

## ATTACHMENT A-1

### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

#### SHORT-TERM

Permit Number 466A

These Attachments (A-1 and A-2) list the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for a consolidated permit and are the maximum rates allowed for these facilities. Volatile organic compounds emission rates are limited by the individual chemical compounds, throughput limitations and control scenarios listed on Attachment B to this permit. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

#### AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
300	Tank T-300	VOC	69.03
301	Tank T-301	VOC	69.03
302	Tank T-302	VOC	69.03
303	Tank T-303	VOC	69.03
304	Tank T-304	VOC	69.03
305	Tank T-305	VOC	69.03
306	Tank T-306	VOC	69.03
307	Tank T-307	VOC	34.52
308	Tank T-308	VOC	34.52
309	Tank T-309	VOC	34.52
326	Tank T-326	VOC	34.52
327	Tank T-327	VOC	69.03

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
328	Tank T-328	VOC	34.52
329	Tank T-329	VOC	34.52
330	Tank T-330	VOC	69.03
331	Tank T-331	VOC	69.03
333	Tank T-333	VOC	69.03
334	Tank T-334	VOC	69.03
336	Tank T-336	VOC	69.03
337	Tank T-337	VOC	69.03
338	Tank T-338	VOC	69.03
339	Tank T-339	VOC	69.03
340	Tank T-340	VOC	34.52
341	Tank T-341	VOC	34.52
342	Tank T-342	VOC	34.52
344	Tank T-344	VOC	34.52
345	Tank T-345	VOC	34.52
346	Tank T-346	VOC	34.52
348	Tank T-348	VOC	34.52

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
349	Tank T-349	VOC	34.52
350	Tank T-350	VOC	34.52
352	Tank T-352	VOC	34.52
353	Tank T-353	VOC	34.52
354	Tank T-354	VOC	34.52
400	Tank T-400	VOC	69.03
403	Tank T-403	VOC	131.17
404	Tank T-404	VOC	131.17
405	Tank T-405	VOC	131.17
406	Tank T-406	VOC	131.17
407	Tank T-407	VOC	131.17
408	Tank T-408	VOC	131.17
409	Tank T-409	VOC	131.17
410	Tank T-410	VOC	131.17
411	Tank T-411	VOC	131.17
500	Tank T-500	VOC	131.17
501	Tank T-501	VOC	131.17

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
502	Tank T-502	VOC	131.17
503	Tank T-503	VOC	131.17
504	Tank T-504	VOC	131.17
505	Tank T-505	VOC	131.17
506	Tank T-506	VOC	131.17
510	Tank T-510	VOC	131.17
511	Tank T-511	VOC	131.17
512	Tank T-512	VOC	131.17
513	Tank T-513	VOC	131.17
514	Tank T-514	VOC	131.17
515	Tank T-515	VOC	131.17
520	Tank T-520	VOC	69.03
521	Tank T-521	VOC	69.03
522	Tank T-522	VOC	69.03
523	Tank T-523	VOC	69.03
524	Tank T-524	VOC	69.03
525	Tank T-525	VOC	69.03

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
526	Tank T-526	VOC	69.03
527	Tank T-527	VOC	69.03
528	Tank T-528	VOC	69.03
529	Tank T-529	VOC	69.03
531	Tank T-531	VOC	69.03
533	Tank T-533	VOC	69.03
534	Tank T-534	VOC	69.03
535	Tank T-535	VOC	69.03
536	Tank T-536	VOC	69.03
537	Tank T-537	VOC	69.03
538	Tank T-538	VOC	69.03
560	Tank T-560	VOC	69.03
561	Tank T-561	VOC	69.03
562	Tank T-562	VOC	69.03
564	Tank T-564	VOC	69.03
565	Tank T-565	VOC	69.03
566	Tank T-566	VOC	69.03

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
580	Tank T-580	VOC	69.03
581	Tank T-581	VOC	69.03
582	Tank T-582	VOC	69.03
586	Tank T-586	VOC	69.03
587	Tank T-587	VOC	69.03
588	Tank T-588	VOC	69.03
592	Tank T-592	VOC	69.03
594	Tank T-594	VOC	34.52
595	Tank T-595	VOC	34.52
596	Tank T-596	VOC	34.52
600	Tank T-600	VOC	131.07
601	Tank T-601	VOC	131.07
602	Tank T-602	VOC	131.07
603	Tank T-603	VOC	131.07
604	Tank T-604	VOC	69.03
605	Tank T-605	VOC	69.03
606	Tank T-606	VOC	131.07

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
607	Tank T-607	VOC	131.07
608	Tank T-608	VOC	131.07
609	Tank T-609	VOC	69.03
610	Tank T-610	VOC	69.03
611	Tank T-611	VOC	131.07
612	Tank T-612	VOC	131.07
613	Tank T-613	VOC	69.03
614	Tank T-614	VOC	69.03
615	Tank T-615	VOC	69.03
623	Tank T-623	VOC	69.03
624	Tank T-624	VOC	69.03
625	Tank T-625	VOC	69.03
630	Tank T-630	VOC	69.03
631	Tank T-631	VOC	69.03
632	Tank T-632	VOC	69.03
633	Tank T-633	VOC	69.03
634	Tank T-634	VOC	69.03

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
635	Tank T-635	VOC	69.03
636	Tank T-636	VOC	69.03
637	Tank T-637	VOC	69.03
719	Tank T-719	VOC	69.03
720	Tank T-720	VOC	69.03
721	Tank T-721	VOC	69.03
722	Tank T-722	VOC	69.03
723	Tank T-723	VOC	69.03
724	Tank T-724	VOC	69.03
725	Tank T-725	VOC	69.03
726	Tank T-726	VOC	69.03
727	Tank T-727	VOC	69.03
728	Tank T-728	VOC	69.03
729	Tank T-729	VOC	69.03
730	Tank T-730	VOC	69.03
731	Tank T-731	VOC	69.03
732	Tank T-732	VOC	69.03



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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
733	Tank T-733	VOC	69.03
734	Tank T-734	VOC	69.03
735	Tank T-735	VOC	69.03
736	Tank T-736	VOC	69.03
737	Tank T-737	VOC	69.03
738	Tank T-738	VOC	69.03
739	Tank T-739	VOC	69.03
740	Tank T-740	VOC	69.03
741	Tank T-741	VOC	69.03
742	Tank T-742	VOC	69.03
743	Tank T-743	VOC	69.03
744	Tank T-744	VOC	69.03
745	Tank T-745	VOC	69.03
746	Tank T-746	VOC	69.03
747	Tank T-747	VOC	69.03
748	Tank T-748	VOC	69.03
749	Tank T-749	VOC	69.03

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
750	Tank T-750	VOC	69.03
751	Tank T-751	VOC	69.03
752	Tank T-752	VOC	69.03
753	Tank T-753	VOC	69.03
754	Tank T-754	VOC	69.03
755	Tank T-755	VOC	69.03
756	Tank T-756	VOC	69.03
757	Tank T-757	VOC	69.03
758	Tank T-758	VOC	69.03
759	Tank T-759	VOC	69.03
760	Tank T-760	VOC	69.03
761	Tank T-761	VOC	69.03
762	Tank T-762	VOC	69.03
763	Tank T-763	VOC	69.03
764	Tank T-764	VOC	69.03
765	Tank T-765	VOC	69.03
766	Tank T-766	VOC	69.03

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
767	Tank T-767	VOC	69.03
768	Tank T-768	VOC	69.03
769	Tank T-769	VOC	69.03
770	Tank T-770	VOC	69.03
771	Tank T-771	VOC	69.03
772	Tank T-772	VOC	69.03
773	Tank T-773	VOC	69.03
774	Tank T-774	VOC	69.03
775	Tank T-775	VOC	69.03
776	Tank T-776	VOC	69.03
777	Tank T-777	VOC	69.03
778	Tank T-778	VOC	69.03
779	Tank T-779	VOC	69.03
780	Tank T-780	VOC	69.03
781	Tank T-781	VOC	69.03
782	Tank T-782	VOC	69.03
783	Tank T-783	VOC	69.03

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
784	Tank T-784	VOC	69.03
785	Tank T-785	VOC	69.03
786	Tank T-786	VOC	69.03
787	Tank T-787	VOC	69.03
788	Tank T-788	VOC	69.03
789	Tank T-789	VOC	69.03
790	Tank T-790	VOC	69.03
791	Tank T-791	VOC	69.03
792	Tank T-792	VOC	69.03
793	Tank T-793	VOC	79.03
800	Spherical Pressure Tank T-800	VOC	69.03
801	Tank T-801	VOC	69.03
803	Tank T-803	VOC	34.52
804	Tank T-804	VOC	34.52
805	Tank T-805	VOC	34.52
806	Tank T-806	VOC	34.52
807	Tank T-807	VOC	34.52

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
808	Tank T-808	VOC	34.52
809	Tank T-809	VOC	34.52
810	Tank T-810	VOC	34.52
811	Tank T-811	VOC	34.52
812	Tank T-812	VOC	34.52
813	Tank T-813	VOC	34.52
814	Tank T-814	VOC	34.52
815	Tank T-815	VOC	69.03
816	Tank T-816	VOC	69.03
817	Tank T-817	VOC	69.03
818	Tank T-818	VOC	69.03
819	Tank T-819	VOC	69.03
820	Tank T-820	VOC	69.03
900	Tank T-900	VOC	34.52
901	Tank T-901	VOC	34.52
902	Tank T-902	VOC	34.52
903	Tank T-903	VOC	34.52

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
904	Tank T-904	VOC	34.52
905	Tank T-905	VOC	34.52
906	Tank T-906	VOC	34.52
907	Tank T-907	VOC	34.52
908	Tank T-908	VOC	69.03
909	Tank T-909	VOC	69.03
910	Tank T-910	VOC	69.03
911	Tank T-911	VOC	69.03
912	Tank T-912	VOC	69.03
913	Tank T-913	VOC	69.03
914	Tank T-914	VOC	69.03
915	Tank T-915	VOC	69.03
916	Tank T-916	VOC	69.03
917	Tank T-917	VOC	69.03
918	Tank T-918	VOC	69.03
919	Tank T-919	VOC	69.03
920	Tank T-920	VOC	69.03

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EMISSION SOURCES - MAXIMUM ALLOWABLE SHORT-TERM EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
921	Tank T-921	VOC	69.03
922	Tank T-922	VOC	69.03
923	Tank T-923	VOC	69.03
924	Tank T-924	VOC	69.03
925	Tank T-925	VOC	69.03
926	Tank T-926	VOC	69.03
927	Tank T-927	VOC	69.03
928	Tank T-928	VOC	69.03
TR-1	Station 1 (2 truck spots)	VOC	37.30 per spot (5)
TR-2	Station 2 (2 truck spots)	VOC	37.30 per spot (5)
TR-3	Station 3 (1 truck and 1 railcar spot)	VOC	37.30 per spot (5)
TR-4	Station 4 (3 truck and 12 railcar spots)	VOC	37.30 per spot (5)
TR-5	Station 5 (1 truck and 1 railcar spot)	VOC	37.30 per spot (5)
TR-6	Station 6 (1 truck and 2 railcar spots)	VOC	37.30 per spot (5)
TR-7	Station 7 (3 truck and 4 railcar spots)	VOC	37.30 per spot (5)

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EMISSION SOURCES - MAXIMUM ALLOWABLE SHORT-TERM EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
TR-8	Station 8 (2 truck and 2 railcar spots)	VOC	37.30 per spot (5)
TR-9	Station 9 (2 truck and 4 railcar spots)	VOC	37.30 per spot (5)
TR-10	Station 10 (1 truck and 1 railcar spot)	VOC	37.30 per spot (5)
TR-11	Station 11 (3 truck and 8 railcar spots)	VOC	37.30 per spot (5)
TR-13	Station 13 (2 truck and 4 railcar spots)	VOC	37.30 per spot (5)
TR-14	Station 14 (2 truck and 7 railcar spots)	VOC	37.30 per spot (5)
TR-15	Station 15 (3 truck and 8 railcar spots)	VOC	37.30 per spot (5)
TR-16	Station 16 (3 truck and 3 railcar spots)	VOC	37.30 per spot (5)
TR-17	Station 17 (1 truck and 8 railcar spots)	VOC	37.30 per spot (5)
TR-18	Station 18 (3 truck and 3 railcar spots)	VOC	37.30 per spot (5)
TR-19	Station 19 (1 truck and 2 railcar spots)	VOC	37.30 per spot (5)



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EMISSION SOURCES - MAXIMUM ALLOWABLE SHORT-TERM EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
TR-20	Station 20 (1 truck and 1 railcar spot)	VOC	37.30 per spot (5)
TR-22	Station 22 (12 truck and 10 railcar spots)	VOC	37.30 per spot (5)
DM52	Line 52 (8 railcar spots)	VOC	37.30 per spot (5)
DM59	Line 59 (20 railcar spots)	VOC	37.30 per spot (5)
DM63	Line 63 (7 railcar spots)	VOC	37.30 per spot (5)
DM64	Line 64 (7 railcar spots)	VOC	37.30 per spot (5)
DM65	Line 65 (7 railcar spots)	VOC	37.30 per spot (5)
DM66	Line 66 (4 railcar spots)	VOC	37.30 per spot (5)
DMT1	Line T1 (6 railcar spots)	VOC	37.30 per spot (5)
DMT2	Line T2 (6 railcar spots)	VOC	37.30 per spot (5)
DMG5	Line G5 (6 railcar spots)	VOC	37.30 per spot (5)
DMG6	Line G6 (8 railcar spots)	VOC	37.30 per spot (5)
SD-1	Ship Dock No. 1	VOC	39.76
SD-2	Ship Dock No. 2	VOC	39.76
SD-3	Ship Dock No. 3	VOC	39.76
BGD-1	Barge Dock No. 1	VOC	39.76
BGD-2	Barge Dock No. 2	VOC	39.76

## ATTACHMENT A-1

## EMISSION SOURCES - MAXIMUM ALLOWABLE SHORT-TERM EMISSION RATES

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
BGD-3	Barge Dock No. 3	VOC	39.76
BGD-4	Barge Dock No. 4	VOC	39.76
BGD-5	Barge Dock No. 5	VOC	39.76
BGD-6	Barge Dock No. 6	VOC	39.76
FL-600	Land Flare 600	VOC	20.73
		CO	6.86
		NO <sub>x</sub>	0.80
		HBr	6.03
FL-900	Land Flare 900	VOC	20.73
		CO	6.86
		NO <sub>x</sub>	0.80
		HBr	6.03
FL-MARINE1	Ship and Barge Flare No. 1	VOC	58.53
		CO	22.90
		NO <sub>x</sub>	2.67
FL-MARINE2	Ship and Barge Flare No. 2	VOC	58.53
		CO	22.90
		NO <sub>x</sub>	2.67
CA-1	Carbon Adsorption Drums	VOC	0.21
SC-800	Hexamethylene Diamine (HMD) Water Scrubber	HMD	0.05
AAS-1	Water Scrubber	VOC	0.997

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EMISSION SOURCES - MAXIMUM ALLOWABLE SHORT-TERM EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr
B-1	Boiler No. 1	NO <sub>x</sub>	2.93
		CO	2.46
		VOC	0.16
		SO <sub>2</sub>	0.02
		PM	0.01
B-2	Boiler No. 2	NO <sub>x</sub>	2.93
		CO	2.46
		VOC	0.16
		SO <sub>2</sub>	0.02
		PM	0.01
TK-ReFill	Tank Re-Fill & De-gas Control	VOC	44.78
		CO	18.09
		NO	2.11
FUG	Fugitives (4)	VOC	9.13

Dated November 7, 2008

## ATTACHMENT A-2

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## ANNUAL

Permit Number 466A

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * TPY**
300 through 310, 326 through 331, 333, 334, 336 through 342, 344 through 346, 348 through 350, 352 through 354, 400, 403 through 411, 500 through 506, 510 through 515, 520 through 529, 531, 533 through 538, 560 through 562, 564 through 566, 580 through 582, 586 through 588, 592, 600 through 615, 623 through 625, 630 through 637, 719 through 793, 800, 801, 803 through 820, 900 through 928	Storage Tanks	VOC	625.1
TR-1 through TR-11, TR-13 through TR-20, TR-22, DM52, DM59, DM63, DM64, DM65, DM66, DMT1, DMT2, DMG5, DMG6	Truck and Railcar Loading and Direct Moves, all spots uncontrolled	VOC	110.0

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## ANNUAL

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * TPY**
SD-1 through SD-3, BGD-1 through BGD-6	Ship Docks, Barge Docks Uncontrolled	VOC	130.0
FL-600 and FL-900	Truck and Railcar Loading Flare	VOC	63.2
		CO	25.7
		NO <sub>x</sub>	3.0
		HBr	1.37
FL-MARINE1 and FL-MARINE2	Ship and Barge Loading Flares	VOC	31.6
		CO	40.07
		NO <sub>x</sub>	4.67
CA-1	Carbon Adsorption Drums	VOC	0.62
SC-800	Hexamethylene Diamine (HMD) Water Scrubber	HMD	<0.01
AAS-1	Water Scrubber	VOC	0.17
B-1	Boiler 1	NO <sub>x</sub>	12.83
		CO	10.78
		VOC	0.71
		SO <sub>2</sub>	0.08
		PM	0.98
B-2	Boiler 2	NO <sub>x</sub>	12.83
		CO	10.78
		VOC	0.71
		SO <sub>2</sub>	0.08
		PM	0.98
FUG	Fugitives (4)	VOC	40.0

## ATTACHMENT A-1 and 2

### EMISSION SOURCES - MAXIMUM ALLOWABLE ANNUAL EMISSION RATES

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1  
CO - carbon monoxide  
NO<sub>x</sub> - total oxides of nitrogen  
HBr - hydrogen bromide  
HMD - hexamethylene diamine
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Allowable emission rate for each truck or railcar being loaded.

\* Emission rates are based on an operating schedule of 8,760 hours per year.

\*\* Compliance with annual emission limits is based on a rolling 12-month period.

Dated November 7, 2008