

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 194165 - Koch Methanol St James LLC - Koch Methanol Facility

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

All phases

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EMS 0001 D-04001	Methanol	2.30		10.07
EQT 0001 SMR	1,4-Dichlorobenzene		0.001	
	Ammonia		24.06	
	Arsenic (and compounds)		<0.001	
	Barium (and compounds)		0.008	
	Benzene		0.003	
	Cadmium (and compounds)		0.002	
	Chromium VI (and compounds)		0.002	
	Cobalt compounds		<0.001	
	Copper (and compounds)		0.002	
	Formaldehyde		0.09	
	Manganese (and compounds)		<0.001	
	Mercury (and compounds)		<0.001	
	Methanol		4.98	
	n-Hexane		2.20	
	Naphthalene		<0.001	
	Nickel (and compounds)		0.004	
	Toluene		0.004	
	Zinc (and compounds)		0.05	
EQT 0002 BLR	1,4-Dichlorobenzene		<0.001	
	Ammonia		10.21	
	Barium (and compounds)		0.005	
	Benzene		0.001	
	Cadmium (and compounds)		0.001	
	Chromium VI (and compounds)		0.002	
	Copper (and compounds)		<0.001	
	Formaldehyde		0.02	
	Manganese (and compounds)		<0.001	
	Mercury (and compounds)		<0.001	
	Methanol		0.84	
	n-Hexane		0.58	
	Nickel (and compounds)		0.002	
	Toluene		0.001	
	Zinc (and compounds)		0.03	
EQT 0003 FLR	Barium (and compounds)	<0.001	0.118	0.002
	Benzene	<0.001	0.06	<0.01
	Chromium VI (and compounds)	<0.001	0.038	0.001
	Formaldehyde	0.01	2.02	0.03
	Methanol	1.88	11056.44	8.22
	n-Hexane	0.16	48.38	0.69
	Nickel (and compounds)	<0.001	0.056	0.001
	Toluene	<0.001	0.09	<0.01
	Zinc (and compounds)	0.003	0.78	0.01
EQT 0004 EGEN	Benzene	0.02	0.02	<0.01
EQT 0007 CWT	Methanol	8.40		36.79
EQT 0014 TK-NH3	Ammonia	0.13		0.56
EQT 0026	Acetaldehyde	0.01	0.01	<0.01

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EGEN2	Formaldehyde	0.08	0.08	<0.01
EQT 0027 GASTANK	2,2,4-Trimethylpentane	<0.001		<0.01
	Benzene	<0.001		<0.01
	Ethyl benzene	<0.001		<0.01
	n-Hexane	<0.001		<0.01
	Toluene	<0.001		<0.01
EQT 0028 RT LOAD	Formaldehyde		0.001	
	Methanol		18.44	
	n-Hexane		0.03	
	Zinc (and compounds)		0.001	
EQT 0033 E. GEN 01	Benzene	0.02	0.02	0.01
EQT 0034 E. GEN 02	Benzene	0.02	0.02	0.01
FUG 0001 FUG	Ammonia	0.21		0.93
	Methanol	8.86		38.82
FUG 0002 WWT	Ammonia	0.75		3.29
	Hydrogen sulfide	2.08		9.13
	Methanol	0.08		0.33
GRP 0002 SMR BLR PCS Vent CAP	1,4-Dichlorobenzene	0.002		0.01
	Ammonia	26.40		115.63
	Arsenic (and compounds)	0.001		0.001
	Barium (and compounds)	0.01		0.043
	Benzene	0.003		0.01
	Cadmium (and compounds)	0.003		0.014
	Chromium VI (and compounds)	0.004		0.014
	Cobalt compounds	0.001		<0.01
	Copper (and compounds)	0.002		0.008
	Formaldehyde	0.10		0.44
	Manganese (and compounds)	0.001		<0.01
	Mercury (and compounds)	0.001		0.003
	Methanol	4.38		19.20
	n-Hexane	2.39		10.47
	Naphthalene	0.002		0.01
	Nickel (and compounds)	0.005		0.02
	Toluene	0.01		0.02
	Zinc (and compounds)	0.06		0.28
GRP 0003 MTPCAP	Formaldehyde	0.001		0.01
	Methanol	6.23		27.29
	n-Hexane	0.03		0.15
	Zinc (and compounds)	0.001		<0.01
GRP 0004 SATK CAP	Sulfuric acid	0.01		0.04
RLP 0024 PCSVENT	Ammonia		43.69	
RLP 0025 CTVENT	Ammonia	0.02	0.02	0.08
UNF 0001	1,4-Dichlorobenzene			0.01
	2,2,4-Trimethylpentane			0.01
	Acetaldehyde			0.01
	Ammonia			120.49

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	Arsenic (and compounds)			0.001
	Barium (and compounds)			0.045
	Benzene			0.05
	Cadmium (and compounds)			0.014
	Chromium VI (and compounds)			0.015
	Cobalt compounds			0.01
	Copper (and compounds)			0.008
	Ethyl benzene			0.01
	Formaldehyde			0.46
	Hydrogen sulfide			9.13
	Manganese (and compounds)			0.01
	Mercury (and compounds)			0.003
	Methanol			140.78
	n-Hexane			11.32
	Naphthalene			0.01
	Nickel (and compounds)			0.021
	Sulfuric acid			0.04
	Toluene			0.04
	Zinc (and compounds)			0.30

Note: Emission rates associated with alternate operating scenarios (SCN) are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

Emission Rates Notes:

All phases

EMS 0001	Methanol	Tons/Year	All toxic air pollutants (TAP) limitations established in this "Emissions Rates for TAP/HAP & Other Pollutants" section of the permit are state-only Which Months: All Year
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