

APPENDIX A

STATIONARY POINT SOURCES SULFUR DIOXIDE (SO₂) EMISSIONS

Howard County Attainment Demonstration State
Implementation Plan for the 2010 One-Hour Sulfur Dioxide
National Ambient Air Quality Standard

2021-010-SIP-NR

Appendix A: Howard County Point Sources Sulfur Dioxide (SO₂) Emissions
Howard County 2010 SO₂ Nonattainment Area Point Source Annual (Routine) SO₂ Emissions in Tons Per Year (tpy) by Emission Point Number (EPN)

Regulated Entity Reference Number	Air Account	Company	Site	EPN	Emission Point Name	2017 Routine SO ₂ Emissions in tpy	2018 Routine SO ₂ Emissions in tpy	2019 Routine SO ₂ Emissions in tpy	2020 Routine SO ₂ Emissions in tpy	Average of 2017-2020 Routine SO ₂ Emissions in tpy	Projected 2026 Attainment Year SO ₂ Emissions in tpy	Data Used to Determine 2026 SO ₂ Emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	01GTRFUG	GTR AREA FUGITIVE EMISSION	0	0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	02BVGCMHTR	HEATER STACK		0.6365	0.3173	0.4497	0.4678	0.4678	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	02CHRGHTR	CRUDE "A" HEATER STACK	0.4618	1.1201	0.6011	0.6969	0.72	0.72	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	02CHRGBHTR	CRUDE "B" HEATER STACK	0.4267	0.9986	0.5246	0.7553	0.6763	0.6763	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	02CHRGDHTR	CRUDE "D" HEATER STACK	0.6626	1.6891	0.8523	1.1706	1.0937	1.0937	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	02CHRGHTR	FURNACE STACK	0	0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	02CRUDEFLR	CRUDE UNIT EMRGNCY. FLARE	0.1793	1.7258	4.5792	15.8064	5.5727	5.5727	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	02CRUDEFLUG	CRUDE UNIT FUGITIVES	0	0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	04CHRGHTR	HDS CHARGE HEATER STACK	0.0933	0.2264	0.1173	0.1995	0.1591	0.1591	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	04DECSHTR	H.D.S. HEATER STACK	0.2844	0.6274	0.2895	0.4509	0.4131	0.4131	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	05CHRGHTR	REFORMER CHARGE HEATER STACK	1.0975	2.7894	1.4319	3.1526	2.1179	2.1179	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	05DECSHTR	REFORMER DECS HEATER STACK	0.1888	0.4518	0.2204	0.3544	0.3039	0.3039	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	05REFMRFLR	HDS & REFORMER FLARE	0.1991	3.5904	6.1837	7.8896	4.4657	4.4657	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	06CHRGHTR	FCCU PREHEATER STACK	0.2398	0.6981	0.3494	0.449	0.4341	0.4341	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	06ESPPCV	ESP STACK	747.4128	827.7091	607.5291	362.2184	636.2174	636.2174	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	06ESPPCVBP	BY-PASS STACK FOR ESP & CO BOILER		0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	06FCCUFUG	FCCU FUGITIVES	0	0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	08CLEFUG	CAT LIGHT ENDS FUGITIVES	0	0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	08MEROXCBN	MEROX OFF - GAS CARBON CANISTE	0	0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	09CHRGHTR	LDH UNIFINER CHRG HEATER STACK	0.0447	0.1116	0.067	0.0961	0.0799	0.0799	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	10GTFUG	FUEL GAS TREATER FUGITIVES	0	0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	11HTOILHTR	ALKY HOT OIL HEATER STACK	0.0385	0.1034	0.0517	0.0775	0.0678	0.0678	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	14NEASTFLR	"14NEASTFLR/EMER" FLARING	0.1772	10.1551	19.6358	25.5583	13.8816	13.8816	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	15CHRGHTR	GOH CHARGE HEATER STACK	0.0685	0.1418	0.0983	0.1731	0.1204	0.1204	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	16SOUTHFLR	SS FLARE STACK	4.777	16.7708	2.2198	51.0757	18.7108	14.22	Annual Permit Limit
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	1-VGRU	VENT GAS RECOVERY UNIT	0	0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	23AC-1HTR	PDA ASPHALT HEATER STACK	0.0541	0.0042	0.0021	0.0014	0.0155	0.0155	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	23GSOILHTR	PDA GAS OIL HEATER STACK	0.0461	0.1197	0.0601	0.0813	0.0768	0.0768	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	23KTTLEHTR	PDA TEA KETTLE SUPERHEATER STA	0.0043	0.0133	0.0071	0.0103	0.0088	0.0088	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	24STM23BLR	BOILER #23 STACK	0.6132	1.6013	0.8327	1.5458	1.1483	1.1483	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	24STM24BLR	BOILER #24 STACK	0.8322	2.4985	1.1087	1.9806	1.605	1.605	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	24TEMP2BLR	N.S. HOLMAN BOILER		0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	24TEMP3BLR	S.S. INDECK BOILER		0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	24TEMP4BLR	NS WABASH BOILER		0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	24TEMPBLR	N.S. INDECK BOILER		0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	24WBASHBLR	TRAILER MOUNTED BOILER				0.0167	0.0167	0.0167	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	25CLAYHTR	CLAY TWR HEATER STACK	0.0109	0.0285	0.012	0.0226	0.0185	0.0185	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	26CBESTHTR	C8 EAST HEATER STACK		0	0	0	0	0	Average 2017-2020 reported point source emissions

Appendix A: Howard County Point Sources Sulfur Dioxide (SO₂) Emissions
Howard County 2010 SO₂ Nonattainment Area Point Source Annual (Routine) SO₂ Emissions in Tons Per Year (tpy) by Emission Point Number (EPN)

Regulated Entity Reference Number	Air Account	Company	Site	EPN	Emission Point Name	2017 Routine SO ₂ Emissions in tpy	2018 Routine SO ₂ Emissions in tpy	2019 Routine SO ₂ Emissions in tpy	2020 Routine SO ₂ Emissions in tpy	Average of 2017-2020 Routine SO ₂ Emissions in tpy	Projected 2026 Attainment Year SO ₂ Emissions in tpy	Data Used to Determine 2026 SO ₂ Emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	26C8WSTHTR	C8 WEST HEATER STACK	0.0522	0.1421	0.0676	0.0864	0.0871	0.0871	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	37BAYRKFLR	LOADING RACK STACK	0	0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	37BOXAHTR	HORIZ ASPHALT BOX HEATER "A" S	0.0686	0.172	0.0779	0.1525	0.1178	0.1178	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	37BOXBHTR	VERT ASPHALT BOX HEATER "B" ST	0.0391	0.0841	0.0619	0.0323	0.0544	0.0544	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	37PMAHTR	PMA HOT OIL HEATER STACK	0.4137	0.4062	0.0086	0.0062	0.2087	0.2087	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	37PMGTRFLR	GTR ASPHALT VAPOR COMBUSTOR	0.3785	0.5415	0.3837	0.2928	0.3991	0.3991	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	37PMGTRHTR	GTR PROCESS HEATER STACK	0.0077	0.0181	0.0115	0.0029	0.0101	0.0101	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	37S2RFCBN	S RAILCAR LDG CANISTER VENT	0	0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	37SLTWLFLR	SW STG FLARE STACK	0	0	0	0.0103	0.0026	0.0026	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	37T205HTR	"44K1&2"		0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	37T206HTR	"44L1&2"		0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	37T208AHTR	ASPHALT TANK HEATER STACK		0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	37T208BHTR	ASPHALT TANK HEATER STACK		0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	37T208CHTR	ASPHALT TANK HEATER STACK		0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	37TKMSSFUG	TANK FARM MSS EMISSIONS			0.0025	0	0.0013	0.0013	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	69SRU1FUG	S.R.U. FUGITIVE EMISSIONS	0	0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	69TGINC	#1 SRU INCINERATOR STACK	4.1027	8.8068	7.4039	6.6028	6.7291	5.3	Annual Permit Limit
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	71SRU2FUG	SULFUR RECOVERY UNIT #2	0	0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	71TGINC	#2 SRU INCINERATOR STACK	6.265	52.0191	17.0863	37.4679	28.2096	27.21	Annual Permit Limit
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	77HYDGNHTR	ULSG H2 PREHEAT HEATER STACK	0.0965	0.2691	0.13	0.1745	0.1675	0.1675	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	77STRBRHTR	NAPHTHA STRIPPER REBOILER HEAT	0.0579	0.1594	0.0754	0.1227	0.1039	0.1039	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	80CHRGHTR	HEATER STACK	0.2968	0.7062	0.3451	0.4902	0.4596	0.4596	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	80STABLRBR	HEATER STACK	0.0899	0.2385	0.1166	0.1739	0.1547	0.1547	Average 2017-2020 reported point source emissions
RN100250869	HT0011Q	DELEK US HOLDING	BIG SPRING REFINERY	01PMAHTR	Polymer Modified Asphalt Unit Heater						0.1314	Modeled rate
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	10	STK. UNIT 3 PRM. BAG FLT.			0	0	0	0	Average 2017-2020 reported point source emissions
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	13A	INCINERATOR	3481.8	3025.8	2630.7999	2169.9999	2827.1	2827.1	Average 2017-2020 reported point source emissions
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	12A	DRYER EXH. STACK UNIT 3	599.5	496.4	419.4	432.5	486.95	486.95	Average 2017-2020 reported point source emissions
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	7A	EXHAUST STACK UNIT 1 & 2	1246.4001	1106.7	973.4001	721.5	1012.0001	1012.0001	Average 2017-2020 reported point source emissions
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	14	SOUTH OIL HEATER STACK	0.002	0.002	0.0018	0.0013	0.0018	0.0018	Average 2017-2020 reported point source emissions
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	15	NORTH OIL PREHEATER STACK	0.002	0.002	0.0018	0.0013	0.0018	0.0018	Average 2017-2020 reported point source emissions
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	COGEN EGE	COGEN EMERGENCY GENERATOR ENGINE			0.0509	0.003	0.027	0.027	Average 2017-2020 reported point source emissions
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	DF-1ANORTH	STK. UNIT 1 BAG FILTER			0	0	0	0	Average 2017-2020 reported point source emissions
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	EV1	BAG FILTER 1		0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	EV2	BAG FILTER 2		0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	EV3	BAG FILTER 3		0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	FLARE-3	U3 PBF FLARE	0	0	0	0	0	0	30 Texas Administrative Code Chapter 112 limit-ceases operation upon effective date
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	FLARE-1	U1 PBF FLARE	0	0	0	0	0	0	30 Texas Administrative Code Chapter 112 limit-ceases operation upon effective date
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	FLARE-2	U2 PBF FLARE	0	0	0	0	0	0	30 Texas Administrative Code Chapter 112 limit-ceases operation upon effective date

Appendix A: Howard County Point Sources Sulfur Dioxide (SO₂) Emissions
Howard County 2010 SO₂ Nonattainment Area Point Source Annual (Routine) SO₂ Emissions in Tons Per Year (tpy) by Emission Point Number (EPN)

Regulated Entity Reference Number	Air Account	Company	Site	EPN	Emission Point Name	2017 Routine SO ₂ Emissions in tpy	2018 Routine SO ₂ Emissions in tpy	2019 Routine SO ₂ Emissions in tpy	2020 Routine SO ₂ Emissions in tpy	Average of 2017-2020 Routine SO ₂ Emissions in tpy	Projected 2026 Attainment Year SO ₂ Emissions in tpy	Data Used to Determine 2026 SO ₂ Emissions
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	FLARE 4	New Flare						504.06	30 Texas Administrative Code Chapter 112 limit and Consent Decree flare maximum operational limit
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	PRO AIR EE	PROCESS AIR EMERGENCY ENGINE			0	0.0001	0.0001	0.0001	Average 2017-2020 reported point source emissions
RN100226026	HT0027B	TOKAI CARBON CB LTD	BIG SPRING CARBON BLACK PLANT	WAT P EE	WATER PUMP EMERGENCY ENGINE			0.0693	0.0207	0.045	0.045	Average 2017-2020 reported point source emissions
RN100215896	HT0065Q	BHER POWER RESOURCES INC	C R Wing Cogeneration Plant	E-1	H.R.S.G. NO. 1 VENT STACK	0.1	0.8	1.4	0.8859	0.7965	0.7965	Average 2017-2020 reported point source emissions
RN100215896	HT0065Q	BHER POWER RESOURCES INC	C R Wing Cogeneration Plant	E-1A	H.R.S.G. #1 BYPASS VENT	0	0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100215896	HT0065Q	BHER POWER RESOURCES INC	C R Wing Cogeneration Plant	E-2	H.R.S.G. NO. 2 VENT STACK	0.1	0.9	1.4	0.8443	0.8111	0.8111	Average 2017-2020 reported point source emissions
RN100215896	HT0065Q	BHER POWER RESOURCES INC	C R Wing Cogeneration Plant	E-2A	H.R.S.G. #2 BYPASS VENT	0	0	0	0	0	0	Average 2017-2020 reported point source emissions
RN100215896	HT0065Q	BHER POWER RESOURCES INC	C R Wing Cogeneration Plant	E-3	DIESEL GENERATOR STACK	0.0105	0.0083	0.004	0.0057	0.0071	0.0071	Average 2017-2020 reported point source emissions
RN100215896	HT0065Q	BHER POWER RESOURCES INC	C R Wing Cogeneration Plant	E-4	EMERG. GNRTR. NO. 2 STCK.	0.0052	0.0052	0.0035	0.0035	0.0044	0.0044	Average 2017-2020 reported point source emissions