835	6.5673	0.0000	0.0079	0.0079
56524	2,3-DIMETHYLBUTANE	0.3882	2.1274	0.0000	0.0000	0.0000
56526	DIMETHYL BUTANE 2,2	1.0833	5.9364	0.0000	0.0000	0.0000
56528	ISOHEXANE AKA 2-METHYLPENTANE	2.1845	11.9688	0.0000	0.0100	0.0100
56550	ETHANE	12.6059	69.0808	0.0000	0.0370	0.0370
56575	HEPTANE	2.1982	10.8814	0.0000	0.0000	0.0000
56590	HEXENE	0.0402	0.0000	0.0000	0.0000	0.0000
56600	HEXANE	11.7157	62.6214	0.0000	0.0844	0.0844
56601	METHYL PENTANE 3	1.2308	6.8044	0.0000	0.0073	0.0073
56605	TRIMETHYLPENTANE,2,3,4-	0.0770	0.4220	0.0000	0.0000	0.0000
56608	DIMETHYL PENTANE, 2,4-	0.1030	0.5643	0.0000	0.0000	0.0000
56609	2,2,3 - TRIMETHYLPENTANE	0.0248	0.1351	0.0000	0.0000	0.0000
56610	2,2,4-TRIMETHYLPENTANE	1.3035	5.8833	0.0000	0.0000	0.0000
56625	ISOBUTANE	47.0508	265.8858	0.0000	5.4596	5.4596
56674	OCTANE	1.1671	6.2810	0.0000	0.0000	0.0000
56675	ISO OCTANE	1.4775	9.6780	0.0000	0.0000	0.0000
56680	DECANE	0.0329	0.1771	0.0000	0.0000	0.0000
56681	DODECANE	0.0660	0.3588	0.0000	0.0000	0.0000
56683	UNDECANE	0.0312	0.1684	0.0000	0.0000	0.0000
56700	ISO PENTANE	31.5446	144.9557	0.0000	2.3458	2.3458
56703	NONANE	0.9302	5.0758	0.0000	0.0000	0.0000
56725	N BUTANE	93.4164	416.5269	0.0000	5.8455	5.8455
56730	N-HEXANE	40.7831	221.6029	0.0000	1.7063	1.7063
56750	PENTANE	127.4683	700.8280	0.0000	0.8678	0.8678
56752	N-PENTANE	15.5705	79.2907	0.0000	30.2330	30.2330
56775	PROPANE	119.7606	593.5515	0.0000	8.3774	8.3774
58240	HYDROGEN CYANIDE GAS	97.0691	358.2949	0.0000	0.0000	0.0000
58243	HEXAMETHYLENE DIISOCYANATE	2.6198	19.8673	0.0000	0.0000	0.0000
58650	CARBON DISULFIDE	0.0024	0.0000	0.0000	0.0000	0.0000
58711	ETHYLTOLUENE,O-	0.7968	4.3660	0.0000	0.0000	0.0000
58712	ETHYLTOLUENE,M-	0.4605	2.5236	0.0000	0.0000	0.0000
58715	1-ETHYL 4-METHYLBENZENE	0.2988	1.6370	0.0000	0.0000	0.0000
59001	CRUDE OIL	11.7942	0.0000	0.0000	0.0000	0.0000
59010	ALKYLATE	1.1364	0.0000	0.0000	0.0000	0.0000
59150	DIESEL	6.6385	40.8432	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)
59250	GAS OIL	0.0000	0.0000	0.0000	0.0098	0.0098
59300	NAPHTHA	0.0132	0.0000	0.0000	0.0000	0.0000
59305	NAPHTHA, PETROLEUM, HYDRO TREAT LT	0.5222	0.0000	0.0000	0.0000	0.0000
59375	PROCESS FUEL GAS	144.3847	772.8636	0.0000	0.0000	0.0000
59866	PHENANTHRENE	0.0550	0.3003	0.0000	0.0000	0.0000
60000	METHANE	329.6553	1807.9374	0.0000	0.1972	0.1972
70030	HYDROGEN	110.1959	603.8128	0.0000	0.0057	0.0057
70050	AMMONIA	8.1724	42.0988	0.0000	0.0005	0.0005
70225	CARBON DISULFIDE	0.0603	0.0665	0.0000	0.0000	0.0000
70226	CARBONYL SULFIDE	3.2502	21.3594	0.0000	0.0000	0.0000
70300	HYDROGEN SULFIDE	12.7735	75.6541	0.0000	1.5234	1.5234
70400	NITROGEN OXIDES	1667.2762	7738.4965	0.0000	5.5218	5.5218
70510	SULFUR DIOXIDE	770.7853	4976.2925	0.0000	78.2290	78.2290
70515	SULFUR TRIOXIDE	13.2308	93.4699	0.0000	0.0000	0.0000
70516	SULFURIC ACID VAPOR	58.4416	203.2474	0.0000	0.0000	0.0000
80000	OZONE	0.6168	3.3800	0.0000	0.0000	0.0000
90100	CARBON DIOXIDE	1.7687	9.6922	0.0000	0.0531	0.0531
90300	CARBON MONOXIDE	1527.8210	6779.8717	0.0000	31.3400	31.3400



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11160	HYDROCHLORIC ACID	2.5829	14.1526	0.0000	0.0000	0.0000
11162	HYDROFLUORIC ACID	0.0565	0.3096	0.0000	0.0002	0.0002
11905	ANTHRACENE	0.0230	0.1260	0.0000	0.0000	0.0000
14023	ANTIMONY AND COMPOUNDS	0.0101	0.0121	0.0000	0.0000	0.0000
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14115	CADMIUM AND COMPOUNDS	0.0008	0.0031	0.0000	0.0000	0.0000
14164	CHROMIUM AND COMPOUNDS	0.0120	0.0591	0.0000	0.0000	0.0000
14171	COBALT AND COMPOUNDS	0.0145	0.0792	0.0000	0.0000	0.0000
14319	LEAD AND COMPOUNDS	0.0085	0.0405	0.0000	0.0000	0.0000
14355	MANGANESE AND COMPOUNDS	0.0063	0.0307	0.0000	0.0000	0.0000
14361	MERCURY AND COMPOUNDS	0.0021	0.0108	0.0000	0.0000	0.0000
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14595	SELENIUM AND COMPOUNDS	0.0011	0.0059	0.0000	0.0000	0.0000
24391	PM10 NICKEL AND COMPOUNDS	0.0002	0.0010	0.0000	0.0000	0.0000
50002	POLYCYCLIC ORGANIC MATTER	0.0011	0.0075	0.0000	0.0000	0.0000
51530	METHANOL	1.2431	6.5985	0.0000	0.0000	0.0000
51535	CRESOL	0.0066	0.0350	0.0000	0.0000	0.0000
51548	2,4-DINITROPHENOL	0.3960	2.1700	0.0000	0.0000	0.0000
51550	PHENOL	0.4156	2.2088	0.0000	0.0000	0.0000
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51620	ACETALDEHYDE	0.4561	2.4283	0.0000	0.0000	0.0000
51640	ACROLEIN	0.0278	0.1300	0.0000	0.0000	0.0000
51680	FORMALDEHYDE	4.7624	19.9590	0.0000	0.0000	0.0000
52420	BENZENE	23.4550	121.1378	0.0000	0.1723	0.1723
52423	P-DICHLOROBENZENE	0.0018	0.0098	0.0000	0.0000	0.0000
52440	CUMENE	2.4127	14.5445	0.0000	0.0006	0.0006
52450	ETHYL BENZENE	5.5110	28.6763	0.0000	0.1524	0.1524
52460	NAPHTHALENE	4.5811	24.9018	0.0000	0.0000	0.0000
52470	POLYNUCLEAR AROMATICS	0.0034	0.0213	0.0000	0.0000	0.0000
52475	BIPHENYL	0.1329	0.7291	0.0000	0.0000	0.0000
52480	STYRENE	0.1211	0.6390	0.0000	0.0000	0.0000
52488	2-METHYLNAPHTHALENE	0.0001	0.0004	0.0000	0.0000	0.0000
52490	TOLUENE	25.4512	127.0875	0.0000	0.4051	0.4051
52510	XYLENE-U	11.9443	45.0601	0.0000	0.0927	0.0927
52512	META-XYLENE	8.5200	37.3049	0.0000	0.2718	0.2718
52514	ORTHO-XYLENE	2.3913	13.0893	0.0000	0.1189	0.1189
52516	PARA-XYLENE	2.1887	12.0093	0.0000	0.0945	0.0945



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53220	CHLOROFORM	0.0142	0.0548	0.0000	0.0000	0.0000
53250	METHYLENE CHLORIDE	0.0001	0.0005	0.0000	0.0000	0.0000
54070	METHYL ISOBUTYL KETONE	0.0851	0.0000	0.0000	0.0000	0.0000
55150	1,3- BUTADIENE	1.2388	5.0700	0.0000	0.0245	0.0245
56600	HEXANE	11.7157	62.6214	0.0000	0.0844	0.0844
56610	2,2,4-TRIMETHYLPENTANE	1.3035	5.8833	0.0000	0.0000	0.0000
56730	N-HEXANE	40.7831	221.6029	0.0000	1.7063	1.7063
58240	HYDROGEN CYANIDE GAS	97.0691	358.2949	0.0000	0.0000	0.0000
58243	HEXAMETHYLENE DIISOCYANATE	2.6198	19.8673	0.0000	0.0000	0.0000
58650	CARBON DISULFIDE	0.0024	0.0000	0.0000	0.0000	0.0000
59866	PHENANTHRENE	0.0550	0.3003	0.0000	0.0000	0.0000
70225	CARBON DISULFIDE	0.0603	0.0665	0.0000	0.0000	0.0000
70226	CARBONYL SULFIDE	3.2502	21.3594	0.0000	0.0000	0.0000
Total		255.2462	1170.3715	0.0000	3.1237	3.1237