

Flaring Record 2021

PPC condition 4.3.1. (This documents the operational flaring and class 2 monthly totals)

Class two flaring highlighted in red text

Total Mass Flared (operational)	2472.37	Tonnes
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Jan-21								
Date (Gas day)	Mass Flared [tonnes]	Description of the Event	Flare Employed	Compositional breakdown [tonnes]				
				CO2	Methane	Ethane	Propane	Butane
Entire Month	4.51	Propane and butane boil off	Elevated	0.00	0.00	0.00	3.43	1.08
Cumulative	0.31	K-3301-A&B primary seal gas to flare	Elevated	0.00	0.00	0.00	0.00	0.31
14-Jan-21	10.43	Draining of 2-C1003 level to flare	Elevated	0.00	0.00	0.00	0.00	10.43
16-Jan-21	1.64	Venting of pressure from 2C1003 through 2-PC-52	Elevated & Ground	0.00	0.00	0.00	0.03	1.61
17-Jan-21	7.66	Draining of level from 2C1003	Elevated	0.00	0.00	0.00	0.00	7.66
17-Jan-21	0.88	2-PC-51 and 2-PC-52	Elevated	0.00	0.00	0.01	0.83	0.03
21-Jan-21	0.83	1-K1501 vented after ESD and vented after trip	Elevated	0.00	0.00	0.00	0.83	0.00
22-Jan-21	0.41	1-V1501 drained through 1-E1504 clear alarm (resulted from bringing module 1 up)	Elevated	0.00	0.00	0.00	0.41	0.00
25-Jan-21	0.75	3-V1303 drained from high level alarm	Elevated	0.00	0.00	0.00	0.75	0.00
26-Jan-21	1.14	(1) 3-K1501 vented after ESD, (2) vented for start-up, (3) vented after trip, (4) vented for start-up	Elevated	0.00	0.00	0.00	1.14	0.00
26-Jan-21	0.76	(1) 3-F-5501 vent down for start up X 2, (2) 2-V1303	Elevated	0.00	0.00	0.00	0.76	0.00
26-Jan-21	0.76	3-V1303 drained from high level alarm	Elevated	0.00	0.00	0.00	0.76	0.00
Monthly Sum Total	30.09			0.00	0.00	0.01	8.95	21.13

Feb-21								
Date (Gas day)	Mass Flared [tonnes]	Description of the Event	Flare Employed	Compositional breakdown [tonnes]				
				CO2	Methane	Ethane	Propane	Butane
Entire Month	6.25	Propane and butane boil off	Elevated	0.00	0.00	0.00	4.59	1.66
Cumulative	0.19	K-3301-A&B primary seal gas to flare	Elevated	0.00	0.00	0.00	0.00	0.19
06-Feb-21	0.29	3-V1505 level drained and flattened	Elevated	0.00	0.00	0.00	0.00	0.29
21-Feb-21	0.51	2-K1501 gassed up and vented X3 for start up	Elevated	0.00	0.00	0.00	0.51	0.00
22-Feb-21	0.18	(1) 2-K1501 vented for permissive to start	Elevated	0.00	0.00	0.00	0.18	0.00
22-Feb-21	0.76	(2) 1-E1505 drained for 1-K1501 start	Elevated	0.00	0.00	0.00	0.76	0.00
22-Feb-21	1.67	(3) 1-E1504 drained for 1-K1501 start	Elevated	0.00	0.00	0.00	1.67	0.00
22-Feb-21	0.87	(4) 2-E1501 drained	Elevated	0.00	0.00	0.00	0.87	0.00
23-Feb-21	0.19	2-K1501 N2 purged	Elevated	0.00	0.00	0.00	0.19	0.00
28-Feb-21	3.89	C3 warmrdown drained, GF hot oil purge on Mod 3	Elevated	0.00	0.00	0.00	3.89	0.00
Monthly Sum Total	14.81			0.00	0.00	0.00	12.67	2.14

Mar-21								
Date (Gas day)	Mass Flared [tonnes]	Description of the Event	Flare Employed	Compositional breakdown [tonnes]				
				CO2	Methane	Ethane	Propane	Butane
Entire Month	3.26	Propane and butane boil off	Elevated	0.00	0.00	0.00	3.10	0.16
Cumulative	0.21	K-3301-A&B primary seal gas to flare	Elevated	0.00	0.00	0.00	0.00	0.21
07-Mar-21	4.89	C3 ship vapours returned to flare (off spec)	Elevated	0.00	0.00	0.00	4.8875	0.00
09-Mar-21	1.91	3-K1501 purged with N2 X2	Elevated	0.00	0.00	0.02	1.868161228	0.03
11-Mar-21	0.03	3-53-P-5 opened	Elevated	0.00	0.00	0.00	0.030499408	0.00
12-Mar-21	0.03	3-53-P-5 opened	Elevated	0.00	0.00	0.00	0.030477622	0.00
13-Mar-21	0.03	3-53-P-5 opened	Elevated	0.00	0.00	0.00	0.030630119	0.00
14-Mar-21	0.03	3-53-P-5 opened	Elevated	0.00	0.00	0.00	0.030586549	0.00
15-Mar-21	0.02	3-53-P-5 opened	Elevated	0.00	0.00	0.00	0.018408571	0.00
16-Mar-21	0.46	501 gassed up and vented X3 and vented for start perm	Elevated	0.00	0.00	0.00	0.463070401	0.00
16-Mar-21	4.08	3-V1504 drained for module start up	Elevated	0.00	0.00	0.00	4.081	0.00
17-Mar-21	0.08	2-K1501 N2 purged X2	Elevated	0.00	0.00	0.00	0.077413731	0.00
Monthly Sum Total	15.03			0.00	0.00	0.02	14.62	0.40

Apr-21								
Date (Gas day)	Mass Flared [tonnes]	Description of the Event	Flare Employed	Compositional breakdown [tonnes]				
				CO2	Methane	Ethane	Propane	Butane
Entire Month	15.43	Propane and butane boil off	Elevated	0.00	0.00	0.00	14.54	0.89
Cumulative	0.18	K-3301-A&B primary seal gas to flare	Elevated	0.00	0.00	0.00	0	0.18
03-Apr-21	4.31	Draining of 2-C1001	Elevated	0.00	0.04	0.46	1.601712442	2.20
04-Apr-21	2.50	Draining of 2-E1501	Elevated	0.00	0.00	0.00	2.495458496	0.00
04-Apr-21	0.57	Draining of 2-E1502	Elevated	0.00	0.00	0.00	0.571492681	0.00
04-Apr-21	0.35	2-K1501 gas purge X3, 2-K1501 vent down to gain start permissive	Elevated	0.00	0.00	0.00	0.351641528	0.00
05-Apr-21	1.54	Draining of 1-E1504	Elevated	0.00	0.00	0.00	1.53587076	0.00
05-Apr-21	1.39	Draining of 1-E1505	Elevated	0.00	0.00	0.00	1.387407293	0.00
05-Apr-21	0.15	1-K1501 vented down for start	Elevated	0.00	0.00	0.00	0.151678777	0.00
06-Apr-21	7.14	Ethane firing on Mod 3 which was feeding offsites (10:50 - 11:50), Venting of MGEF	Elevated & Ground	0.45	0.09	5.79	0.8	0.01
07-Apr-21	0.95	Venting of ethane export to Grangemouth	Elevated	0.06	0.01	0.77	0.1064988	0.00
07-Apr-21	0.16	1-K1501 vented and N2 pruged	Elevated	0.00	0.00	0.00	0.155804348	0.00
07-Apr-21	1.69	V-7001 steam on to flare for sparging	Elevated	0.00	0.00	0.00	0	1.69
07-Apr-21	1.46	33-ESD-97 isolation	Elevated	0.00	0.00	0.00	0.044176083	1.42
07-Apr-21	0.04	1-53-P-005 opened	Elevated	0.00	0.00	0.00	0.040082829	0.00
08-Apr-21	6.79	1-53-P-005 opened, 1-V7001 sparging	Elevated	0.00	0.00	0.00	0.030776924	6.75
09-Apr-21	0.00	1-53-P-005 opened	Elevated	0.00	0.00	0.00	0.003398505	0.00

12-Apr-21	49.20	Total Plant Shutdown	Elevated	0.57	0.04	5.33	36.27896177	6.98
12-Apr-21	94.57	2-10-PC-50 and 3-10-PC-50 opened	Elevated	9.50	0.00	79.65	4.418623749	1.00
13-Apr-21	27.81	Total Plant Shutdown	Elevated	0.15	0.00	1.75	16.72370821	9.18
13-Apr-21	78.58	2-10-PC-50 and 3-10-PC-50 opened	Elevated	7.90	0.00	66.18	3.671419543	0.83
14-Apr-21	11.91	Total Plant Shutdown	Elevated	0.01	0.00	0.11	5.320236252	6.47
14-Apr-21	33.17	2-10-PC-50 and 3-10-PC-50 opened	Elevated	3.33	0.00	27.94	1.550022083	0.35
15-Apr-21	39.23	Total Plant Shutdown	Elevated & Ground	0.00	0.00	1.07	16.94702911	21.21
15-Apr-21	9.85	3-10-PC-50 opened	Elevated & Ground	0.99	0.00	8.30	0.460261955	0.10
17-Apr-21	18.48	Total Plant Shutdown	Ground	1.105577	0.01	6.70	7.070491656	3.59
17-Apr-21	3.23	2-C1001 draining	Ground	0.03	0.00	0.35	0.98920432	1.85
17-Apr-21	9.06	2-C1002 draining	Ground	0.00	0.00	0.00	1.604260218	7.46
17-Apr-21	3.12	2-C1003 draining	Ground	0.00	0.00	0.00	0.006760952	3.11
17-Apr-21	8.08	3-C-1001 draining	Ground	0.08	0.00	0.89	2.4730108	4.64
18-Apr-21	1.45	C3 export to Exxon and Avanti drained and purged.	Ground	0.00	0.00	0.02	1.38383737	0.04
18-Apr-21	1.63	3-V-1504 draining	Ground	0.00	0.00	0.00	1.6313302	0.00
18-Apr-21	3.17	2-E-1501 Draining	Ground	0.00	0.00	0.00	3.166685207	0.00
18-Apr-21	0.32	Gasoline Loading line purging	Ground	0.00	0.00	0.00	0	0.32
21-Apr-21	0.01	3-53-P-005 opened.	Ground	0.00	0.00	0.01	0.000495376	0.00
22-Apr-21	0.02	3-53-P-005 opened.	Ground	0.00	0.00	0.02	0.001127071	0.00
23-Apr-21	0.03	3-53-P-005 opened	Ground	0.00	0.00	0.00	0.025227367	0.00
24-Apr-21	0.01	3-53-P-005	Ground	0.00	0.00	0.00	0.014726857	0.00
24-Apr-21	0.42	2-K1501 gassed up and vented X3 and vented for start permissive	Ground	0.00	0.00	0.00	0.424812578	0.00
25-Apr-21	0.16	2-K1501 vented for start permissive	Elevated & Ground	0.00	0.00	0.00	0.160702144	0.00
25-Apr-21	2.32	3-15-LC-22 isolation drained and purge	Elevated	0.00	0.00	0.00	2.317083834	0.00
28-Apr-21	0.13	2-K1501 purged with N2	Elevated	0.00	0.00	0.00	0.125385316	0.00
28-Apr-21	4.81	2-E1501 drained	Elevated	0.00	0.00	0.00	4.811322895	0.00
28-Apr-21	0.40	2-V1506 pipework drained	Elevated	0.00	0.00	0.00	0.398133087	0.00
Monthly Sum Total	445.80			24.18	0.21	205.34	135.79	80.28

May-21								
Date (Gas day)	Mass Flared [tonnes]	Description of the Event	Flare Employed	Compositional breakdown [tonnes]				
				CO2	Methane	Ethane	Propane	Butane
Entire Month	6.74	Propane and butane boil off	Elevated	0.00	0.00	0.00	5.04	1.70
Cumulative	0.29	K-3301-A&B primary seal gas to flare	Elevated	0.00	0.00	0.00	0.00	0.29
01-May-21	8.99	2-C1001 venting	Elevated	0.90	0.00	7.57	0.42	0.10
01-May-21	15.11	NGL inlets draining	Elevated	0.13	0.00	1.26	6.54	7.18
05-May-21	0.98	2-K1501 gassed up and vented X3 and vented	Elevated	0.00	0.00	0.00	0.98	0.00
05-May-21	4.81	2-E1501 drained	Elevated	0.00	0.00	0.00	4.81	0.00
05-May-21	0.38	2-V1506 pipework drained	Elevated	0.00	0.00	0.00	0.38	0.00
05-May-21	0.11	2-53-PC-5, 3-53-PC-5 opened	Elevated	0.00	0.11	0.00	0.00	0.00
06-May-21	1.45	2-10-PC-50 opened for stroke check. 2-53-P-5 and 3-10-PC-52 opened	Elevated	0.02	0.00	0.71	0.27	0.44
06-May-21	58.21	3-10-PC-50 opened for start-up and whilst FEP is offline	Elevated	1.40	0.03	41.37	15.41	0.00
07-May-21	9.23	3-10-PC-50 opened	Elevated	0.93	0.00	7.77	0.43	0.10
08-May-21	6.37	3-10-PC-50 opened	Elevated	0.64	0.00	5.37	0.30	0.07
09-May-21	11.60	3-10-PC-50 opened	Elevated	1.17	0.00	9.77	0.54	0.12
10-May-21	9.63	3-10-PC-50 opened	Elevated	0.97	0.00	8.11	0.45	0.10
10-May-21	12.01	1-C-1001 HC purge x 1, 1-U1500 HC purge x 3	Elevated	0.00	0.00	2.87	9.13	0.01
12-May-21	0.03	1K1501 Casing vent	Elevated	0.00	0.00	0.00	0.03	0.00
12-May-21	1.84	3-10-PC-50 opened;	Elevated	0.19	0.00	1.55	0.09	0.02
12-May-21	0.01	2-70-PCV-3 opened	Elevated	0.00	0.00	0.00	0.01	0.00
13-May-21	4.05	1-53-PCV-5, 1-10-PCV-50, 1-10-PCV-51, 1-10-PCV-52 opened	Elevated	0.09	0.00	0.82	2.69	0.45
13-May-21	9.99	3-10-PCV-50 opened	Elevated	1.00	0.00	8.42	0.47	0.11
14-May-21	58.98	3-10-PCV-50 opened	Elevated	5.93	0.33	49.34	2.76	0.62
14-May-21	0.09	1K1501 Casing vent	Elevated	0.00	0.00	0.00	0.09	0.00
14-May-21	0.00	1-53-PCV-5	Elevated	0.00	0.00	0.00	0.00	0.00
15-May-21	4.64	1&3-10-PCV-50 opened	Elevated	0.47	0.03	3.89	0.22	0.04
16-May-21	7.65	1&3-10-PCV-50 opened	Elevated	0.77	0.04	6.43	0.36	0.05
16-May-21	0.80	HC purging of Mod 1 treater beds after TAR	Elevated	0.00	0.00	0.00	0.80	0.00
17-May-21	2.62	1&3-10-PCV-50 opened	Elevated	0.26	0.01	2.20	0.12	0.02
17-May-21	0.74	3-V-1303 level drained	Elevated	0.00	0.00	0.00	0.74	0.00
18-May-21	4.76	1&3-10-PCV-50 opened	Elevated	0.48	0.03	3.99	0.22	0.05
19-May-21	26.62	1&3-10-PCV-50 opened	Elevated	2.68	0.15	22.27	1.24	0.28
20-May-21	70.16	1&3-10-PCV-50 opened	Elevated	7.05	0.40	58.72	3.28	0.72
21-May-21	80.19	1&3-10-PCV-50 opened	Elevated	8.06	0.45	67.09	3.75	0.84
22-May-21	20.32	3-10-PCV-50 opened	Elevated	2.04	0.11	17.00	0.95	0.22
22-May-21	1.09	C3 export to Exxon and Avanti vented due to thermal expansion	Elevated	0.00	0.00	0.00	1.09	0.00
23-May-21	0.09	C3 export to Exxon and Avanti vented due to thermal expansion	Elevated	0.00	0.00	0.00	0.09	0.00
23-May-21	38.49	3-10-PCV-50 opened	Elevated	3.87	0.22	32.20	1.80	0.41
24-May-21	81.07	3-10-PCV-50 opened	Elevated	8.15	0.46	67.82	3.79	0.86
25-May-21	14.27	3-10-PCV-50 opened	Elevated	1.43	0.08	11.93	0.67	0.15
25-May-21	0.74	3-V1303 drained	Elevated	0.00	0.00	0.00	0.74	0.00
26-May-21	0.75	3-V1303 drained	Elevated	0.00	0.00	0.00	0.75	0.00
30-May-21	6.22	3-10-PCV-50 opened	Elevated	0.63	0.04	5.20	0.29	0.07
31-May-21	33.92	1&3-10-PCV-50 opened	Elevated	3.41	0.19	28.39	1.59	0.34
Monthly Sum Total	616.07			52.66	2.69	472.05	73.34	15.33

Jun-21

Date (Gas day)	Mass Flared [tonnes]	Description of the Event	Flare Employed	Compositional breakdown [tonnes]				
				CO2	Methane	Ethane	Propane	Butane
Entire Month	5.19	Propane and butane boil off	Elevated	0.00	0.00	0.00	4.09	1.10
Cumulative	0.26	K-3301-A&B primary seal gas to flare	Elevated	0.00	0.00	0.00	0	0.26
01-Jun-21	0.47	2K1501 gassed up for start-up of compressor	Elevated	0.00	0.00	0.00	0.465858398	0.00
01-Jun-21	3.82	Level drained E-1501	Elevated	0.00	0.00	0.00	3.821067801	0.00
01-Jun-21	1.35	Level drained E-1502	Elevated	0.00	0.00	0.00	1.354835732	0.00
01-Jun-21	0.04	3-V1303 level draining	Elevated	0.00	0.00	0.00	0.041160111	0.00
01-Jun-21	0.08	2-53-P-005 opened	Elevated	0.01	0.00	0.06	0.003256475	0.01
01-Jun-21	1.18	3-10-PCV-50 opened	Elevated	0.12	0.01	0.99	0.055388073	0.00
02-Jun-21	24.18	3-10-PCV-50 opened	Elevated	2.43	0.14	20.23	1.129982517	0.25
02-Jun-21	0.25	2K1501 vented for start-up of compressor	Elevated	0.00	0.00	0.00	0.247577197	0.00
02-Jun-21	0.13	2K1501N2 purged	Elevated	0.00	0.00	0.00	0.128769464	0.00
02-Jun-21	3.48	2E1501 level drained for Mod 2 TAR prep	Elevated	0.00	0.00	0.00	3.477399696	0.00
02-Jun-21	3.00	2E1505 level drained for Mod 2 TAR prep	Elevated	0.00	0.00	0.00	3.001245481	0.00
02-Jun-21	0.36	2-53-P-005 opened	Elevated	0.00	0.35	0.00	0	0.01
03-Jun-21	6.84	2C1003 and 2C1002 partially drained, 2-53-P-005 opened	Elevated	0.00	0.50	0.00	2.006831001	4.33
04-Jun-21	1.26	2-E-1502 drained	Elevated	0.00	0.00	0.00	1.258904164	0.00
04-Jun-21	0.49	2-53-P-005 opened	Elevated	0.05	0.00	0.40	0.022396138	0.01
04-Jun-21	4.57	3-10-PCV-50 opened	Elevated	0.46	0.03	3.83	0.214027521	0.04
05-Jun-21	0.10	C3 line to FEP vented due to high pressure X2	Elevated	0.00	0.00	0.00	0.101939691	0.00
05-Jun-21	0.48	2-53-P-005 opened	Elevated	0.05	0.00	0.39	0.022043297	0.01
05-Jun-21	1.37	3-10-PCV-50 opened	Elevated	0.14	0.01	1.15	0.064246548	0.01
06-Jun-21	0.78	C3 line to FEP vented due to high pressure X2	Elevated	0.00	0.00	0.00	0.780407935	0.00
06-Jun-21	0.49	2-53-P-005 opened	Elevated	0.05	0.00	0.41	0.022973021	0.01
07-Jun-21	3.96	2-V-1003 Drained for Mod 2 TAR	Elevated	0.00	0.00	0.00	0.067851622	3.89
07-Jun-21	0.48	2-53-P-005 opened	Elevated	0.05	0.00	0.40	0.022088463	0.01
07-Jun-21	28.23	3-10-PCV-50 opened	Elevated	2.84	0.16	23.62	1.319357541	0.29
08-Jun-21	0.46	2-53-P-005 opened	Elevated	0.05	0.00	0.38	0.021187736	0.01
08-Jun-21	23.02	3-10-PCV-50 opened	Elevated	2.31	0.13	19.27	1.076022632	0.24
09-Jun-21	1.47	2-V1301A&B drained, 2-53-P005 opened	Elevated	0.00	0.46	0.00	1.004445	0.01
09-Jun-21	6.27	3-10-PCV-50 opened	Elevated	0.63	0.04	5.25	0.293498332	0.06
10-Jun-21	4.21	2-C1001 vented and N2 purged, 2-53-P005 opened	Elevated	0.23	0.50	1.02	1.889392594	0.57
10-Jun-21	42.45	1&3-10-PCV-50 opened	Elevated	4.27	0.24	35.56	1.986301764	0.39
11-Jun-21	27.54	3-10-PCV-50 opened	Elevated	2.77	0.16	23.04	1.28657824	0.29
12-Jun-21	61.24	Class 2: 3-PC-50	Elevated	6.15	0.35	51.23	2.8655	0.65
13-Jun-21	41.31	Class 2: 3-PC-50	Elevated	4.15	0.23	34.56	1.9318	0.43
14-Jun-21	47.94	Class 2: 1 & 3-PC-50, 2-70-PC-3	Elevated	4.82	0.27	40.10	2.239888917	0.51
15-Jun-21	131.19	Class 2: 1 & 3-PC-50	Elevated	13.23	0.74	110.09	6.1524	0.98
16-Jun-21	200.33	Class 2: 1 & 3-PC-50	Elevated	20.20	1.14	168.18	9.393421161	1.41
17-Jun-21	185.35	Class 2: 1 & 3-PC-50	Elevated	18.69	1.05	155.60	8.690801433	1.32
18-Jun-21	168.81	Class 2: 1 & 3-PC-50	Elevated	17.03	0.96	141.75	7.916984864	1.16
20-Jun-21	0.73	3-V1303 level drained	Elevated	0.00	0.00	0.00	0.730838645	0.00
24-Jun-21	0.73	3-V1303 level drained	Elevated	0.00	0.00	0.00	0.73	0.00
25-Jun-21	0.73	3-V1303 level drained	Elevated	0.00	0.00	0.00	0.73	0.00
26-Jun-21	0.75	3-V1303 level drained	Elevated	0.00	0.00	0.00	0.75	0.00
29-Jun-21	0.01	1-53-P-005 opened	Elevated	0.00	0.00	0.00	0.011367375	0.00
Monthly Sum Total	1037.38			100.71	7.45	837.52	73.42	18.28

Jul-21								
Date (Gas day)	Mass Flared [tonnes]	Description of the Event	Flare Employed	Compositional breakdown [tonnes]				
				CO2	Methane	Ethane	Propane	Butane
Entire Month	6.81	Propane and butane boil off	Elevated	0.00	0.00	0.00	4.99	1.82
Cumulative	0.35	K-3301-A&B primary seal gas to flare	Elevated	0.00	0.00	0.00	0.00	0.35
02-Jul-21	0.13	TAR 2-K1501 vented from 5bar to 1bar	Elevated	0.00	0.00	0.00	0.13	0.00
05-Jul-21	7.03	2-PC-51 opened / Draining and venting of C-1001/1002 for	Elevated	0.00	0.00	7.03	0.00	0.00
06-Jul-21	6.55	2-PC-52 opened. Draining and venting of U1000, 1500	Elevated	0.00	0.00	3.40	3.15	0.00
07-Jul-21	1.75	Class 1: 2-10-PC-51 and 2-10-PC-52 opened	Elevated	0.00	0.00	0.00	0.48	1.27
	0.66	ted for restart and N2 purge after oil leak & high bearing	Elevated	0.00	0.00	0.00	0.66	0.00
08-Jul-21	1.17	32-PC-020 opened	Elevated	0.00	0.00	0.00	1.15	0.02
09-Jul-21	2.31	Class 1:: 3-V1303 level drained	Elevated	0.00	0.00	0.00	2.31	0.00
11-Jul-21	4.92	Class 1:: 3-V1303 level drained	Elevated	0.00	0.00	0.00	0.74	4.18
	0.00	V1301B purged for regen	Elevated	0.00	0.00	0.00	0.00	0.00
13-Jul-21	0.82	K1501 HC purged 3 times and vented down for permiss	Elevated	0.00	0.00	0.00	0.82	0.00
14-Jul-21	0.02	Class 1: 3-53-P-005 opened	Elevated	0.00	0.00	0.00	0.02	0.00
	0.44	3-K1501 N2 purged 3 times	Elevated	0.00	0.00	0.00	0.44	0.00
15-Jul-21	0.03	3-53-P-005	Elevated	0.00	0.00	0.00	0.03	0.00
	4.74	Class 1: 2-V-1301 purging for regen	Elevated	0.00	0.00	1.58	3.16	0.00
16-Jul-21	0.03	Class 1: 3-53-P-005 opened	Elevated	0.00	0.00	0.00	0.03	0.00
17-Jul-21	0.03	Class 1: 3-53-P-005 opened	Elevated	0.00	0.00	0.00	0.03	0.00
18-Jul-21	0.03	Class 1: 3-53-P-005 opened	Elevated	0.00	0.00	0.00	0.03	0.00
19-Jul-21	0.03	Class 1: 3-53-P-005 opened	Elevated	0.00	0.00	0.00	0.03	0.00
20-Jul-21	0.23	Class 1: 3-53-P-005 & 3-10-PC-52 opened	Elevated	0.00	0.00	0.00	0.01	0.22
25-Jul-21	0.05	Ethane stream 2 line vented from 17bar to 0bar for mete	Elevated	0.00	0.00	0.05	0.00	0.00
26-Jul-21	0.73	Class 1: 3-V1303 level drained	Elevated	0.00	0.00	0.00	0.73	0.00
27-Jul-21	0.81	1: 3-K1501 HC purged and vented for start up from slips	Elevated	0.00	0.00	0.00	0.81	0.00
28-Jul-21	0.17	Class 1: 1-K1501 N2 purged	Elevated	0.00	0.00	0.00	0.17	0.00
Monthly Sum Total	39.85			0.00	0.00	12.07	19.93	7.85

Aug-21								
Date (Gas day)	Mass Flared	Description of the Event	Flare Employed	Compositional breakdown [tonnes]				

	[tonnes]			CO2	Methane	Ethane	Propane	Butane
Entire Month	7.77	Propane and butane boil off	Elevated	0.00	0.00	0.00	6.45	1.32
Cumulative	0.34	K-3301-A&B primary seal gas to flare	Elevated	0.00	0.00	0.00	0.00	0.34
03-Aug-21	12.50	Draining of 2-C-1003 level to flare due to ESD	Elevated	0.00	0.00	0.00	0.00	12.50
04-Aug-21	0.43	2-K-1501 vented after trip	Elevated	0.00	0.00	0.00	0.43	0.00
05-Aug-21	0.02	1-K-1501 vented for module shutdown	Elevated	0.00	0.00	0.00	0.02	0.00
06-Aug-21	0.02	1-53-P-5 opened	Elevated	0.00	0.00	0.00	0.02	0.00
07-Aug-21	0.03	1-53-P-5 opened	Elevated	0.00	0.00	0.00	0.03	0.00
08-Aug-21	0.73	3V1303 drained down	Elevated	0.00	0.00	0.00	0.73	0.00
	0.02	1-53-P-005 opened	Elevated	0.00	0.00	0.00	0.02	0.00
09-Aug-21	0.74	3V1303 drained down	Elevated	0.00	0.00	0.00	0.74	0.00
	0.03	1-53-P-005 opened	Elevated	0.00	0.00	0.00	0.03	0.00
10-Aug-21	0.77	3V1303 drained down	Elevated	0.00	0.00	0.00	0.77	0.00
	0.03	1-53-P-005 opened	Elevated	0.00	0.00	0.00	0.03	0.00
11-Aug-21	0.03	1-53-P-005 opened	Elevated	0.00	0.00	0.00	0.03	0.00
	0.74	3V1303 drained down	Elevated	0.00	0.00	0.00	0.74	0.00
12-Aug-21	10.52	1C1003 drained down	Elevated	0.00	0.00	0.00	0.00	10.52
	0.02	1-53-P-005 opened and 2-70-PC-3 opened	Elevated	0.00	0.00	0.00	0.02	0.00
13-Aug-21	3.70	1C1001 drained down	Elevated	0.00	0.00	0.40	1.39	1.91
	0.01	1-53-P-005 opened	Elevated	0.00	0.00	0.00	0.01	0.00
14-Aug-21	0.74	3V1303 drained down	Elevated	0.00	0.00	0.00	0.74	0.00
16-Aug-21	0.72	3V1303 drained down	Elevated	0.00	0.00	0.00	0.72	0.00
18-Aug-21	0.74	3V1303 drained down	Elevated	0.00	0.00	0.00	0.73	0.01
22-Aug-21	1.49	3E-1504 drained	Elevated	0.00	0.00	0.00	1.49	0.00
	0.52	3E-1505 drained	Elevated	0.00	0.00	0.00	0.52	0.00
24-Aug-21	0.41	2S1301 drained for RV removal	Elevated	0.00	0.00	0.00	0.40	0.01
27-Aug-21	0.49	1K1501 vented for restart thrice	Elevated	0.00	0.00	0.00	0.49	0.00
28-Aug-21	0.38	2K1501 casing vented for purging	Elevated	0.00	0.00	0.00	0.38	0.00
	2.03	1K1501 RV lifted	Elevated	0.00	0.00	0.00	2.03	0.00
	0.50	1K1501 tripped	Elevated	0.00	0.00	0.00	0.50	0.00
29-Aug-21	0.25	2K1501 casing vented for purging	Elevated	0.00	0.00	0.00	0.25	0.00
Monthly Sum Total	46.71			0.00	0.00	0.40	19.70	26.60

Sep-21

Date (Gas day)	Mass Flared [tonnes]	Description of the Event	Flare Employed	Compositional breakdown [tonnes]				
				CO2	Methane	Ethane	Propane	Butane
Entire Month	3.23	Propane and butane boil off	Elevated	0.00	0.00	0.00	2.79	0.44
Cumulative	0.23	K-3301-A&B primary seal gas to flare	Elevated	0.00	0.00	0.00	0.00	0.232261
01-Sep-21	0.83	2E1505 drained	Elevated	0.00	0.00	0.00	0.83	0.00
	0.15	2K1501 vented	Elevated	0.00	0.00	0.00	0.15	0.00
	0.35	Butane tank PCV opened	Elevated	0.00	0.00	0.00	0.01	0.34
04-Sep-21	0.73	2V1303 drained	Elevated	0.00	0.00	0.00	0.73	0.00
13-Sep-21	0.73	3V1303 drained	Elevated	0.00	0.00	0.00	0.73	0.00
15-Sep-21	0.73	3V1303 drained	Elevated	0.00	0.00	0.00	0.73	0.00
16-Sep-21	1.75	2C1001 drained for start-up	Elevated	0.00	0.02	0.19	0.65	0.90
17-Sep-21	1.46	3V1303 drained twice	Elevated	0.00	0.00	0.00	1.46	0.00
18-Sep-21	0.73	3V1303 drained	Elevated	0.00	0.00	0.00	0.73	0.00
19-Sep-21	3.02	2C1001 drained for start-up	Elevated	0.00	0.00	0.32	1.14	1.56
20-Sep-21	0.73	3V1303 drained	Elevated	0.00	0.00	0.00	0.73	0.00
23-Sep-21	0.73	3V1303 drained	Elevated	0.00	0.00	0.00	0.73	0.00
24-Sep-21	0.73	3V1303 drained	Elevated	0.00	0.00	0.00	0.73	0.00
26-Sep-21	0.72	3V1303 drained	Elevated	0.00	0.00	0.00	0.72	0.00
Monthly Sum Total	16.84			0.00	0.02	0.51	12.84	3.46

Oct-21

Date (Gas day)	Mass Flared [tonnes]	Description of the Event	Flare Employed	Compositional breakdown [tonnes]				
				CO2	Methane	Ethane	Propane	Butane
Entire Month	6.92	Propane and butane boil off	Elevated	0.00	0.00	0.00	5.83	1.09
Cumulative	0.35	K-3301-A&B primary seal gas to flare	Elevated	0.00	0.00	0.00	0.00	0.35
04-Oct-21	0.50	3K1501 tripped	Elevated	0.00	0.00	0.00	0.50	0.00
06-Oct-21	0.74	3V1303 drained	Elevated	0.00	0.00	0.00	0.74	0.00
07-Oct-21	0.13	2K1501 casing vented for start-up	Elevated	0.00	0.00	0.00	0.13	0.00
	0.72	3V1303 drained	Elevated	0.00	0.00	0.00	0.72	0.00
08-Oct-21	0.72	3V1303 drained	Elevated	0.00	0.00	0.00	0.72	0.00
	0.17	1K1501 casing depressurized	Elevated	0.00	0.00	0.00	0.17	0.00
09-Oct-21	0.74	3V1303 drained	Elevated	0.00	0.00	0.00	0.74	0.00
10-Oct-21	1.23	1E1505 drained from 99% to 6%	Elevated	0.00	0.00	0.00	1.23	0.00
11-Oct-21	0.01	1-53-P-005 opened	Elevated	0.00	0.00	0.00	0.01	0.00
12-Oct-21	0.03	1-53-P-005 opened	Elevated	0.00	0.00	0.00	0.03	0.00
13-Oct-21	0.03	1-53-P-005 opened	Elevated	0.00	0.00	0.00	0.03	0.00
14-Oct-21	0.03	1-53-P-005 opened	Elevated	0.00	0.00	0.00	0.03	0.00
18-Oct-21	0.73	3V1303 drained	Elevated	0.00	0.00	0.00	0.73	0.00
20-Oct-21	0.75	3V1303 drained	Elevated	0.00	0.00	0.00	0.75	0.00
22-Oct-21	4.70	1C1001 drained	Elevated	0.00	0.00	0.50	1.76	2.43
	1.53	1E1504 drained,	Elevated	0.00	0.00	0.00	1.53	0.00
	0.01	1-53-P-005 opened	Elevated	0.00	0.00	0.00	0.01	0.00
25-Oct-21	0.68	Module 3 ESD test	Elevated	0.00	0.00	0.00	0.68	0.00
	1.50	2E1504 drained	Elevated	0.00	0.00	0.00	1.50	0.00
	0.70	2K1501 tripped and 3-53-P-005 opened	Elevated	0.00	0.00	0.00	0.70	0.00
26-Oct-21	0.39	3K1501 purged twice, 2V5501 purges on	Ground	0.00	0.00	0.00	0.39	0.00
27-Oct-21	4.04	TAR 3V1001 drained and purged, 2V5501 purges on	Ground	0.00	0.00	3.70	0.34	0.00
28-Oct-21	46.56	TAR 3C1001/2/3 drained, 2V5501 purges on	Ground	0.00	0.00	7.40	14.80	24.37

30-Oct-21	32.56	TAR U1500 drained and purged, 2V5501 purges on for 8 hrs	Ground & Elevated	0.00	0.00	0.00	31.67	0.89
Monthly Sum Total	106.50			0.00	0.00	11.61	65.75	29.14

Nov-21								
Date (Gas day)	Mass Flared [tonnes]	Description of the Event	Flare Employed	Compositional breakdown [tonnes]				
				CO2	Methane	Ethane	Propane	Butane
Entire Month	2.74	Propane and butane boil off	Elevated	0.00	0.00	0.00	2.61	0.13
Cumulative	0.47	K-3301-A&B primary seal gas to flare	Elevated	0.00	0.00	0.00	0.00	0.47
06-Nov-21	19.20	Mod3 purging before TAR	Elevated	0.12	0.01	0.17	14.11	4.79
21-Nov-21	0.23	2-70-PC-3 opened	Elevated	0.00	0.00	0.00	0.23	0.00
26-Nov-21	0.50	Flaring related 2 K-1501 trip	Elevated & Ground	0.00	0.00	0.00	0.50	0.00
27-Nov-21	25.37	TAR Mod-3 Purging	Ground	0.00	0.00	25.37	0.00	0.00
28-Nov-21	0.76	2V1303 drained.	Elevated & Ground	0.00	0.00	0.00	0.76	0.00
29-Nov-21	2.78	2V1003 drained for module start-up	Elevated	0.00	0.00	0.00	0.14	2.64
29-Nov-21	4.27	2-C1001 draining for Mod 2 start-up	Elevated	0.00	0.04	0.45	1.59	2.19
30-Nov-21	1.13	1K1501 tripped. 3K1501 tripped	Elevated	0.00	0.00	0.00	1.09	0.04
Monthly Sum Total	57.45			0.12	0.05	26.00	21.02	10.26

Dec-21								
Date (Gas day)	Mass Flared [tonnes]	Description of the Event	Flare Employed	Compositional breakdown [tonnes]				
				CO2	Methane	Ethane	Propane	Butane
Entire Month	18.50	Propane and butane boil off	Elevated	0.00	0.00	0.00	15.67	2.83
Cumulative	0.41	K-3301-A&B primary seal gas to flare	Elevated	0.00	0.00	0.00	0.00	0.41
01-Dec-21	3.83	1V1003 drained	Elevated	0.00	0.00	0.00	0.08	3.75
01-Dec-21	0.01	1-53-P-5 opened	Elevated	0.00	0.00	0.00	0.01	0.00
02-Dec-21	0.21	1E1505 drained	Elevated	0.00	0.00	0.00	0.21	0.00
04-Dec-21	0.02	2K1501 casing depressurized	Elevated	0.00	0.00	0.00	0.02	0.00
04-Dec-21	0.74	2V1303 level draining	Elevated	0.00	0.00	0.00	0.74	0.00
05-Dec-21	1.46	2V-1303 drained twice	Elevated	0.00	0.00	0.00	1.46	0.00
07-Dec-21	0.85	2C1003 drained	Elevated	0.00	0.00	0.00	0.00	0.85
08-Dec-21	0.25	2-53-PC-5 and 3-53-PC-5 opened	Elevated & Ground	0.00	0.00	0.00	0.24	0.00
09-Dec-21	6.73	Propane tanks PCV opened & 2-PC-50 opened	Elevated & Ground	0.67	0.04	5.61	0.40	0.00
15-Dec-21	0.07	2K1501 casing vented	Elevated	0.00	0.00	0.00	0.07	0.00
15-Dec-21	0.00	3-53-P-005 opened	Elevated	0.00	0.00	0.00	0.00	0.00
16-Dec-21	0.01	3-53-P-005 opened	Elevated	0.00	0.00	0.00	0.01	0.00
16-Dec-21	0.03	3K1501 casing vented	Elevated	0.00	0.00	0.00	0.03	0.00
17-Dec-21	0.17	2K1501 vented	Elevated	0.00	0.00	0.00	0.17	0.00
17-Dec-21	1.42	2V1303 level draining	Elevated	0.00	0.00	0.00	1.42	0.00
18-Dec-21	1.45	2V1303 drained twice	Elevated	0.00	0.00	0.00	1.45	0.00
19-Dec-21	0.73	2V1303 drained	Elevated	0.00	0.00	0.00	0.73	0.00
20-Dec-21	0.72	2V1303 drained	Elevated	0.00	0.00	0.00	0.72	0.00
21-Dec-21	0.72	2V1303 drained	Elevated	0.00	0.00	0.00	0.72	0.00
22-Dec-21	1.53	2V1303 drained twice	Elevated	0.00	0.00	0.00	1.53	0.00
23-Dec-21	0.73	2V1303 drained	Elevated	0.00	0.00	0.00	0.73	0.00
24-Dec-21	0.72	2V1303 drained	Elevated	0.00	0.00	0.00	0.72	0.00
25-Dec-21	0.73	2V1303 drained	Elevated	0.00	0.00	0.00	0.73	0.00
26-Dec-21	0.73	2V1303 drained	Elevated	0.00	0.00	0.00	0.73	0.00
27-Dec-21	0.77	2V1303 drained	Elevated	0.00	0.00	0.00	0.77	0.00
28-Dec-21	0.73	2V1303 drained	Elevated	0.00	0.00	0.00	0.73	0.00
29-Dec-21	0.73	2V1303 drained	Elevated	0.00	0.00	0.00	0.73	0.00
31-Dec-21	0.83	2V1303 drained	Elevated	0.00	0.00	0.00	0.83	0.00
Monthly Sum Total	45.84			0.67	0.04	5.61	31.66	7.85