Attachment #1

Darby Creek Potential Emissions

Tank #	Product	VOC	Benzene	Cresol (-m)	Ethylbenzene	Hexane (-n)	Isooctane	Cumene	napthalene	Phenol	Toluene	Xylene (-m)	
DC-10	Crude Oil	2.89	0.0147	0.0035	0.0067	0.0467	0.0020	0.0016	0.0035	0.0052	0.0185	0.0234	
DC-11	Crude Oil	2.81	0.0144	0.0035	0.0067	0.0454	0.0020	0.0016	0.0035	0.0052	0.0183	0.0234	
DC-12	Crude Oil	2.79	0.0143	0.0035	0.0067	0.0450	0.0020	0.0016	0.0035	0.0052	0.0183	0.0234	
DC-13	Crude Oil	2.81	0.0144	0.0035	0.0067	0.0453	0.0020	0.0016	0.0035	0.0052	0.0183	0.0234	
DC-14	Crude Oil	2.81	0.0144	0.0035	0.0067	0.0453	0.0020	0.0016	0.0035	0.0052	0.0183	0.0234	
DC-15	Crude Oil	2.81	0.0144	0.0035	0.0067	0.0453	0.0020	0.0016	0.0035	0.0052	0.0183	0.0234	
DC-16	Crude Oil	2.81	0.0144	0.0035	0.0067	0.0453	0.0020	0.0016	0.0035	0.0052	0.0183	0.0234	
DC-17	Crude Oil	2.81	0.0144	0.0035	0.0067	0.0454	0.0020	0.0016	0.0035	0.0052	0.0183	0.0234	
DC-18	Crude Oil	2.81	0.0144	0.0035	0.0067	0.0454	0.0020	0.0016	0.0035	0.0052	0.0183	0.0234	
DC-19	Crude Oil	2.82	0.0144	0.0035	0.0067	0.0455	0.0020	0.0016	0.0035	0.0052	0.0183	0.0234	
DC-20	Crude Oil	2.81	0.0144	0.0035	0.0067	0.0454	0.0020	0.0016	0.0035	0.0052	0.0183	0.0234	
DC-21	Crude Oil	2.81	0.0144	0.0035	0.0067	0.0454	0.0020	0.0016	0.0035	0.0052	0.0183	0.0234	
DC-22	Crude Oil	2.66	0.0136	0.0035	0.0067	0.0419	0.0019	0.0016	0.0035	0.0052	0.0179	0.0232	
DC-23	Crude Oil	2.66	0.0136	0.0035	0.0067	0.0419	0.0019	0.0016	0.0035	0.0052	0.0179	0.0232	
DC-24	Crude Oil	2.66	0.0136	0.0035	0.0067	0.0419	0.0019	0.0016	0.0035	0.0052	0.0179	0.0232	
DC-27	Crude Oil	2.66	0.0136	0.0035	0.0067	0.0419	0.0019	0.0016	0.0035	0.0052	0.0179	0.0232	
DC-28	Crude Oil	2.66	0.0136	0.0035	0.0067	0.0419	0.0019	0.0016	0.0035	0.0052	0.0179	0.0232	
DC-3	Crude Oil	2.66	0.0135	0.0035	0.0067	0.0418	0.0019	0.0016	0.0035	0.0052	0.0179	0.0232	
DC-31	Crude Oil	2.66	0.0136	0.0035	0.0067	0.0419	0.0019	0.0016	0.0035	0.0052	0.0179	0.0232	
DC-32	Crude Oil	2.66	0.0136	0.0035	0.0067	0.0419	0.0019	0.0016	0.0035	0.0052	0.0179	0.0232	
DC-34	Crude Oil	5.75	0.0288	0.0065	0.0125	0.0933	0.0039	0.0030	0.0065	0.0096	0.0349	0.0435	
DC-35	Crude Oil	5.75	0.0288	0.0065	0.0125	0.0933	0.0039	0.0030	0.0065	0.0096	0.0349	0.0435	
DC-4	Crude Oil	2.66	0.0135	0.0035	0.0067	0.0418	0.0019	0.0016	0.0035	0.0052	0.0179	0.0232	
DC-5	Crude Oil	2.62	0.0133	0.0035	0.0065	0.0413	0.0019	0.0016	0.0035	0.0051	0.0175	0.0227	
DC-6	Crude Oil	2.66	0.0135	0.0035	0.0067	0.0418	0.0019	0.0016	0.0035	0.0052	0.0179	0.0232	
DC-7	Crude Oil	2.62	0.0133	0.0035	0.0065	0.0413	0.0019	0.0016	0.0035	0.0051	0.0175	0.0227	
DC-8	Crude Oil	2.66	0.0135	0.0035	0.0067	0.0418	0.0019	0.0016	0.0035	0.0052	0.0179	0.0232	
DC-9	Crude Oil	2.81	0.0144	0.0035	0.0067	0.0453	0.0020	0.0016	0.0035	0.0052	0.0183	0.0234	
DC4 Separator		2.70	0.1980	0.0726	0.1320	0.5148	0.0330	0.0330	0.0726	0.1056	0.3300	0.4620	
DC-101 Water Tank		2.70	0.0288	0.0065	0.0125	0.0933	0.0039	0.0030	0.0065	0.0096	0.0349	0.0435	
Fugitives		0.70	0.0042	0.00154	0.0028	0.01092	0.0007	0.0007	0.00154	0.00224	0.007	0.0098	Total HAP
Cleaning		7.00											
Total		95.71	0.65	0.19	0.35	1.94	0.10	0.09	0.19	0.27	0.91	1.21	5.88

*HAP Concentrations (taken from API 1673, and supplemented from previous data from James Durham of EPA).

	liquid wt %
Benzene	0.6
Cresol (-m)	0.22
Ethylbenzene	0.4
Hexane (-n)	1.56
Isooctane	0.1
Cumene	0.1
napthalene	0.22
Phenol	0.32
Toluene	1
Xylene (-m)	1.4

* Storage Tank Assumptions: 100 turnovers/tank, RVP of 10
* TANKS 4 Program used for tank emission estimates.
* Speciated emissions for DC-4 and Fugitives calculated by multiplying the liquid wt% by the VOC total.
* DC-4 Separator VOC emissions extracted from Title V application potential emissions.
* DC-101 Water Tank emissions were assumed to be equal to the highest tank emissions on sight to give a conservative estimate. A more accurate calculation should be performed when necessary.