

TABLE 2

**EMISSIONS ESTIMATE SUMMARY
POWDER WASH NORTH COMPRESSOR STATION - SOUTH PIT
MOFFAT COUNTY, COLORADO
ANDEAVOR FIELD SERVICES LLC**

Sample Information and Lab Analysis								
Date	Total Flow (cf)	Delta Flow (cf)	Benzene (ug/l)	Toluene (ug/l)	Ethyl Benzene (ug/l)	Xylenes (ug/l)	VOCs TVPH (ug/l)	PID (ppm)
07/20/17	43,200	43,200	5,660	6,470	156	1,257.3	46,300	2,141
08/03/17	361,800	318,600	870	1,500	62	270	74,000	2,500
08/31/17	1,011,600	649,800	400	920	70	315	25,000	2,196
09/20/17	1,454,400	442,800	130	270	12	60	31,000	1,936
10/05/17	1,755,000	300,600	430	870	56	277	12,000	1,408
11/13/17	2,476,800	721,800	260	550	44	265	16,000	1,267
12/20/17	2,817,000	340,200	25	40	3.1	18.1	1,100	157
01/16/18	3,254,400	437,400	170	260	19	116	9,400	1,053
02/16/18	3,754,800	500,400	160	200	12	68	4,600	1,005
03/12/18	4,195,800	441,000	220	360	17	91	6,900	1,003
04/25/18	5,146,200	950,400	190	270	18	100	9,800	891
05/22/18	5,904,000	757,800	210	300	16	89	9,600	996
06/11/18	6,310,800	406,800	300	400	23	131	19,000	1,146
07/26/18	7,385,400	1,074,600	290	290	14	79	18,000	1,078
08/15/18	7,945,200	559,800	270	330	10	54.9	19,000	1,168
09/20/18	8,753,400	808,200	340	400	23	133	12,000	993
10/17/18	9,255,600	502,200	310	480	20	121	14,000	1,103
11/12/18	9,721,800	466,200	220	350	17	119	11,000	1,047
12/17/18	10,263,600	541,800	260	310	14	78	10,000	1,148
01/29/19	10,882,800	619,200	72	110	7.3	42.6	6,100	440
02/25/19	11,309,400	426,600	80	96	5.7	34.1	3,100	416.4
03/15/19	11,649,600	340,200	280	280	9.9	50.1	11,000	995
04/25/19	12,546,000	896,400	160	200	12	69.0	8,300	729
05/24/19	13,244,400	698,400	110	140	7.4	35.9	4,700	563
06/10/19	13,676,400	432,000	93	120	6	33.7	4,400	642
07/10/19	14,437,800	761,400	130	170	8.5	50.4	4,600	385
08/08/19	15,159,600	721,800	110	150	7.5	46.2	5,100	525
09/25/19	16,246,800	1,087,200	90	170	6	36.9	4,400	517
10/16/19	16,664,400	417,600	160	280	11	73.0	5,600	673
11/18/19	17,236,800	572,400	120	190	12	75.0	5,700	728
01/16/20	17,757,600	520,800	930	640	23	123.0	39,000	2,858
02/14/20	17,823,600	66,000	390	530	24	110.0	18,000	1,767



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Emission Calculations						
Date	Flow Rate (cfm)	Benzene (lb/hr)	Toluene (lb/hr)	Ethyl Benzene (lb/hr)	Xylenes (lb/hr)	VOCs TVPH (lb/hr)
07/20/17	30	0.64	0.73	0.02	0.14	5.19
08/03/17	30	0.10	0.17	0.01	0.03	8.30
08/31/17	30	0.04	0.10	0.01	0.04	2.81
09/20/17	30	0.0146	0.0303	0.0013	0.0067	3.48
10/05/17	30	0.0482	0.0976	0.0063	0.0311	1.35
11/13/17	30	0.0292	0.0617	0.0049	0.0297	1.80
12/20/17	30	0.0028	0.0045	0.0003	0.0020	0.12
01/16/18	30	0.0191	0.0292	0.0021	0.0130	1.05
02/16/18	30	0.0180	0.0224	0.0013	0.0076	0.52
03/12/18	30	0.0247	0.0404	0.0019	0.0102	0.77
04/25/18	30	0.0213	0.0303	0.0020	0.0112	1.10
05/22/18	30	0.0236	0.0337	0.0018	0.0100	1.08
06/11/18	30	0.0337	0.0449	0.0026	0.0147	2.13
07/23/18	30	0.0325	0.0325	0.0016	0.0089	2.02
08/15/18	30	0.0303	0.0370	0.0011	0.0062	2.13
09/20/18	30	0.0381	0.0449	0.0026	0.0149	1.35
10/17/18	30	0.0348	0.0539	0.0022	0.0136	1.57
11/12/18	30	0.0247	0.0393	0.0019	0.0134	1.23
12/17/18	30	0.0292	0.0348	0.0016	0.0088	1.12
01/29/19	30	0.0081	0.0123	0.0008	0.0048	0.68
02/25/19	30	0.0090	0.0108	0.0006	0.0038	0.35
03/15/19	30	0.0314	0.0314	0.0011	0.0056	1.23
04/25/19	30	0.0180	0.0224	0.0013	0.0077	0.93
05/24/19	30	0.0123	0.0157	0.0008	0.0040	0.53
06/10/19	30	0.0104	0.0135	0.0007	0.0038	0.49
07/10/19	30	0.0146	0.0191	0.0010	0.0057	0.52
08/08/19	30	0.0123	0.0168	0.0008	0.0052	0.57
09/25/19	30	0.0101	0.0191	0.0007	0.0041	0.49
10/16/19	30	0.0180	0.0314	0.0012	0.0082	0.63
11/18/19	30	0.0135	0.0213	0.0013	0.0084	0.64
01/16/20	20	0.0696	0.0479	0.0017	0.0092	2.92
02/14/20	10	0.0146	0.0198	0.0009	0.0041	0.67



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Tons emitted over total operating time									
Date	Total Operational Hours	Delta Hours	Benzene (tons)	Toluene (tons)	Ethyl Benzene (tons)	Xylenes (tons)	TVPH (tons)	Cumulative TVPH (tons)	12 Month Rolling Throughput (tons)
07/19/17					Startup				
07/20/17	24	24.0	0.0076	0.0087	0.0002	0.0017	0.0623	0.0623	0.1
08/03/17	201	177.0	0.0086	0.0149	0.0006	0.0027	0.7348	0.7972	0.8
08/31/17	562	361.0	0.0081	0.0186	0.0014	0.0064	0.5063	1.3035	1.3
09/20/17	808	246.0	0.0018	0.0037	0.0002	0.0008	0.4278	1.7313	1.7
10/05/17	975	167.0	0.0040	0.0082	0.0005	0.0026	0.1124	1.8437	1.8
11/13/17	1,376	401.0	0.0058	0.0124	0.0010	0.0060	0.3599	2.2037	2.2
12/20/17	1,565	189.0	0.0003	0.0004	0.0000	0.0002	0.0117	2.2153	2.2
01/16/18	1,808	243.0	0.0023	0.0035	0.0003	0.0016	0.1281	2.3435	2.3
02/16/18	2,086	278.0	0.0025	0.0031	0.0002	0.0011	0.0717	2.4152	2.4
03/12/18	2,331	245.0	0.0030	0.0049	0.0002	0.0013	0.0948	2.5101	2.5
04/25/18	2,859	528.0	0.0056	0.0080	0.0005	0.0030	0.2903	2.8004	2.8
05/22/18	3,280	421.0	0.0050	0.0071	0.0004	0.0021	0.2267	3.0271	3.0
06/11/18	3,506	226.0	0.0038	0.0051	0.0003	0.0017	0.2409	3.2680	3.3
07/23/18	4,103	597.0	0.0097	0.0097	0.0005	0.0026	0.6029	3.8709	3.9
08/15/18	4,414	311.0	0.0047	0.0058	0.0002	0.0010	0.3315	4.2024	3.4
09/20/18	4,863	449.0	0.0086	0.0101	0.0006	0.0034	0.3023	4.5046	3.2
10/17/18	5,142	279.0	0.0049	0.0075	0.0003	0.0019	0.2191	4.7238	2.9
11/12/18	5,401	259.0	0.0032	0.0051	0.0002	0.0017	0.1598	4.8836	2.7
12/17/18	5,702	301.0	0.0044	0.0052	0.0002	0.0013	0.1689	5.0525	2.8
01/29/19	6,046	344.0	0.0014	0.0021	0.0001	0.0008	0.1177	5.1702	2.8
02/25/19	6,283	237.0	0.0011	0.0013	0.0001	0.0005	0.0412	5.2114	2.8
03/15/19	6,472	189.0	0.0030	0.0030	0.0001	0.0005	0.1166	5.3280	2.8
04/25/19	6,970	498.0	0.0045	0.0056	0.0003	0.0019	0.2319	5.5599	2.8
05/24/19	7,358	388.0	0.0024	0.0030	0.0002	0.0008	0.1023	5.6622	2.6
06/10/19	7,598	240.0	0.0013	0.0016	0.0001	0.0005	0.0592	5.7215	2.5
07/10/19	8,021	423.0	0.0031	0.0040	0.0002	0.0012	0.1092	5.8306	2.0
08/08/19	8,422	401.0	0.0025	0.0034	0.0002	0.0010	0.1147	5.9454	1.7
09/25/19	9,026	604.0	0.0030	0.0058	0.0002	0.0013	0.1491	6.0945	1.6
10/16/19	9,258	232.0	0.0021	0.0036	0.0001	0.0010	0.0729	6.1674	1.4
11/18/19	9,576	318.0	0.0021	0.0034	0.0002	0.0013	0.1017	6.2690	1.4
01/16/20	10,010	434.0	0.0151	0.0104	0.0004	0.0020	0.6330	6.9021	1.7
02/14/20	10,120	110.0	0.0008	0.0011	0.0000	0.0002	0.0370	6.9391	1.7
		Sum	0.136	0.190	0.010	0.056	6.939		

NOTES:

cf - cubic feet

ug/l - micrograms per liter

VOCs - volatile organic compounds

TVPH - total volatile petroleum hydrocarbons

cfm - cubic feet per minute

lb/hr - pounds per hour

lbs - pounds

PID - photo-ionization detector

ppm - part per million

Effluent exhaust sample not collected in December 2019 due to hazardous road conditions.

Flow on 1/16/20 decreased due to frozen lines due to condensation

