

Daily Flare Monitoring Data - Bridgeton Landfill
August 2020

Date	Average Device Flow* (scfm)			Total Avg. Flow** (scfm)
	Utility Flare (FL-100)	Utility Flare (FL-120)	Utility Flare (FL-140)	
8/1/2020	34	0	1,044	1,079
8/2/2020	28	0	1,078	1,106
8/3/2020	60	0	1,035	1,095
8/4/2020	8	0	1,088	1,096
8/5/2020	53	0	1,059	1,112
8/6/2020	55	0	1,071	1,125
8/7/2020	58	0	1,053	1,111
8/8/2020	62	0	1,024	1,086
8/9/2020	860	0	0	860
8/10/2020	1,076	0	0	1,076
8/11/2020	1,069	0	0	1,069
8/12/2020	1,064	0	0	1,065
8/13/2020	1,059	0	0	1,059
8/14/2020	669	409	0	1,078
8/15/2020	1,068	0	0	1,068
8/16/2020	1,067	0	0	1,067
8/17/2020	1,087	0	0	1,087
8/18/2020	1,075	0	0	1,075
8/19/2020	680	400	0	1,080
8/20/2020	0	1,089	0	1,089
8/21/2020	0	1,098	0	1,098
8/22/2020	0	1,090	0	1,090
8/23/2020	0	1,086	0	1,086
8/24/2020	0	1,095	0	1,095
8/25/2020	108	968	0	1,077
8/26/2020	4	1,101	0	1,105
8/27/2020	1	1,127	0	1,128
8/28/2020	0	1,168	0	1,168
8/29/2020	0	1,136	0	1,136
8/30/2020	0	1,145	0	1,145
8/31/2020	0	1,128	0	1,128
AVERAGE	375	430	282	1,087

* Flows normalized to **Blower Outlet Flowmeter - EPA Method 2 measurement verified
 *** On 3/18/2016, the Bridgeton Landfill began separating the North Quarry gas to the Auxiliary Flare.
 On 10/8/19, the Bridgeton Landfill combined the North Quarry gas and the South Quarry Gas to the Main Flare

Flare Station Lab Data

South Quarry

Date	CH4	CO2	O2	N2	H2	CO (ppm)	Comments:
7/9/2019	15.0	38.0	5.7	32.0	7.6	270	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
7/16/2019	16.0	36.0	5.8	33.0	8.1	275	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
8/9/2019	17.6	40.5	4.6	27.9	8.2	330	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
9/9/2019	17.4	37.4	5.5	30.7	7.9	290	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
9/13/2019	17.4	37.2	5.6	30.5	8.1	290	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
10/9/2019	25.6	37.4	4.3	25.8	6.2	220	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
11/7/2019	24.7	37.5	4.6	26.2	6.4	205	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
12/5/2019	24.5	36.0	5.3	27.5	6.2	195	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
1/3/2020	25.0	36.0	5.2	27.5	5.9	200	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
2/6/2020	24.5	33.0	6.4	30.0	5.8	180	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
3/4/2020	23.5	38.0	5.3	28.0	5.1	160	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
4/6/2020	26.0	37.5	4.6	26.5	5.2	160	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
5/5/2020	23.5	36.5	5.4	28.5	4.9	145	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
6/3/2020	26.0	40.0	3.8	23.5	5.5	150	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
7/6/2020	26.0	40.0	3.7	24.0	5.3	150	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
8/4/2020	25.0	37.5	4.6	26.0	5.8	125	Gas concentrations based on average of Blower Outlet A and Blower Outlet B
9/3/2020	28.5	40.0	3.7	21.5	6.0	130	Gas concentrations based on average of Blower Outlet A and Blower Outlet B

North Quarry

Date	CH4	CO2	O2	N2	H2	CO (ppm)	Comments:
7/9/2019	48.0	40.0	ND	9.5	0.50	ND	Gas concentrations based on average of NQ EP14 A and EP14 B
8/9/2019	45.9	36.2	2.4	14.4	ND	ND	Gas concentrations based on average of NQ EP14 A and EP14 B
9/9/2019	49.2	36.7	2.1	11.7	0.32	ND	Gas concentrations based on average of NQ EP14 A and EP14 B

Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./V ac.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
8/1/2019	16.4	37.9	5.1	40.6	10.23	87	51.8	37.7	0.7	9.8	0.58	83.5	0	934	0	934	265	1199
8/2/2019	16.6	37.5	5	40.9	10.48	86	51.9	37.9	0.7	9.5	0.84	83.5	0	919	0	919	280	1199
8/3/2019													0	906	0	906	291	1196
8/4/2019													0	909	0	909	291	1200
8/5/2019	17.5	38.6	4.4	39.5	10.14	91	51.7	37.3	0.5	10.5	0.87	87.8	0	928	0	928	223	1151
8/6/2019	19.4	39.9	4.5	36.2	10.89	89	52.6	38.1	0.8	8.5	1.09	83.3	0	932	0	932	269	1201
8/7/2019	19.6	39.7	4.5	36.2	9.88	93	53.6	38.2	0.6	7.6	0.96	88.6	0	911	0	911	293	1204
8/8/2019	18.2	40.6	4.2	37	10.23	92	51.3	39.9	0.7	8.1	0.69	87.7	0	929	0	929	279	1208
8/9/2019	19.2	39.6	4.4	36.8	11.19	94	51.8	37.5	0.9	9.8	0.86	89.3	0	925	0	925	296	1221
8/10/2019													0	931	0	931	295	1226
8/11/2019													0	894	0	894	281	1175
8/12/2019	18.3	38.9	4.3	38.5	9.89	93	51.9	36.9	0.8	10.4	0.95	86.3	0	902	0	902	290	1191
8/13/2019	17.7	40	4.6	37.7	9.34	91	51.7	37.9	0.8	9.6	1.27	85.4	0	886	0	886	297	1183
8/14/2019	17.5	39.4	4.4	38.7	9.47	93	51.4	38.2	0.6	9.8	1.09	88.8	0	907	0	907	299	1206
8/15/2019	16.9	38.4	4.6	40.1	8.96	88	51.3	37.6	0.8	10.3	0.7	84.2	0	891	0	891	293	1184
8/16/2019	15.6	33.8	6.5	44.1	9.59	91	51.9	38.2	0.9	9	1.01	86.3	0	967	0	967	282	1249
8/17/2019													0	1,081	0	1081	282	1363
8/18/2019													0	1,051	0	1051	282	1332
8/19/2019	13.6	29.5	8.8	48.1	10.52	96.7	51.5	37.3	0.7	10.5	1.02	89.2	0	1,065	0	1065	287	1352
8/20/2019	13.2	30.4	9	47.4	9.89	99	50.9	38	0.8	10.3	1.33	92.7	0	939	0	939	278	1217
8/21/2019	13.2	29.3	9.4	48.1	10.48	91	51.6	37.8	0.7	9.9	1.14	88.9	0	1,015	0	1015	293	1308
8/22/2019	14.5	32.8	8.8	43.9	10.95	91	52	38.7	0.7	8.6	0.96	86.2	0	954	0	954	294	1248
8/23/2019	15.9	35.8	7.5	40.8	9.51	86	51.6	38.9	0.7	8.8	1.06	84.7	0	871	0	871	299	1170
8/24/2019													0	841	0	841	299	1140
8/25/2019													0	841	0	841	290	1130
8/26/2019	18.3	39.2	5.9	36.6	9.56	86	52.8	38.4	0.6	8.2	0.74	82.6	0	840	0	840	271	1111
8/27/2019	11.4	25.3	11.2	52.1	10.44	88	51.6	37.7	0.7	10	0.99	85.1	0	921	0	921	273	1193
8/28/2019	17	36.9	6.3	39.8	9.13	84	51.8	37.1	0.9	10.2	1.13	79.9	0	835	0	835	280	1114
8/29/2019	18.6	41	4.8	35.6	9.81	83	52	39	0.8	8.2	1.05	84	0	851	0	852	280	1131
8/30/2019	18.3	40.8	5	35.9	9.47	93	51.6	38.4	0.9	9.1	1.11	88.2	0	840	0	840	265	1105
8/31/2019													0	840	0	840	263	1103
9/1/2019													0	842	0	842	264	1106
9/2/2019													0	862	0	862	343	1205
9/3/2019	19.9	39.5	4.6	36	9.79	92.9	52.7	38.8	0.5	8	1.17	96.4	0	875	0	875	306	1181
9/4/2019	17.8	39.8	5.2	37.2	9.81	92	51.7	38	0.8	9.5	1.02	87.7	0	864	0	865	282	1147
9/5/2019	18.7	38.5	5.1	37.7	9.96	83	52.3	37.9	0.9	8.9	1.25	82	0	878	0	878	284	1162
9/6/2019	18.4	41.4	4.7	35.5	9.51	89	52.4	39	0.4	8.2	1.09	86.6	0	891	0	891	284	1175
9/7/2019													0	891	0	891	279	1170
9/8/2019													0	865	0	865	272	1137
9/9/2019	18	40.6	4.8	36.6	9.47	87	51.9	38.4	0.6	9.1	1.06	84.4	0	891	0	891	279	1170
9/10/2019	17.7	40.1	5.1	37.1	9.77	94	51.7	38.9	0.6	8.8	0.69	88.4	287	641	0	929	280	1209
9/11/2019	17.9	40.2	5	36.9	10.15	95	51.9	39.2	0.5	8.4	1.1	88.4	0	923	0	923	292	1215
9/12/2019	17.8	38.4	5.1	38.7	10.62	95.5	52.2	38.2	0.8	8.8	1.43	90.1	0	930	0	930	219	1149
9/13/2019	18	39.9	5.2	36.9	10.15	95	52.1	38.4	0.8	8.7	1.28	88.7	0	906	0	906	295	1201
9/14/2019													0	897	0	897	297	1195
9/15/2019													0	908	0	908	300	1208
9/16/2019	18.2	39.2	4.7	37.9	10.74	94	51.5	38.1	0.6	9.8	1.1	88.4	0	1,045	0	1045	172	1217
9/17/2019	26.2	38.5	3.9	31.4	11.5	93	52.8	38.9	0.5	7.8	1.39	116.3	0	1,085	0	1085	121	1206
9/18/2019	18	40.4	4.8	36.8	10.19	93	51.5	38	0.7	9.8	1.02	86.3	0	922	0	923	300	1223
9/19/2019	17.8	40.2	5	37	9.81	91.6	51.3	38.7	0.7	9.3	0.66	86.5	0	927	0	927	302	1229

Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./V ac.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
9/20/2019	18.2	39.1	4.8	37.9	10.15	94	51.3	37.8	0.5	10.4	1.3	88	0	900	0	900	298	1198
9/21/2019													0	892	0	892	296	1188
9/22/2019													0	885	0	885	295	1179
9/23/2019	17.7	37.8	5.4	39.1	9.89	85	50.2	36.9	1.3	11.6	1.13	81.2	0	891	0	891	285	1176
9/24/2019	17.6	38.9	5	38.5	10.15	82	50.9	37.3	0.9	10.9	1.12	82.1	0	883	0	883	285	1168
9/25/2019	18.5	39.8	4.9	36.8	9.81	85	52.1	38.4	0.4	9.1	1.12	83.3	0	880	0	880	280	1160
9/26/2019	17.7	39.8	5.6	36.9	10.15	82	51.3	38.2	0.6	9.9	1.26	78.7	0	873	0	873	279	1152
9/27/2019	18.7	41	4.8	35.5	9.81	83	51.8	39	0.7	8.5	0.68	80.9	0	890	0	890	286	1176
9/28/2019													0	869	0	869	287	1156
9/29/2019													0	884	0	884	291	1176
9/30/2019	17.8	39.2	5.2	37.8	10.15	92	50.7	37.9	0.7	10.7	1.24	87	0	899	0	899	296	1195
10/1/2019	17.9	39.2	5.1	37.8	9.81	93	50.6	38.5	0.8	10.1	1.57	87.7	0	912	0	912	300	1211
10/2/2019	17.5	36.7	5.4	40.4	10.19	92	50.6	37.1	0.8	11.5	1	86.6	0	900	0	900	301	1201
10/3/2019	17.3	39	5.7	38	9.85	91	50.5	38	0.8	10.7	1.25	85.4	0	870	0	870	289	1159
10/4/2019	16.4	36.9	6.1	40.6	9.47	70	50.3	37.8	0.7	11.2	1.14	69.5	0	869	0	869	291	1160
10/5/2019													0	878	0	878	293	1171
10/6/2019													0	860	0	860	286	1147
10/7/2019	16.9	37.5	6.1	39.5	9.81	70	50.4	37.7	0.9	11	0.93	68.9	0	875	0	875	290	1165
10/8/2019	17	36.8	5.8	40.4	9.89	69	48.6	35.7	1.5	14.2	0.72	68.3	0	1,054	0	1054	94	1148
10/9/2019	25.2	38.3	4.5	32	10.36	70							0	1,147	0	1147		1147
10/10/2019	24.9	36.5	4.6	34	11.23	81.7							0	1,134	0	1134		1134
10/11/2019	25.8	37.1	4.6	32.5	10.74	70.5							0	1,079	0	1079		1079
10/12/2019													0	1,069	0	1070		1070
10/13/2019													0	1,108	0	1108		1108
10/14/2019	24.4	35.9	4.9	34.8	10.49	63							0	1,122	0	1122		1122
10/15/2019	26.1	38.1	4.2	31.6	10.53	73							0	1,110	0	1110		1110
10/16/2019	24.9	35.9	5.1	34.1	10.47	62.1							0	1,093	0	1093		1093
10/17/2019	24.4	35.7	4.9	35	10.49	58							0	1,115	0	1115		1115
10/18/2019	24.9	36.7	4.6	33.8	10.82	64							0	1,129	0	1129		1129
10/19/2019													0	1,128	0	1128		1128
10/20/2019													0	1,131	0	1131		1131
10/21/2019	26.7	39.6	3.7	30	10.57	78							0	1,114	0	1114		1114
10/22/2019	25.1	36.4	4.6	33.9	10.27	67							183	852	0	1035		1035
10/23/2019	24.6	37.2	4.7	33.5	10.61	61							0	1,109	0	1109		1109
10/24/2019	23.7	35.4	5.1	35.8	10.49	68							0	1,063	0	1063		1063
10/25/2019	25.6	37.1	4.3	33	10.61	63							0	1,030	0	1030		1030
10/26/2019													0	999	0	1000		1000
10/27/2019													22	627	14	663		663
10/28/2019	28.4	42.1	2.9	26.6	9.81	69							446	380	0	825		825
10/29/2019	27.1	37.8	3.6	31.5	12.39	59							1,008	0	0	1009		1009
10/30/2019	27.2	39.7	3.5	29.6	10.49	53							1,009	0	0	1009		1009
10/31/2019	27.4	37.9	3.8	30.9	14.55	50							1,006	0	0	1006		1006
11/1/2019	25.1	36.6	4.7	33.6	12.52	46							489	545	0	1034		1034
11/2/2019													0	1,029	0	1029		1029
11/3/2019													0	1,047	0	1047		1047
11/4/2019	26.6	38.3	4	31.1	10.06	62							0	1,043	0	1043		1043
11/5/2019	25.4	38	4.3	32.3	10.49	61							0	1,043	0	1043		1043
11/6/2019	26.1	37.3	4.1	32.5	10.53	60							0	1,055	0	1055		1055
11/7/2019	24	34	5.6	36.4	9.64	52							0	1,005	0	1005		1005
11/8/2019													0	1,001	0	1001		1001

Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./V ac.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
11/9/2019												0	1,058	0	1058		1058	
11/10/2019	26.6	39.3	3.6	30.5	10.49	90.3						0	1,058	0	1058		1058	
11/11/2019	23.8	36.4	5.7	34.1	9.94	55						0	1,018	0	1018		1018	
11/12/2019	22.7	34.6	6.3	36.4	10.02	30.5						0	989	0	989		989	
11/13/2019	25.2	38.1	4.7	32	9.85	33						0	1,022	0	1023		1023	
11/14/2019	25.2	36.1	5.1	33.6	10.49	48						0	1,037	0	1037		1037	
11/15/2019	23.9	36.5	5.3	34.3	10.15	42						0	1,053	0	1054		1054	
11/16/2019												0	1,061	0	1061		1061	
11/17/2019												0	1,051	0	1051		1051	
11/18/2019	25.1	37.5	4.7	32.7	10.49	58						0	1,048	0	1048		1048	
11/19/2019	24.8	37.6	4.7	32.9	10.36	62						0	1,058	0	1058		1058	
11/20/2019	23.2	34.7	5.6	36.5	10.44	56						0	1,070	0	1070		1070	
11/21/2019	25.7	38.6	4.6	31.1	10.7	67						0	1,078	0	1078		1078	
11/22/2019	23.8	35.4	5.5	35.3	10.44	53						0	1,060	0	1060		1060	
11/23/2019												0	1,059	0	1059		1059	
11/24/2019												0	1,071	0	1071		1071	
11/25/2019	24.9	36.9	4.9	33.3	10.49	60.5						0	1,095	0	1095		1095	
11/26/2019	25.2	36.6	4.7	33.5	10.7	60.3						0	1,114	0	1114		1114	
11/27/2019	23.1	32.9	6.1	37.9	10.23	59.3						0	1,064	0	1064		1064	
11/28/2019												0	1,124	0	1124		1124	
11/29/2019	25.6	36.3	4.7	33.4	10.49	53.6						84	998	0	1082		1082	
11/30/2019												0	983	0	983		983	
12/1/2019												0	1,063	0	1063		1063	
12/2/2019	24.1	35.3	5.7	34.9	10.15	46.9						496	518	0	1014		1014	
12/3/2019	24.8	35.3	4.9	35	10.87	45						453	444	23	919		919	
12/4/2019	23.9	35.1	5.2	35.8	12.18	55.3						0	1,085	0	1085		1085	
12/5/2019	23.8	35.6	5.5	35.1	10.15	51.7						0	1,076	0	1076		1076	
12/6/2019	23.9	34.6	5.5	36	11.04	62.3						46	1,008	0	1054		1054	
12/7/2019												0	1,064	0	1064		1064	
12/8/2019												0	1,060	0	1060		1060	
12/9/2019	25.8	38	4.2	32	10.15	64.9						0	1,046	0	1046		1046	
12/10/2019	22.7	29.9	6.6	40.8	10.53	39.4						0	1,025	0	1025		1025	
12/11/2019	22.9	33.9	5.9	37.3	10.49	39.3						0	1,048	0	1048		1048	
12/12/2019	23.9	35.1	5.2	35.8	10.49	51.6						0	1,058	0	1058		1058	
12/13/2019	25.4	36.4	4.6	33.6	10.61	54.2						0	1,060	0	1060		1060	
12/14/2019												0	1,033	0	1033		1033	
12/15/2019												0	1,022	0	1022		1022	
12/16/2019	24.7	36	5.3	34	10.49	43						0	1,016	0	1016		1016	
12/17/2019	23.4	35.4	5.8	35.4	10.49	41						0	1,017	0	1017		1017	
12/18/2019	23.7	34.9	5.8	35.6	10.15	37.8						0	1,033	0	1033		1033	
12/19/2019	23.8	34.8	5.8	35.6	10.7	40.2						0	1,044	0	1044		1044	
12/20/2019	24.5	34	5.5	36	10.17	46						0	1,044	0	1044		1044	
12/21/2019												0	1,046	0	1046		1046	
12/22/2019												0	1,055	0	1055		1055	
12/23/2019	24.8	36.5	5.2	33.5	10.57	49.8						0	1,072	0	1072		1072	
12/24/2019	25.7	35.2	5.2	33.9	10.22	53.7						0	1,066	0	1066		1066	
12/25/2019												0	1,073	0	1073		1073	
12/26/2019	25.3	35.4	4.9	34.4	10.57	70.1						0	1,000	0	1000		1000	
12/27/2019	24.8	33.5	5.5	36.2	10.3	57.4						0	1,057	0	1057		1057	
12/28/2019												0	1,069	0	1069		1069	

Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./V ac.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
12/29/2019												0	1,050	0	1050		1050	
12/30/2019	25.4	35.4	5	34.2	10.49	52.2						0	1,029	0	1029		1029	
12/31/2019	25.8	35.1	5.1	34	11.65	50.4						0	1,022	0	1022		1022	
1/1/2020												0	1,047	0	1047		1047	
1/2/2020	25.8	37	4.8	32.4	10.49	57.4						0	1,046	0	1046		1046	
1/3/2020	24.9	34.2	5.2	35.7	10.49	57.4						0	1,038	0	1038		1038	
1/4/2020												0	1,028	0	1028		1028	
1/5/2020												0	1,039	0	1039		1039	
1/6/2020	23.5	33.7	5.9	36.9	10.49	47						0	1,038	0	1038		1038	
1/7/2020	23.9	35	5.4	35.7	10.49	48.9						0	1,033	0	1034		1034	
1/8/2020	23	31.6	6	39.4	10.19	48.2						0	1,076	0	1076		1076	
1/9/2020	24.8	36	5.1	34.1	10.61	61.9						0	1,129	0	1129		1129	
1/10/2020	25.6	35.8	4.7	33.9	10.53	68.9						0	1,130	0	1130		1130	
1/11/2020												0	1,076	0	1076		1076	
1/12/2020												0	1,053	0	1054		1054	
1/13/2020	24.4	33.4	5.6	36.6	10.15	47.5						0	1,071	0	1071		1071	
1/14/2020	24.9	35	5.3	34.8	10.15	49.7						0	1,088	0	1088		1088	
1/15/2020	25.3	36.5	5.1	33.1	10.74	60.9						0	1,100	0	1100		1100	
1/16/2020	22.1	32.2	6.8	38.9	10.49	39.3						0	1,067	0	1067		1067	
1/17/2020	26.2	34.5	5.4	33.9	9.62	42.8						0	1,064	0	1065		1065	
1/18/2020												0	1,063	0	1064		1064	
1/19/2020												0	1,023	0	1024		1024	
1/20/2020	23.3	32	6.8	37.9	9.64	32						0	1,026	0	1026		1026	
1/21/2020	24.5	34.4	5.9	35.2	10.15	35.1						0	1,054	0	1055		1055	
1/22/2020	25.1	34.4	5.6	34.9	10.78	39.7						0	1,061	0	1062		1062	
1/23/2020	26.3	35.5	4.8	33.4	10.49	46.9						0	1,056	0	1056		1056	
1/24/2020	26.5	36.8	4.8	31.9	10.49	48.7						0	1,047	0	1047		1047	
1/25/2020												0	1,039	0	1040		1040	
1/26/2020												0	1,054	0	1054		1054	
1/27/2020	25.5	34.3	5.4	34.8	10.49	46.6						0	1,054	0	1054		1054	
1/28/2020	25.6	33.9	5.5	35	10.7	46						0	1,059	0	1059		1059	
1/29/2020	25.5	34.1	5.4	35	10.57	45.6						0	1,053	0	1053		1053	
1/30/2020	25.2	35.4	5.5	33.9	10.7	46.9						0	1,051	0	1051		1051	
1/31/2020	26.1	36.2	5.1	32.6	10.15	51.8						0	1,052	0	1053		1053	
2/1/2020												0	1,057	0	1057		1057	
2/2/2020												0	1,077	0	1077		1077	
2/3/2020	26.9	37.5	4.6	31	10.82	58.2						0	1,084	0	1084		1084	
2/4/2020	25.5	35.1	5.4	34	10.19	58.2						0	1,055	0	1055		1055	
2/5/2020	26.1	35	5.1	33.8	9.92	48.1						0	1,055	0	1055		1055	
2/6/2020	26.7	35.5	5	32.8	10.02	42.7						0	1,053	0	1053		1053	
2/7/2020	25.3	34.5	5.6	34.6	10.49	42.5						0	1,041	0	1042		1042	
2/8/2020												0	1,053	0	1054		1054	
2/9/2020												0	1,072	0	1072		1072	
2/10/2020	24.2	31.9	5.8	38.1	10.25	50.1						0	1,063	0	1063		1063	
2/11/2020	24.5	34.3	5.4	35.8	10.25	49.9						0	1,061	0	1061		1061	
2/12/2020	26.3	35.9	4.8	33	10.31	50.3						0	1,050	0	1051		1051	
2/13/2020	24.7	31.4	6.1	37.8	9.88	38.8						0	989	0	990		990	
2/14/2020	23.5	31.3	7	38.2	10.43	30						0	981	0	982		982	
2/15/2020												0	1,032	0	1032		1032	
2/16/2020												0	1,057	0	1057		1057	

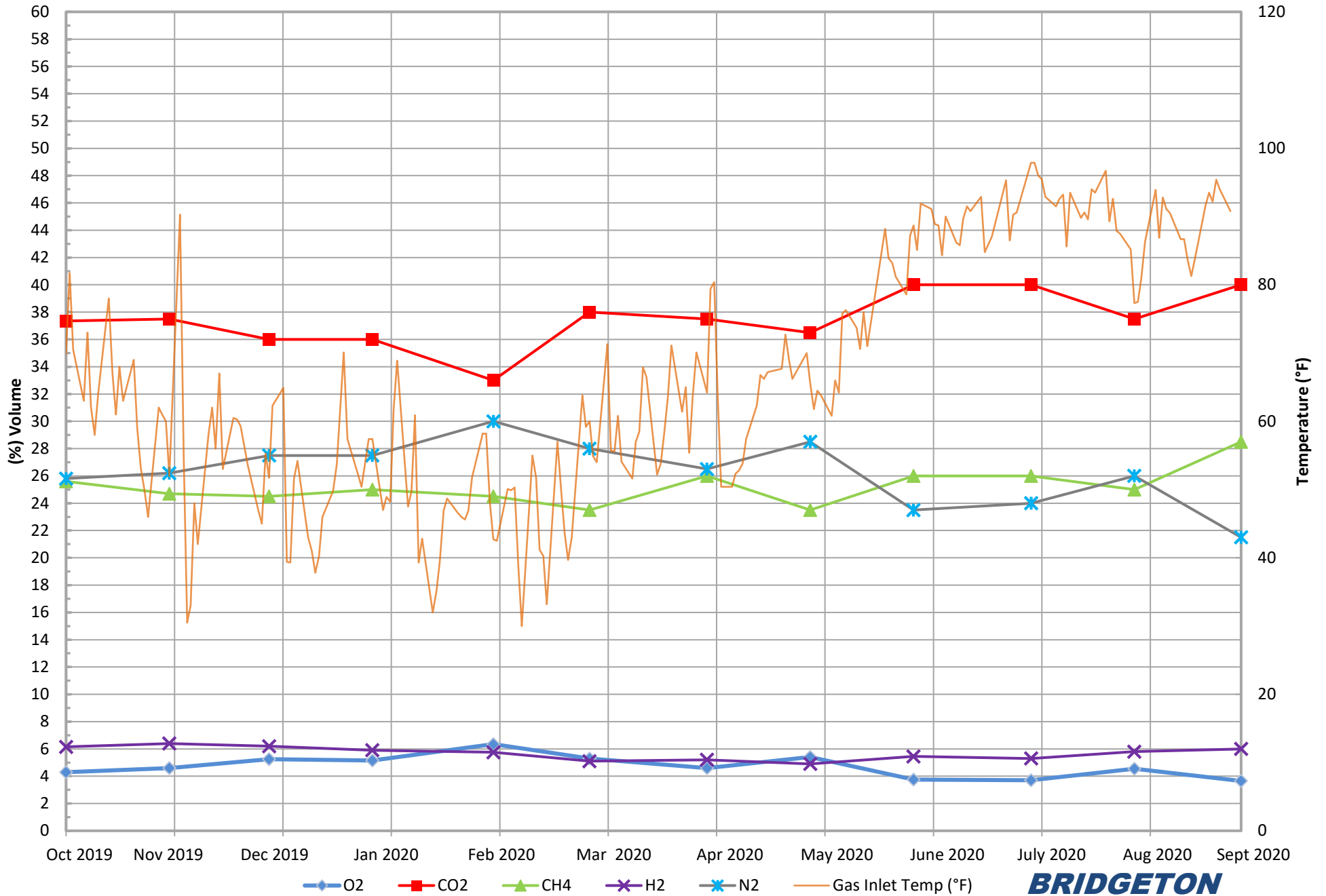
Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./V ac.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
2/17/2020	26.3	35.2	4.8	33.7	10.07	55						0	1,070	0	1070		1070	
2/18/2020	24.5	33.4	5.6	36.5	10.25	51.7						0	1,042	0	1043		1043	
2/19/2020	23.5	32.3	6.1	38.1	10.27	41.2						0	1,049	0	1049		1049	
2/20/2020	24.9	33.3	5.8	36	9.92	40.3						0	1,051	0	1052		1052	
2/21/2020	23.4	33.3	5.7	37.6	9.68	33.2						0	1,074	0	1074		1074	
2/22/2020												0	1,088	0	1088		1088	
2/23/2020												0	1,095	0	1095		1095	
2/24/2020	26.5	36.4	4.4	32.7	10.14	57						0	1,085	0	1085		1085	
2/25/2020	25.4	35.4	5	34.2	9.51	50						0	1,064	0	1064		1064	
2/26/2020	24.1	33.1	5.6	37.2	9.81	43.7						0	1,065	0	1065		1065	
2/27/2020	24.3	32.9	5.6	37.2	9.68	39.7						0	1,070	0	1071		1071	
2/28/2020	24.5	33.7	5.5	36.3	9.81	43						0	1,072	0	1072		1072	
2/29/2020												0	1,087	0	1087		1087	
3/1/2020												0	1,130	0	1131		1131	
3/2/2020	24.4	34.6	5.4	35.6	10.14	63.8						0	1,113	0	1113		1113	
3/3/2020	25	33.7	5.2	36.1	10.68	59.2						0	1,101	0	1101		1101	
3/4/2020	24.2	34.8	5.4	35.6	10.31	60						0	1,122	0	1122		1122	
3/5/2020	24.2	33.9	5.4	36.5	10.74	54.9						0	1,102	0	1102		1102	
3/6/2020	23	32.1	6	38.9	10.56	54						0	1,080	0	1080		1080	
3/7/2020												0	1,098	0	1099		1099	
3/8/2020												0	1,120	0	1120		1120	
3/9/2020	25.1	35.2	5	34.7	10.31	71.3						0	1,115	0	1115		1115	
3/10/2020	24.3	33.8	5.4	36.5	10.13	55.7						0	1,067	0	1067		1067	
3/11/2020	26	34.2	4.8	35	9.95	55.6						0	1,092	0	1092		1092	
3/12/2020	26.6	37.2	4.2	32	10.19	60.8						0	1,075	0	1075		1075	
3/13/2020	24.1	34.4	5.6	35.9	10.07	54.1						0	1,040	0	1040		1040	
3/14/2020												0	1,048	0	1048		1048	
3/15/2020												0	1,045	0	1045		1045	
3/16/2020	26.5	36	4.8	32.7	10.02	51.6						0	1,057	0	1057		1057	
3/17/2020	25.7	37.1	5.1	32.1	9.81	57						0	1,064	0	1064		1064	
3/18/2020	27.5	37.4	4.1	31	9.89	58.5						0	1,072	0	1072		1072	
3/19/2020	28.9	38.9	3.6	28.6	9.96	67.9						0	1,092	0	1092		1092	
3/20/2020	25.2	34.8	5.4	34.6	9.81	66.5						0	1,057	0	1057		1057	
3/21/2020												0	1,055	0	1055		1055	
3/22/2020												0	1,062	0	1062		1062	
3/23/2020	26.2	35.3	5	33.5	9.85	52.2						0	1,051	0	1051		1051	
3/24/2020	27.1	37.1	4.7	31.1	9.94	53.8						0	1,048	0	1048		1048	
3/25/2020	27.3	37.2	4.4	31.1	9.56	58.3						0	1,068	0	1068		1068	
3/26/2020	27.3	37.8	4.4	30.5	10.27	63.7						0	1,095	0	1095		1095	
3/27/2020	27.8	37.9	4.2	30.1	9.81	71.1						0	1,101	0	1101		1101	
3/28/2020												0	1,051	0	1051		1051	
3/29/2020												0	1,078	0	1078		1078	
3/30/2020	25.5	36.1	5.3	33.1	10.49	61.4						0	1,090	0	1090		1090	
3/31/2020	26.7	37.6	4.6	31.1	10.49	65						57	1,033	0	1089		1089	
4/1/2020	26.2	36.2	4.7	32.9	10.49	55.4						0	983	0	983		983	
4/2/2020	26.3	37.5	4.4	31.8	9.85	63.6						0	947	0	947		947	
4/3/2020	27.1	37.5	4.2	31.2	10.61	70.1						0	954	0	954		954	
4/4/2020												0	927	0	928		928	
4/5/2020												0	923	0	923		923	
4/6/2020	26.9	36.5	4.3	32.3	10.44	64.2						0	957	0	957		957	

Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./V ac.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
4/7/2020	27.5	38.4	3.8	30.3	10.57	79.4							0	985	0	985		985
4/8/2020	27.1	37.9	4	31	10.44	80.4							0	1,076	0	1076		1076
4/9/2020	25.9	36	4.8	33.3	10.36	64							0	1,071	0	1071		1071
4/10/2020	25.7	34.7	5.1	34.5	9.71	50.4							0	1,078	0	1078		1078
4/11/2020													0	1,085	0	1085		1085
4/12/2020													0	1,064	0	1064		1064
4/13/2020	25	34.7	5.4	34.9	10.02	50.4							0	1,010	0	1010		1010
4/14/2020	25.5	35.8	5.1	33.6	9.81	52.3							0	1,056	0	1057		1057
4/15/2020	26.1	35.8	4.6	33.5	10.57	52.8							0	1,057	0	1057		1057
4/16/2020	25.2	35.5	5.1	34.2	10.32	53.8							0	1,064	0	1064		1064
4/17/2020	27.8	37.4	4.1	30.7	10.3	57.4							0	1,062	0	1062		1062
4/18/2020													0	1,075	0	1075		1075
4/19/2020													0	1,087	0	1087		1087
4/20/2020	26.2	36.4	4.7	32.7	10.02	62.3							0	1,101	0	1102		1102
4/21/2020	25.6	35	4.9	34.5	10.23	66.8							178	901	0	1079		1079
4/22/2020	26.6	37.6	4.1	31.7	10.82	66.2							0	1,087	0	1087		1087
4/23/2020	27.6	38.1	3.9	30.4	10.49	67.2							0	1,069	0	1069		1069
4/24/2020													0	1,084	0	1084		1084
4/25/2020													0	1,052	0	1052		1052
4/26/2020													0	1,068	0	1068		1068
4/27/2020	25.6	36.5	5	32.9	10.57	67.7							0	1,088	0	1088		1088
4/28/2020	26.8	37.6	4.1	31.5	10.32	72.7							0	1,124	0	1124		1124
4/29/2020	26.7	37.9	4.3	31.1	11.08	69.1							0	1,085	0	1085		1085
4/30/2020	26.4	36.4	4.5	32.7	12.73	66.2							0	1,085	0	1085		1085
5/1/2020	26.7	35.8	4.2	33.3	10.26	67.2							152	942	0	1095		1095
5/2/2020													0	1,125	0	1125		1125
5/3/2020													0	1,159	0	1159		1159
5/4/2020	25.6	36.3	4.6	33.5	10.61	70							197	913	0	1110		1110
5/5/2020	26.2	35.8	4.6	33.4	9.98	65.6							129	941	0	1070		1070
5/6/2020	25.6	35.6	4.7	34.1	10.02	61.8							0	1,081	0	1081		1081
5/7/2020	27.4	37	4.3	31.3	9.98	64.5							0	1,108	0	1108		1108
5/8/2020	26.6	36	4.7	32.7	9.88	63.8							235	860	0	1095		1095
5/9/2020													0	1,104	0	1104		1104
5/10/2020													0	1,092	0	1092		1092
5/11/2020	25.3	35.3	4.8	34.6	9.98	60.8							0	1,089	0	1089		1089
5/12/2020	25.9	36.2	4.5	33.4	9.73	66							0	1,087	0	1088		1088
5/13/2020	26.3	37.1	4.3	32.3	10.15	64.2							0	1,080	0	1081		1081
5/14/2020	29.5	38	3.3	29.2	9.92	75.8							0	1,110	0	1110		1110
5/15/2020	27.7	36.4	4	31.9	10.13	76.3							0	1,112	0	1113		1113
5/16/2020													0	1,112	0	1112		1112
5/17/2020													0	1,102	0	1102		1102
5/18/2020	27.1	36.4	4.1	32.4	10.49	73.7							0	1,082	0	1082		1082
5/19/2020	27	36.2	4.1	32.7	10.15	70.6							0	1,066	0	1066		1066
5/20/2020	27.4	37.8	3.9	30.9	9.77	76							0	1,065	0	1065		1065
5/21/2020	27.1	37.1	4.1	31.7	9.68	71							0	1,071	0	1071		1071
5/22/2020													0	951	17	968		968
5/23/2020													0	1,196	0	1196		1196
5/24/2020													0	1,224	0	1224		1224
5/25/2020													0	1,219	0	1219		1219
5/26/2020	25.7	35.9	5.3	33.1	9.98	88.2							0	1,158	0	1158		1158

Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./V ac.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
5/27/2020	28.2	38.2	3.9	29.7	11.08	83.9						706	380	0	1086		1086	
5/28/2020	26.8	37.3	4.2	31.7	10.44	83.2						1,129	0	0	1129		1129	
5/29/2020	27.6	36.9	4	31.5	7.01	81.2						1,113	0	0	1113		1113	
5/30/2020												1,105	0	0	1105		1105	
5/31/2020												1,116	0	0	1116		1116	
6/1/2020	27.1	37.5	3.8	31.6	12.05	78.6						1,126	0	0	1126		1126	
6/2/2020	27.7	38.7	3.4	30.2	9.22	87.2						1,144	0	0	1144		1144	
6/3/2020	28	37.9	3.3	30.8	8.46	88.7						1,149	0	0	1149		1149	
6/4/2020	28.1	38.5	3.4	30	10.19	85.1						782	326	0	1108		1108	
6/5/2020	28.5	38.3	3.2	30	14.27	91.9						1,133	0	0	1133		1133	
6/6/2020												1,152	0	0	1152		1152	
6/7/2020												1,155	0	0	1155		1155	
6/8/2020	29	39.2	3.3	28.5	4.64	91.1						1,147	0	0	1147		1147	
6/9/2020	29.1	39.8	2.9	28.2	11.12	88.9						1,131	0	0	1131		1131	
6/10/2020	27.5	38.7	3.7	30.1	10.49	88.7						1,099	0	0	1099		1099	
6/11/2020	25.3	34.8	5	34.9	10.82	84.3						1,118	0	0	1118		1118	
6/12/2020	28.2	37.1	3.1	31.6	11.1	90						1,152	0	0	1152		1152	
6/13/2020												1,153	0	0	1153		1153	
6/14/2020												1,136	0	0	1136		1136	
6/15/2020	27.5	38.1	3.4	31	10.82	86.2						1,138	0	0	1138		1138	
6/16/2020	27.3	38.5	3.4	30.8	11.04	85.8						1,139	0	0	1139		1139	
6/17/2020	27.4	37.4	3.3	31.9	10.44	89.7						1,155	0	0	1155		1155	
6/18/2020	28	38.8	3	30.2	10.44	91.5						978	151	0	1129		1129	
6/19/2020	27.9	38.2	3	30.9	10.13	90.8						1,080	68	0	1147		1147	
6/20/2020												1,126	0	0	1126		1126	
6/21/2020												1,125	0	0	1125		1125	
6/22/2020	28.5	38.5	2.8	30.2	10.82	92.9						987	138	0	1126		1126	
6/23/2020	27.5	38.2	3.3	31	11.12	84.8						1,106	0	0	1106		1106	
6/24/2020	27.6	38.2	3.4	30.8	10.78	85.9						1,118	0	0	1118		1118	
6/25/2020	27.2	38.9	3.3	30.6	10.32	87.1						1,145	0	0	1145		1145	
6/26/2020												1,149	0	0	1149		1149	
6/27/2020												1,123	0	0	1123		1123	
6/28/2020												1,134	0	0	1134		1134	
6/29/2020	28.8	37.5	3.5	30.2	10.15	95.3						1,036	91	0	1127		1127	
6/30/2020	26.8	37.7	4	31.5	10.82	86.5						707	376	0	1082		1082	
7/1/2020	27.2	38.1	3.1	31.6	10.8	90.3						1,090	0	0	1090		1090	
7/2/2020	28.4	38	3.1	30.5	10.8	90.6						1,129	0	0	1129		1129	
7/3/2020												1,136	0	0	1136		1136	
7/4/2020												1,147	0	0	1147		1147	
7/5/2020												1,135	0	0	1135		1135	
7/6/2020	27.6	38.8	3.3	30.3	10.91	97.9						1,141	0	0	1141		1141	
7/7/2020	27.9	38.5	3.1	30.5	10.7	97.9						1,045	0	0	1045		1045	
7/8/2020	28	38.8	3	30.2	10.23	96						171	0	974	1146		1146	
7/9/2020	27.7	37.7	3.2	31.4	11.16	95.5						148	0	995	1143		1143	
7/10/2020	27.6	38.6	3.3	30.5	10.19	92.9						96	0	1,037	1133		1133	
7/11/2020												283	0	863	1146		1146	
7/12/2020												251	0	877	1127		1127	
7/13/2020	27.6	38.9	3.4	30.1	10.19	91.5						48	0	1,085	1133		1133	
7/14/2020	27.7	38.8	3.1	30.4	10.49	92.6						52	0	1,086	1138		1138	
7/15/2020	27.1	38.1	3.6	31.2	9.81	93.2						1	0	1,010	1011		1011	

Date	South Quarry						North Quarry						Flare Sta #2 FL-100	Flare Sta #3 FL-120	Flare Sta #1 FL-140	SQ Flare Station Total Utility Flare Flow	NQ Utility Flare Flow (scfm)	Total Flow
	CH4	CO2	O2	Bal.	Press./Vac.	Gas Inlet Temp (°F)	CH4	CO2	O2	Bal.	Press./V ac.	Gas Inlet Temp (°F)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	scfm
7/16/2020	25.8	36.3	4.6	33.3	9.77	85.6						156	0	945	1101		1101	
7/17/2020	26	35.2	4.3	34.5	10.8	93.5						42	0	1,081	1123		1123	
7/18/2020												133	0	993	1126		1126	
7/19/2020												842	0	31	873		873	
7/20/2020	28.7	38.7	3	29.6	10.32	89.8						243	0	888	1131		1131	
7/21/2020	27.4	38.4	3.9	30.3	10.15	90.6						202	0	873	1075		1075	
7/22/2020	27.4	37.7	3.8	31.1	10.74	89.6						1,182	0	0	1182		1182	
7/23/2020	27.6	37.7	3.8	30.9	10.06	94						1,188	0	0	1188		1188	
7/24/2020	27.4	37.2	3.8	31.6	10.27	93.5						145	0	1,048	1192		1192	
7/25/2020												110	0	1,090	1200		1200	
7/26/2020												255	0	944	1199		1199	
7/27/2020	28.1	37.1	3.6	31.2	11.16	96.7						108	0	1,041	1149		1149	
7/28/2020	27.6	37.5	3.7	31.2	10.4	89.3						1,160	0	0	1160		1160	
7/29/2020	28.2	38.6	3.6	29.6	10.47	92.6						58	0	1,110	1167		1167	
7/30/2020	29.2	40.5	3	27.3	10.09	87.9						81	0	1,044	1124		1124	
7/31/2020	28.2	38.7	3.5	29.6	10.13	87.5						1	0	1,068	1068		1068	
8/1/2020												34	0	1,044	1079		1079	
8/2/2020												28	0	1,078	1106		1106	
8/3/2020	28	38.8	3.5	29.7	10.68	85.2						60	0	1,035	1095		1095	
8/4/2020	28	36.7	3.8	31.5	9.96	77.3						8	0	1,088	1096		1096	
8/5/2020	27.3	35.5	4.1	33.1	10.25	77.5						53	0	1,059	1112		1112	
8/6/2020	28	36.6	4.1	31.3	10.3	81						55	0	1,071	1125		1125	
8/7/2020	27.7	36.7	4.2	31.4	10.64	86.3						58	0	1,053	1111		1111	
8/8/2020												62	0	1,024	1086		1086	
8/9/2020												860	0	0	860		860	
8/10/2020	29.8	39.8	3.3	27.1	10.89	93.9						1,076	0	0	1076		1076	
8/11/2020	29	39	3.6	28.4	10.47	86.9						1,069	0	0	1069		1069	
8/12/2020	29.3	39.5	3.5	27.7	10.13	92.8						1,064	0	0	1065		1065	
8/13/2020	29.6	37.9	3.4	29.1	10.47	91.1						1,059	0	0	1059		1059	
8/14/2020	30.1	39.6	3.2	27.1	9.75	90.5						669	409	0	1078		1078	
8/15/2020												1,068	0	0	1068		1068	
8/16/2020												1,067	0	0	1067		1067	
8/17/2020	29.7	37.1	3.3	29.9	10.25	86.7						1,087	0	0	1087		1087	
8/18/2020	29.4	39.3	3.8	27.5	13.85	86.7						1,075	0	0	1075		1075	
8/19/2020	29.1	37.8	3.9	29.2	10.6	83.5						680	400	0	1080		1080	
8/20/2020	29	37.3	3.8	29.9	10	81.3						0	1,089	0	1089		1089	
8/21/2020	30.4	39.5	3.7	26.4	10.13	83.7						0	1,098	0	1098		1098	
8/22/2020												0	1,090	0	1090		1090	
8/23/2020												0	1,086	0	1086		1086	
8/24/2020	29.1	37.6	3.5	29.8	10.13	91.7						0	1,095	0	1095		1095	
8/25/2020	29.8	38.5	3.4	28.3	10.76	93.5						108	968	0	1077		1077	
8/26/2020	29.9	39	3.3	27.8	11.86	92.2						4	1,101	0	1105		1105	
8/27/2020	26.2	34.6	5.7	33.5	10.81	95.4						1	1,127	0	1128		1128	
8/28/2020	27.2	34.5	5.5	32.8	10.22	94						0	1,168	0	1168		1168	
8/29/2020												0	1,136	0	1136		1136	
8/30/2020												0	1,145	0	1145		1145	
8/31/2020	26	34.4	5.9	33.7	10.34	90.8						0	1,128	0	1128		1128	

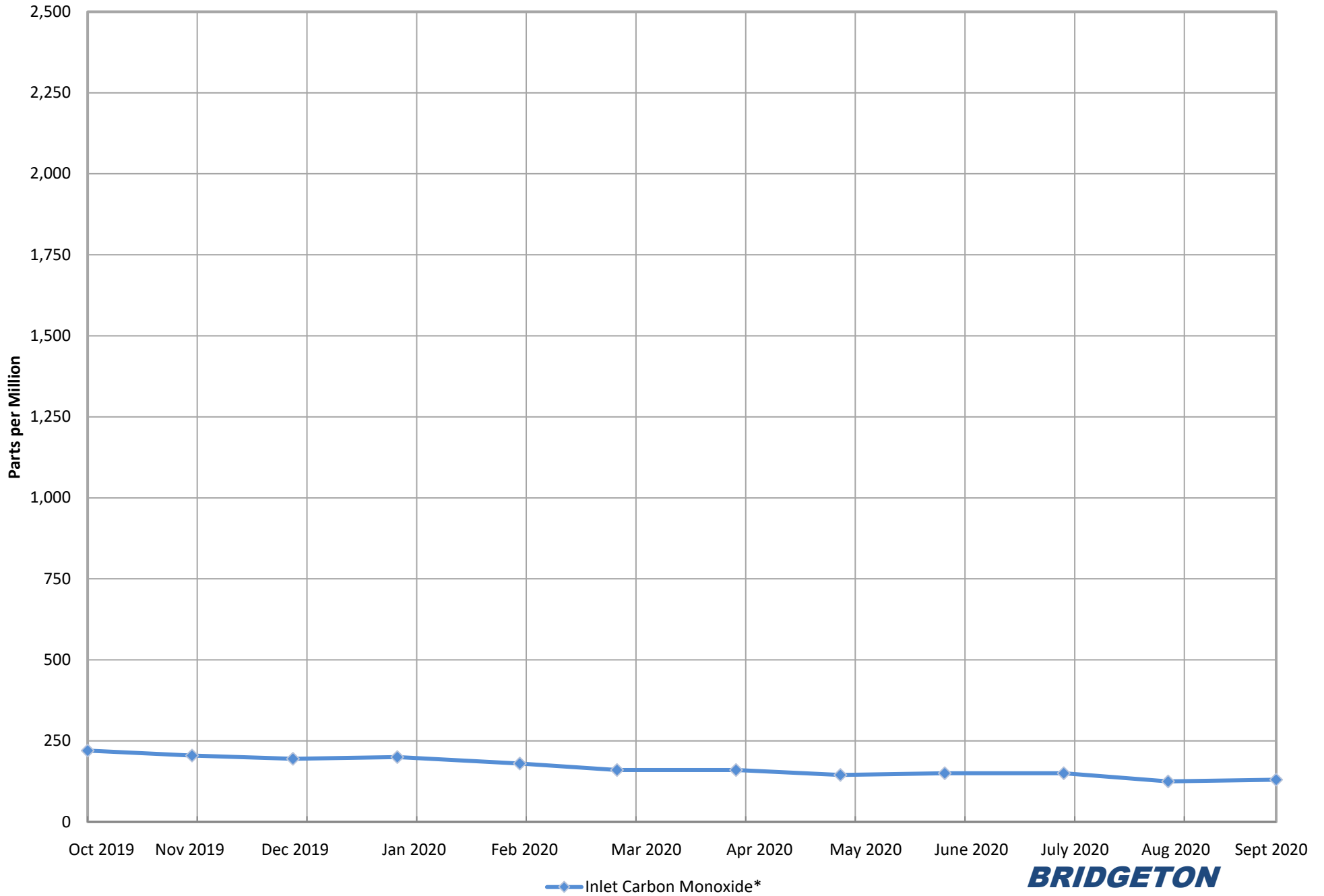
Combined Inlet Gas and Temperature*



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*Gas data collected from Laboratory Reports. Temperature data collected from field readings.

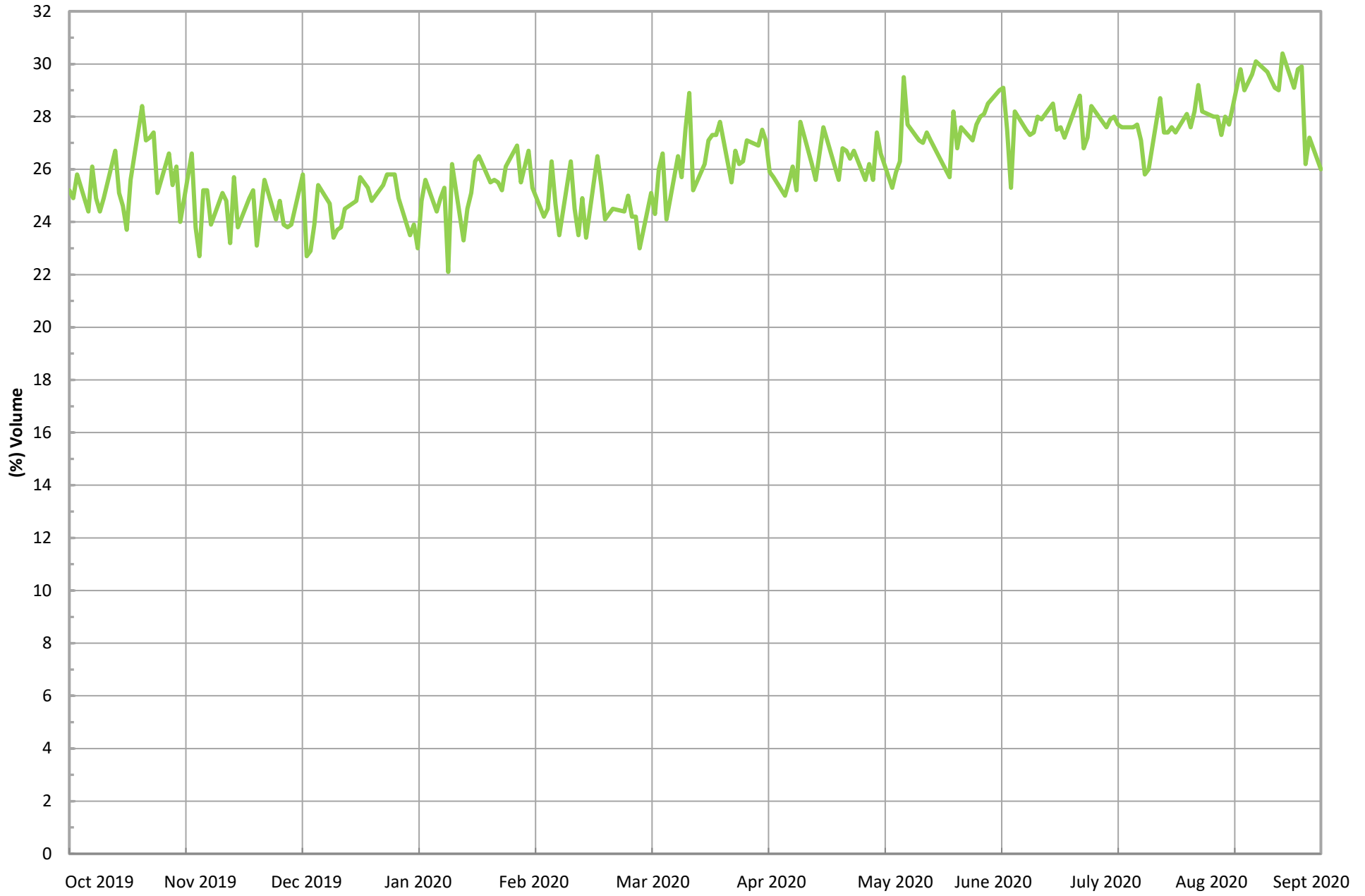
Combined Inlet Carbon Monoxide*



*Data collected from Laboratory Reports.

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Combined Inlet Methane (Field Data)*

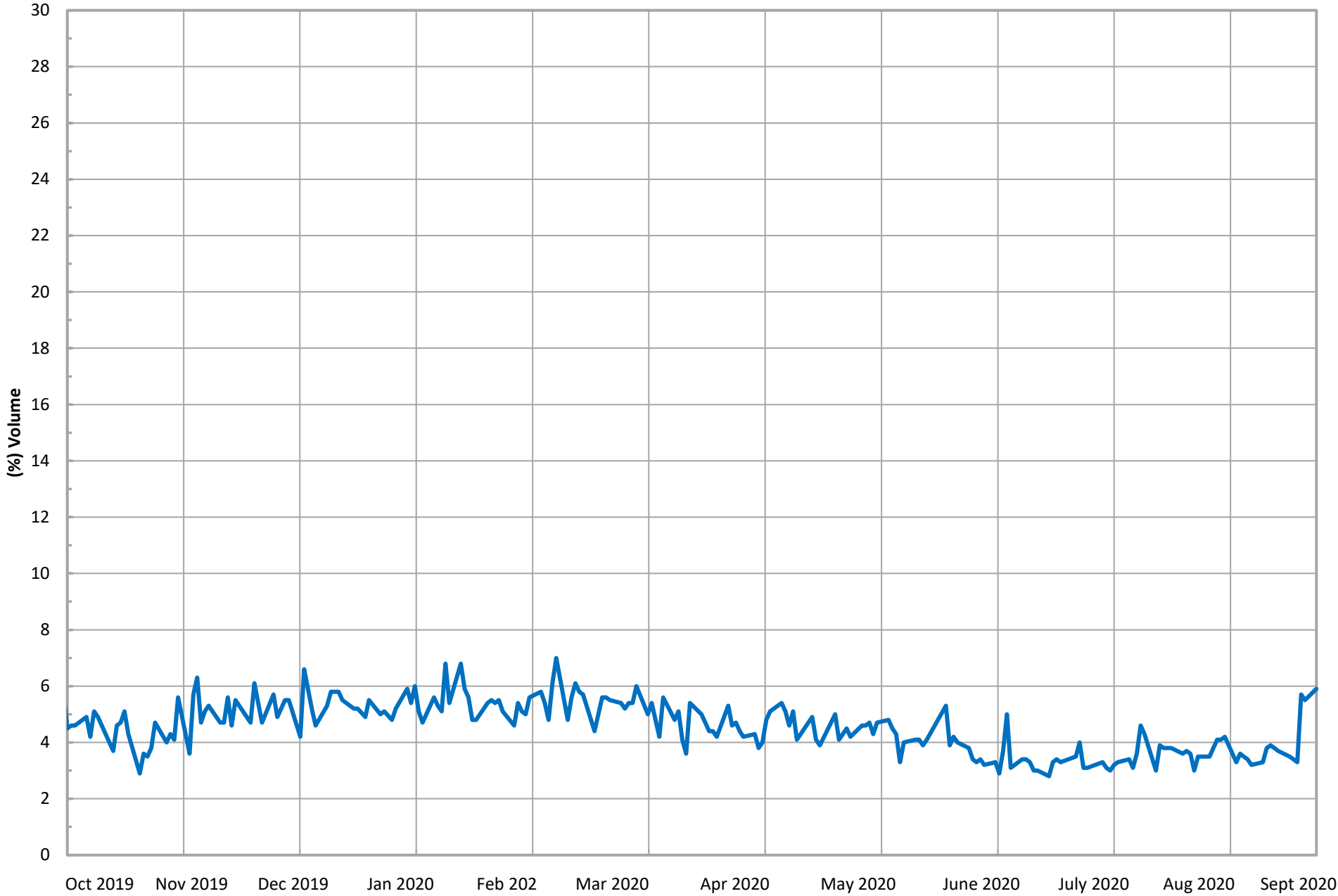


*Gas data collected from field monitoring data.

— Combined Inlet Methane (Field Data)*

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Combined Inlet Oxygen (Field Data)*

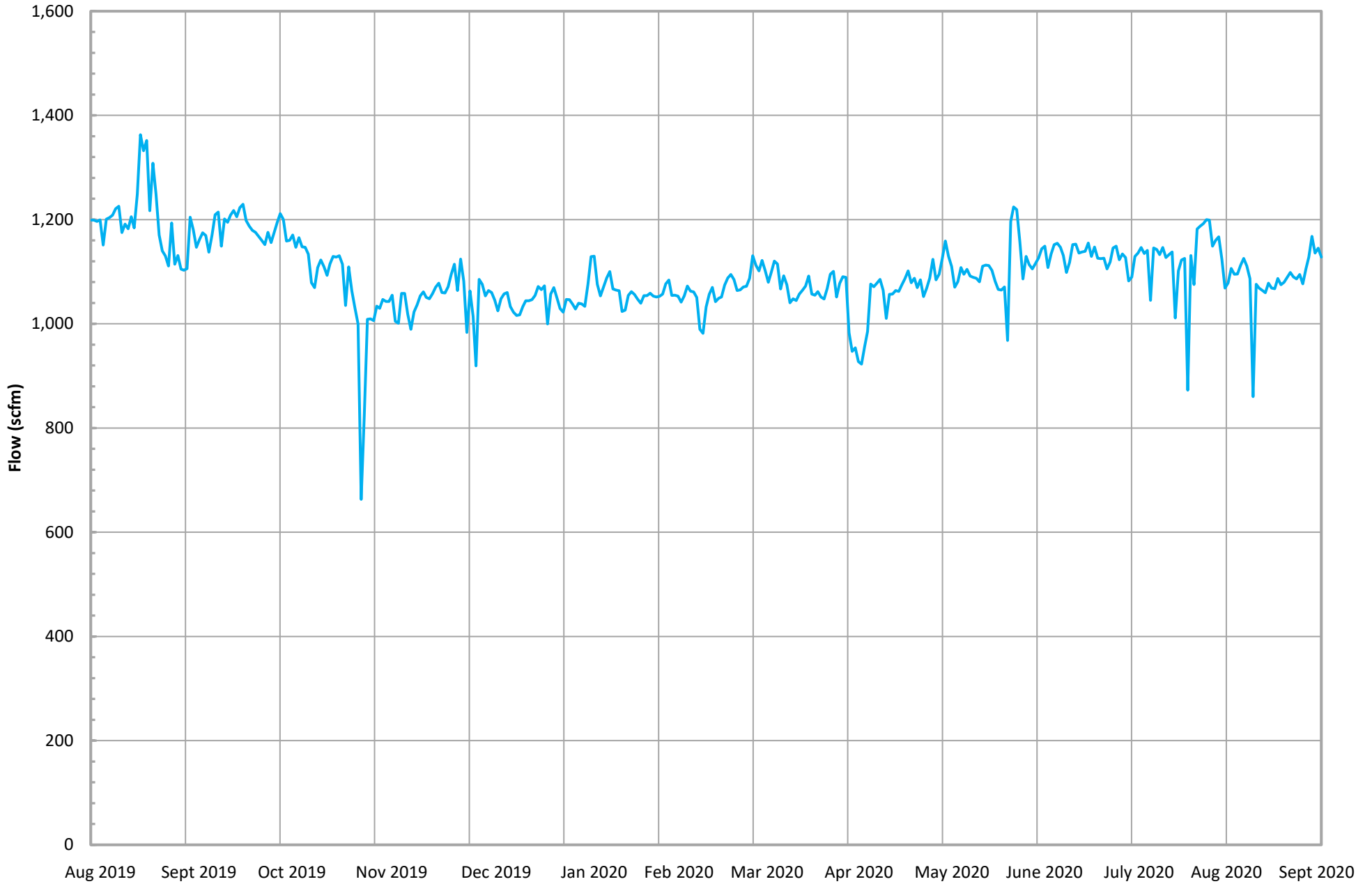


*Gas data collected from field monitoring data

— Combined Inlet Oxygen (Field Data)*

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Total Combined Flow (scfm)*



*Combined flow is based on tabulated flow data collected daily from FL-100, FL-120, FL-140, and the Auxillary Candlestick Flare. On 10/8/19, the Auxillary Candelstick Flare was redirected to the Main Flare.

— Total Combined Flow (scfm)*

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