

Equiti Capital UK Limited – Order
Execution Report Q3 2019
July 2019

General Information

Equiti Capital is a trading name of Equiti Capital UK Limited, authorised and regulated by the Financial Conduct Authority (firm reference no. 528328), with its head office registered address at 69 Wilson Street, London EC2A 2BB, UK (Company Registered No. 07216039).

The Order Execution Report (OER) was published for the period 1st July 2019 to 30 September 2019 ("Q3 2019"). These reports have been prepared to meet Equiti's obligations to publish quarterly data relating to the quality and likelihood of execution.

Details behind the formulation of the OER can be found in our Order Execution Policy ("OEP") a copy of which can be viewed by navigating to the 'legal documentation' section on the Equiti website.

Equiti's has published these reports in tables displaying statistics for each trading DAY and includes an average for the quarter in question for each of our top 10 instruments ("top 10" by volume). Outside of the top 10, the remaining instruments are grouped by "Other FX" and "Other non-FX" (with the exception of the analysis of "Price").

Equiti utilises a number of processes to analyse the quality of its execution arrangements and reserves the right to update and republish the reports on completion of any supplementary work to improve the accuracy of the information in the reports.

We have produced a table for each of the following:

a. Price

Average raw spread (by "raw" we mean the spreads our LPs/brokers provide us). We'll display this for the top 10 instruments. For the instruments outside the top 10 we will not show data as when grouping the numbers will not provide clear information.

b. Speed

This displays the average execution time. This will be displayed as the time between the client requesting the order and the time their order is filled or rejected. This will be measured in milliseconds. E.g. "GBPUSD 45" means on that day we took 45 milliseconds to execute or reject orders that clients submitted.

c. Likelihood of execution

This will display the rejection rates. This will show the number of orders rejected as a percentage of the total number of orders submitted by our clients. E.g. "USDJPY 4.00%" means on that day from every 100 orders submitted 96 were executed and 4 were rejected.

d. Slippage

This displays the data showing the slippage or improvement. The number will display the amount of slippage as a "per million" figure (the currency is irrelevant since \$1 per \$1M is the same as £1 per £1M). E.g. "EURJPY -3.60" means that for every USD 1million our clients traded our price reflected a fill which was worse for the client and cost them USD 3.60. A slippage figure displayed as a positive value indicates that clients benefited from a price improvement. E.g. "AUDUSD +4.2" means that for every USD 1 million our clients traded our price reflected a fill which was better for the client and benefited the clients by USD 4.20.

The 4 tables can be seen below.

a. Price

The average shown is mean average of each 1min data in the quarter. The values are shown in pips for the currency pairs and for XAUUSD it's shown in cents.

	EURGBP	EURJPY	EURNOK	EURUSD	GBPJPY	GBPUSD	USDCAD	USDJPY	USDNOK	XAUUSD
01-Jul	0.358	0.280	0.186	0.144	0.494	0.443	0.464	0.163	0.183	0.911
02-Jul	0.374	0.351	0.155	0.158	0.505	0.416	0.516	0.195	0.149	0.978
03-Jul	0.512	0.384	0.145	0.160	0.860	0.794	0.541	0.228	0.151	1.054
04-Jul	0.654	0.437	0.231	0.235	1.037	0.864	0.895	0.243	0.226	0.955
05-Jul	0.336	0.281	0.157	0.132	0.422	0.400	0.417	0.151	0.154	0.990
07-Jul	1.154	1.139	0.438	0.418	1.937	1.001	2.471	0.610	0.526	1.357
08-Jul	0.360	0.297	0.184	0.131	0.508	0.412	0.459	0.142	0.175	0.971
09-Jul	0.415	0.326	0.175	0.131	0.685	0.599	0.541	0.186	0.183	0.903
10-Jul	0.450	0.322	0.155	0.180	0.751	0.625	0.430	0.179	0.164	0.928
11-Jul	0.413	0.319	0.131	0.161	0.752	0.505	0.463	0.149	0.133	0.994
12-Jul	0.303	0.277	0.121	0.122	0.647	0.376	0.328	0.136	0.119	0.948
14-Jul	1.968	2.868	0.508	1.295	6.338	5.045	2.684	1.911	0.497	1.250
15-Jul	0.388	0.374	0.171	0.172	0.590	0.443	0.431	0.211	0.147	0.914
16-Jul	0.452	0.355	0.168	0.161	0.725	0.562	0.415	0.193	0.140	0.896
17-Jul	0.414	0.298	0.165	0.147	0.672	0.562	0.367	0.161	0.142	0.936
18-Jul	0.420	0.301	0.193	0.117	0.661	0.482	0.332	0.153	0.158	0.925
19-Jul	0.316	0.259	0.137	0.104	0.473	0.341	0.281	0.132	0.124	0.949

21-Jul	1.965	1.743	0.943	0.357	4.925	3.010	1.481	1.446	0.614	1.143
22-Jul	0.418	0.315	0.176	0.121	0.644	0.476	0.319	0.162	0.152	0.902
23-Jul	0.445	0.319	0.147	0.124	0.780	0.582	0.409	0.159	0.134	0.933
24-Jul	0.331	0.293	0.187	0.125	0.645	0.355	0.349	0.145	0.167	0.902
25-Jul	0.401	0.307	0.157	0.129	0.880	0.492	0.468	0.163	0.145	0.793
26-Jul	0.293	0.240	0.162	0.108	0.641	0.305	0.321	0.133	0.146	0.890
28-Jul	1.074	1.383	0.687	0.379	3.524	0.864	2.158	1.107	0.632	1.067
29-Jul	0.384	0.299	0.193	0.134	0.656	0.380	0.476	0.158	0.172	0.881
30-Jul	0.483	0.375	0.175	0.149	0.900	0.460	0.440	0.209	0.160	0.832
31-Jul	0.521	0.339	0.233	0.162	1.022	0.513	0.614	0.212	0.184	0.942
Aug										
01-Aug	0.580	0.332	0.242	0.205	1.262	0.638	0.464	0.237	0.192	0.950
02-Aug	0.431	0.267	0.166	0.144	0.718	0.455	0.366	0.183	0.150	0.938
04-Aug	2.241	2.559	1.734	0.723	7.234	4.346	1.695	1.274	0.867	0.952
05-Aug	0.558	0.353	0.252	0.193	0.962	0.615	0.601	0.230	0.222	1.012
06-Aug	0.578	0.358	0.198	0.184	1.026	0.668	0.589	0.246	0.185	1.044
07-Aug	0.556	0.393	0.285	0.211	1.066	0.641	0.537	0.255	0.216	1.078
08-Aug	0.553	0.422	0.283	0.215	1.437	0.730	0.537	0.295	0.231	1.109
09-Aug	0.451	0.352	0.195	0.152	1.002	0.484	0.446	0.209	0.169	1.051
11-Aug	2.497	2.031	1.466	0.914	6.566	3.480	2.355	1.421	1.148	1.482
12-Aug	0.518	0.422	0.253	0.176	0.989	0.525	0.689	0.253	0.202	1.041
13-Aug	0.528	0.360	0.253	0.169	0.870	0.493	0.512	0.203	0.194	1.140
14-Aug	0.493	0.358	0.264	0.199	0.867	0.501	0.491	0.206	0.211	1.165
15-Aug	0.517	0.471	0.233	0.212	1.006	0.488	0.582	0.283	0.217	1.188
16-Aug	0.433	0.315	0.185	0.150	0.706	0.393	0.407	0.161	0.163	1.108
18-Aug	2.307	2.918	1.064	0.849	6.464	2.797	2.676	1.077	1.185	1.138
19-Aug	0.476	0.349	0.201	0.174	0.855	0.467	0.420	0.184	0.182	1.020
20-Aug	0.568	0.388	0.264	0.206	0.897	0.528	0.484	0.203	0.217	0.985
21-Aug	0.531	0.319	0.240	0.170	0.980	0.617	0.426	0.198	0.221	0.943
22-Aug	0.572	0.365	0.254	0.222	1.234	0.650	0.476	0.222	0.239	0.945
23-Aug	0.477	0.322	0.208	0.174	1.071	0.515	0.434	0.205	0.202	1.048
25-Aug	2.351	1.235	0.774	0.713	3.971	2.176	2.269	0.949	0.682	2.265
26-Aug	0.637	0.514	0.331	0.276	1.233	0.846	0.582	0.452	0.283	1.043
27-Aug	0.553	0.411	0.213	0.211	0.963	0.682	0.500	0.340	0.213	0.974
28-Aug	0.669	0.411	0.196	0.253	1.102	0.855	0.462	0.273	0.228	1.033
29-Aug	0.663	0.474	0.246	0.239	1.065	0.795	0.681	0.379	0.268	0.976
30-Aug	0.469	0.337	0.198	0.201	0.762	0.577	0.449	0.261	0.206	1.059
Sep										
01-Sep	2.077	1.416	1.197	0.720	4.981	3.160	1.385	1.116	1.234	1.429
02-Sep	1.015	0.618	0.250	0.372	1.957	1.352	0.673	0.436	0.283	1.016
03-Sep	0.665	0.390	0.211	0.259	1.167	0.927	0.535	0.280	0.230	1.076
04-Sep	0.677	0.425	0.201	0.266	1.171	0.804	0.510	0.338	0.212	1.060

05-Sep	0.689	0.390	0.202	0.209	1.304	0.887	0.457	0.322	0.234	1.081
06-Sep	0.508	0.306	0.166	0.200	0.819	0.618	0.409	0.258	0.176	1.123
08-Sep	1.803	1.340	1.458	0.793	4.127	2.377	3.319	1.314	1.177	1.299
09-Sep	0.709	0.413	0.206	0.271	1.252	0.875	0.466	0.280	0.243	1.048
10-Sep	0.607	0.360	0.217	0.219	1.187	0.828	0.450	0.306	0.245	1.039
11-Sep	0.671	0.340	0.220	0.205	1.378	0.961	0.445	0.284	0.247	1.062
12-Sep	0.681	0.486	0.237	0.270	1.787	0.918	0.541	0.363	0.271	1.100
13-Sep	0.483	0.323	0.179	0.208	1.103	0.589	0.438	0.266	0.190	1.066
15-Sep	1.492	1.387	0.320	0.474	3.914	1.965	1.206	0.747	0.337	1.719
16-Sep	0.564	0.439	0.183	0.303	1.100	0.735	0.604	0.304	0.210	1.164
17-Sep	0.554	0.387	0.281	0.234	1.114	0.703	0.555	0.323	0.258	1.080
18-Sep	0.618	0.379	0.204	0.262	1.207	0.778	0.603	0.299	0.233	1.110
19-Sep	0.595	0.513	0.211	0.269	1.479	0.768	0.634	0.319	0.230	1.059
20-Sep	0.437	0.307	0.182	0.204	1.104	0.545	0.430	0.235	0.191	1.035
22-Sep	1.833	1.717	0.508	1.012	4.250	2.026	0.926	0.632	0.693	1.981
23-Sep	0.616	0.366	0.190	0.219	1.245	0.829	0.501	0.299	0.200	1.028
24-Sep	0.617	0.453	0.162	0.262	1.196	0.838	0.459	0.266	0.194	1.095
25-Sep	0.635	0.445	0.179	0.223	1.182	0.763	0.421	0.289	0.205	1.070
26-Sep	0.610	0.404	0.198	0.187	1.182	0.853	0.495	0.245	0.227	1.039
27-Sep	0.417	0.285	0.173	0.152	0.833	0.551	0.393	0.179	0.191	0.911
29-Sep	1.766	1.008	0.662	0.427	5.766	3.510	2.136	0.677	0.656	0.917
30-Sep	0.605	0.388	0.212	0.178	1.172	0.791	0.484	0.244	0.227	0.692

b. Speed

The average shown is the mean average figure across all executed trades in the quarter.

	EURGBP	EURJPY	EURNOK	EURUSD	GBPJPY	GBPUSD	USDCAD	USDJPY	USDNOK	XAUUSD	All Other FX	All Other Non-FX
01-Jul	5	21	58	15	3	5	3	17	45	9	30.64	61.89
02-Jul	5	26	0	23	1	4	3	14	12	3	36.31	84.13
03-Jul	8	38	11	18	1	6	3	17	53	4	39.93	77.66
04-Jul	5	20	23	25	2	15	31	15	5	4	32.58	179.26
05-Jul	9	37	41	13	1	6	5	9	22	4	50.87	31.14
08-Jul	11	22	0	10	2	5	6	17	34	2	44.20	45.72
09-Jul	13	26	36	14	3	5	9	10	31	3	39.41	27.34
10-Jul	8	27	21	14	6	8	11	14	33	3	39.46	32.99
11-Jul	7	33	0	20	4	4	5	20	18	4	24.65	33.91
12-Jul	5	25	35	23	2	4	5	24	14	4	22.07	46.85
15-Jul	4	23	33	15	8	4	4	18	11	4	28.32	41.04
16-Jul	7	23	20	28	2	7	8	23	18	5	27.03	30.49
17-Jul	5	33	18	11	2	5	7	19	5	5	17.67	28.16
18-Jul	5	28	0	16	2	6	9	19	20	4	23.11	36.26
19-Jul	3	31	62	21	3	4	11	25	12	4	28.83	162.46
22-Jul	16	20	38	11	15	13	20	17	0	3	23.52	30.94
23-Jul	23	19	0	14	19	13	27	20	21	3	22.96	152.57
24-Jul	19	18	3	32	34	18	31	22	19	5	33.17	47.31
25-Jul	36	27	22	17	29	17	187	18	22	4	31.22	39.01
26-Jul	6	7	0	7	1	8	6	8	14	3	36.13	43.44
29-Jul	8	5	28	8	2	8	15	10	0	2	24.52	33.66
30-Jul	9	13	20	10	2	7	12	14	31	3	35.99	39.45
31-Jul	8	13	23	16	4	5	15	9	33	4	30.44	40.57
01-Aug	14	5	25	11	3	6	12	11	32	3	23.25	113.43
02-Aug	12	6	0	10	1	7	11	18	28	4	83.48	33.23
05-Aug	15	4	21	9	2	3	19	6	26	46	26.59	64.10
06-Aug	15	8	8	9	2	3	6	7	20	5	30.59	47.69
07-Aug	5	4	22	9	1	5	7	8	23	2	28.72	46.94
08-Aug	3	3	5	10	2	4	10	10	24	2	31.78	41.66
09-Aug	9	3	21	5	4	13	11	9	12	43	30.75	32.38
12-Aug	12	7	29	9	4	6	6	5	28	5	29.02	30.10

13-Aug	3	6	10	7	4	7	17	11	51	27	35.16	36.80
14-Aug	5	10	31	8	1	4	13	10	2	3	24.98	48.43
15-Aug	6	10	2	8	4	6	6	9	1	7	32.95	40.10
16-Aug	5	5	14	8	4	7	9	4	7	8	22.95	49.41
19-Aug	7	5	10	7	3	4	23	11	0	6	33.14	29.67
20-Aug	7	12	17	7	4	8	27	12	0	4	29.27	33.72
21-Aug	1	7	42	7	7	7	18	10	36	6	28.53	41.53
22-Aug	4	14	22	8	7	7	47	10	0	7	30.37	27.49
23-Aug	3	9	46	11	5	5	31	12	20	5	28.53	42.37
26-Aug	4	11	36	7	3	5	25	10	24	3	30.53	223.79
27-Aug	3	8	28	6	4	5	45	9	25	4	30.04	30.65
28-Aug	8	9	41	7	3	5	12	10	21	3	33.50	49.15
29-Aug	4	16	36	15	6	2	20	16	15	7	34.99	44.04
30-Aug	3	10	34	10	2	4	17	13	17	6	37.00	37.33
02-Sep	3	6	46	8	2	3	8	7	0	3	31.62	42.55
03-Sep	8	7	0	23	3	4	27	43	33	4	35.07	30.45
04-Sep	4	7	36	8	2	3	12	11	55	3	39.78	33.03
05-Sep	4	7	54	23	3	5	41	9	6	5	38.20	38.99
06-Sep	5	6	0	8	1	4	30	8	19	4	38.05	34.11
09-Sep	7	7	78	7	1	5	12	6	93	2	45.24	28.12
10-Sep	12	7	44	9	2	4	16	7	17	2	38.27	80.50
11-Sep	11	8	55	9	1	3	23	6	0	2	28.54	35.04
12-Sep	10	8	33	12	4	4	26	9	6	1	29.24	35.66
13-Sep	11	9	34	11	2	5	15	5	7	1	32.93	33.55
16-Sep	9	8	21	9	1	4	52	8	18	1	28.15	53.20
17-Sep	8	7	54	10	1	4	25	5	10	1	31.67	31.20
18-Sep	6	6	39	12	1	5	12	4	23	2	20.58	33.49
19-Sep	3	7	35	11	4	4	16	7	47	2	33.78	27.07
20-Sep	5	7	15	9	3	4	15	9	18	1	31.47	211.13
23-Sep	2	6	43	17	2	3	32	5	8	2	34.68	151.40
24-Sep	1	4	34	9	1	3	26	10	31	3	30.67	35.58
25-Sep	4	7	30	11	2	5	30	9	15	4	28.64	79.85
26-Sep	2	3	51	15	1	4	35	7	20	1	32.02	38.33
27-Sep	7	2	0	17	1	6	58	8	37	2	29.33	33.70
30-Sep	3	4	73	12	3	5	32	7	54	2	36.38	51.63

c. Likelihood of Execution

The average shown is the mean average figure across all executed trades in the quarter.

	EURGBP	EURJPY	EURNOK	EURUSD	GBPJPY	GBPUSD	USDCAD	USDJPY	USDNOK	XAUUSD	All Other FX	All Other Non-FX
01-Jul	0.00%	2.37%	0.00%	1.43%	0.00%	1.41%	6.60%	1.93%	0.00%	1.14%	0.63%	0.05%
02-Jul	0.00%	3.32%	0.00%	2.17%	0.00%	3.29%	0.02%	2.48%	0.00%	1.88%	0.24%	0.24%
03-Jul	0.02%	0.00%	0.00%	51.54%	0.00%	3.01%	1.21%	2.61%	0.00%	3.63%	0.00%	0.71%
04-Jul	1.67%	0.00%	0.00%	0.05%	0.81%	8.77%	17.84%	0.00%	0.00%	0.31%	0.00%	0.15%
05-Jul	0.01%	0.13%	0.00%	1.37%	7.07%	3.21%	2.55%	0.40%	0.00%	2.01%	0.17%	0.30%
06-Jul	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
07-Jul	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
08-Jul	0.00%	0.00%	0.00%	0.27%	0.00%	1.49%	1.16%	1.26%	0.00%	0.15%	0.40%	0.62%
09-Jul	0.00%	0.00%	0.00%	44.75%	0.00%	1.87%	3.16%	1.41%	0.00%	0.04%	0.00%	0.25%
10-Jul	2.00%	1.45%	0.00%	1.14%	0.23%	8.96%	10.98%	0.61%	94.18%	0.30%	0.00%	0.82%
11-Jul	0.01%	0.00%	0.00%	1.86%	0.07%	1.38%	7.81%	2.74%	0.00%	0.62%	0.05%	0.37%
12-Jul	1.00%	0.00%	0.00%	0.63%	0.00%	0.93%	1.55%	7.66%	0.00%	0.03%	0.00%	0.65%
13-Jul	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
14-Jul	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
15-Jul	0.76%	1.60%	0.00%	0.48%	2.09%	0.90%	3.17%	2.49%	0.00%	0.15%	0.16%	1.60%
16-Jul	4.63%	0.72%	0.00%	2.42%	0.71%	9.54%	2.29%	8.49%	7.14%	0.52%	0.00%	1.90%
17-Jul	1.18%	0.00%	0.00%	0.89%	4.01%	3.62%	1.63%	1.30%	0.00%	0.41%	0.00%	1.18%
18-Jul	3.11%	3.67%	0.00%	3.45%	1.17%	6.11%	2.89%	3.16%	0.00%	0.81%	0.31%	0.98%
19-Jul	0.92%	3.66%	0.00%	4.84%	9.23%	2.31%	5.21%	9.14%	0.00%	0.77%	1.66%	2.72%
20-Jul	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
21-Jul	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
22-Jul	0.00%	2.58%	0.00%	0.64%	1.12%	1.09%	2.29%	0.00%	0.00%	0.02%	0.00%	0.12%
23-Jul	0.02%	0.00%	0.00%	0.78%	0.02%	3.41%	4.24%	0.50%	6.94%	0.14%	0.52%	1.83%
24-Jul	2.53%	2.75%	0.00%	14.00%	20.15%	3.76%	4.41%	0.74%	0.00%	0.30%	0.02%	1.47%
25-Jul	0.91%	0.68%	1.85%	4.70%	0.52%	3.92%	0.01%	0.40%	0.00%	0.14%	0.03%	1.27%
26-Jul	0.01%	0.00%	0.00%	2.37%	0.00%	11.87%	0.00%	0.45%	0.00%	0.08%	0.00%	0.13%
27-Jul	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
28-Jul	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
29-Jul	3.81%	0.02%	0.00%	0.10%	0.73%	17.06%	0.63%	1.30%	0.00%	0.48%	0.00%	1.28%
30-Jul	0.88%	0.27%	0.00%	0.55%	1.20%	17.47%	0.86%	1.54%	0.00%	0.14%	1.56%	0.77%
31-Jul	0.28%	0.45%	0.00%	3.69%	3.48%	1.31%	6.01%	0.31%	14.53%	1.13%	0.52%	2.88%

01-Aug	7.33%	0.41%	0.00%	0.59%	1.00%	2.79%	3.17%	6.53%	9.20%	5.98%	0.00%	0.34%
02-Aug	1.47%	7.85%	0.00%	8.91%	0.01%	6.97%	2.96%	11.80%	3.18%	0.32%	0.78%	0.59%
03-Aug	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
04-Aug	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
05-Aug	2.22%	1.12%	0.00%	1.64%	1.73%	4.32%	3.38%	6.16%	22.65%	95.38%	0.10%	1.01%
06-Aug	0.89%	7.58%	0.00%	1.68%	3.27%	0.72%	1.14%	12.41%	0.65%	44.27%	0.88%	2.37%
07-Aug	0.01%	7.45%	0.00%	6.12%	0.06%	1.32%	9.91%	11.08%	0.00%	0.38%	0.24%	1.40%
08-Aug	0.26%	3.14%	0.00%	5.23%	0.29%	4.36%	12.93%	6.56%	0.00%	0.20%	0.40%	1.39%
09-Aug	6.58%	0.54%	5.56%	2.35%	10.34%	9.70%	8.77%	16.97%	0.00%	44.76%	1.20%	1.40%
10-Aug	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
11-Aug	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
12-Aug	3.64%	7.42%	0.00%	2.30%	11.77%	17.18%	9.07%	1.31%	0.00%	11.95%	0.00%	0.96%
13-Aug	8.39%	0.07%	0.00%	47.14%	3.47%	12.13%	9.31%	15.03%	0.00%	87.68%	0.65%	1.20%
14-Aug	0.16%	2.71%	0.00%	1.99%	1.48%	3.07%	5.44%	7.81%	99.12%	2.18%	0.17%	2.46%
15-Aug	0.02%	25.59%	99.89%	15.10%	7.87%	10.37%	7.32%	21.27%	99.76%	14.30%	1.78%	1.31%
16-Aug	0.44%	4.40%	0.00%	4.81%	6.18%	13.68%	0.15%	12.80%	0.00%	9.53%	0.78%	3.00%
17-Aug	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
18-Aug	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
19-Aug	4.34%	3.29%	0.00%	2.43%	2.50%	0.64%	1.48%	0.42%	0.00%	4.80%	0.22%	1.72%
20-Aug	5.83%	1.61%	0.00%	2.59%	5.02%	10.46%	4.29%	0.11%	0.00%	0.75%	0.06%	1.33%
21-Aug	0.00%	0.05%	0.00%	6.86%	10.08%	8.12%	15.43%	1.98%	3.64%	0.29%	1.40%	0.83%
22-Aug	0.08%	2.02%	0.00%	2.53%	3.11%	6.10%	3.23%	4.34%	0.00%	0.83%	0.00%	1.05%
23-Aug	0.36%	6.32%	0.00%	7.87%	0.91%	2.18%	11.30%	7.62%	0.00%	8.01%	0.21%	0.38%
24-Aug	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
25-Aug	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
26-Aug	0.00%	9.31%	0.00%	0.78%	4.65%	4.73%	3.12%	11.51%	0.00%	1.90%	0.00%	1.53%
27-Aug	0.00%	0.63%	0.00%	0.66%	11.06%	3.70%	13.85%	5.84%	0.00%	6.68%	0.00%	0.26%
28-Aug	0.00%	0.00%	0.00%	2.26%	0.00%	0.00%	24.11%	0.00%	0.00%	0.00%	0.00%	0.34%
29-Aug	0.04%	0.75%	8.04%	5.63%	0.21%	1.71%	17.97%	1.07%	92.23%	0.82%	0.00%	0.15%
30-Aug	0.03%	1.35%	0.00%	5.13%	0.39%	0.92%	3.91%	2.35%	0.00%	1.07%	0.47%	0.70%
31-Aug	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
01-Sep	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
02-Sep	0.23%	2.76%	0.00%	1.05%	0.01%	4.51%	0.78%	6.86%	0.00%	0.65%	0.10%	0.46%
03-Sep	1.53%	2.38%	0.00%	26.41%	8.23%	9.34%	3.88%	21.61%	29.20%	6.69%	0.81%	0.38%
04-Sep	0.04%	0.48%	0.24%	1.16%	1.84%	2.65%	8.55%	12.81%	6.87%	1.67%	0.12%	0.03%
05-Sep	0.33%	0.12%	0.00%	1.95%	7.01%	13.23%	2.11%	6.32%	0.00%	2.43%	1.35%	0.16%
06-Sep	0.00%	6.51%	0.00%	0.64%	1.60%	8.17%	5.04%	3.13%	0.00%	1.34%	0.03%	0.67%
07-Sep	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
08-Sep	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
09-Sep	0.04%	0.04%	91.27%	0.13%	0.63%	1.24%	0.00%	0.12%	85.23%	1.40%	0.40%	0.45%

10-Sep	0.06%	0.80%	5.56%	0.55%	0.63%	0.35%	0.04%	4.03%	2.22%	0.19%	0.05%	1.73%
11-Sep	0.00%	4.03%	12.50%	3.62%	0.29%	1.75%	1.02%	2.54%	0.00%	0.60%	0.15%	1.17%
12-Sep	0.07%	2.90%	0.00%	3.91%	0.53%	2.66%	3.02%	5.07%	0.00%	1.27%	0.08%	0.10%
13-Sep	0.00%	1.10%	0.00%	0.20%	0.11%	2.29%	0.35%	1.69%	0.00%	0.90%	0.24%	0.69%
14-Sep	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
15-Sep	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
16-Sep	0.01%	2.09%	0.00%	0.36%	0.01%	1.64%	1.74%	0.31%	0.00%	0.45%	0.00%	1.79%
17-Sep	0.00%	0.19%	0.00%	2.29%	0.58%	1.69%	2.95%	3.13%	0.00%	0.81%	0.00%	0.10%
18-Sep	0.34%	0.11%	0.00%	0.49%	0.00%	1.08%	3.56%	5.03%	0.00%	0.77%	9.13%	0.74%
19-Sep	0.00%	0.12%	35.64%	0.64%	0.13%	0.64%	0.00%	3.44%	58.18%	0.75%	1.61%	1.04%
20-Sep	0.00%	0.00%	0.00%	0.11%	0.01%	1.24%	0.01%	0.95%	58.18%	0.57%	0.80%	0.67%
21-Sep	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
22-Sep	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
23-Sep	0.00%	1.94%	0.00%	10.01%	0.93%	1.35%	0.22%	5.63%	0.00%	0.17%	0.59%	0.34%
24-Sep	0.00%	0.00%	0.00%	0.31%	0.55%	2.18%	1.12%	2.51%	0.00%	1.83%	2.84%	0.86%
25-Sep	0.74%	0.84%	0.00%	1.14%	1.47%	2.24%	13.27%	3.21%	0.00%	1.88%	0.00%	0.68%
26-Sep	0.00%	0.00%	0.00%	1.60%	0.45%	2.01%	0.16%	0.17%	0.00%	0.04%	0.35%	0.46%
27-Sep	0.10%	0.13%	0.00%	0.38%	0.38%	1.64%	3.78%	3.31%	0.00%	0.36%	0.00%	0.18%
28-Sep	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
29-Sep	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
30-Sep	0.00%	0.17%	1.56%	1.31%	0.04%	2.18%	0.30%	1.45%	28.57%	0.96%	0.53%	0.09%

d. Slippage

The average shown is the mean average figure across all executed trades in the quarter.

	EURGBP	EURJPY	EURNOK	EURUSD	GBPJPY	GBPUSD	USDCAD	USDJPY	USDNOK	XAUUSD	All Other FX	All Other Non-FX
01-Jul	\$0.02	\$0.98	\$0.00	-\$0.57	-\$0.04	-\$0.23	\$0.18	\$0.03	\$0.00	-\$27.33	\$0.00	-\$4.42
02-Jul	\$0.00	-\$0.33	\$0.00	-\$0.45	-\$0.08	\$0.05	\$0.01	-\$0.04	\$0.00	-\$0.22	\$0.00	-\$6.77
03-Jul	\$0.03	-\$4.01	\$0.00	-\$0.30	\$0.03	\$0.02	-\$1.13	-\$2.07	\$0.00	-\$8.89	\$0.11	-\$1.54
04-Jul	\$0.27	\$0.09	\$0.00	-\$1.33	\$0.00	\$0.00	\$0.12	\$0.03	\$0.00	-\$1.98	\$0.15	-\$0.84
05-Jul	\$0.05	-\$0.03	\$0.00	-\$2.59	\$0.00	-\$1.56	\$0.06	-\$1.33	\$0.00	-\$7.72	\$0.01	-\$2.76
08-Jul	\$0.00	-\$0.02	\$0.00	\$0.09	\$0.00	\$0.09	-\$1.49	\$0.00	\$0.00	-\$6.12	\$1.42	-\$3.30
09-Jul	\$0.28	\$1.18	\$0.00	-\$0.07	\$0.04	-\$0.13	\$1.74	\$1.12	\$0.00	-\$0.51	-\$0.12	-\$0.73
10-Jul	\$0.00	-\$0.01	\$0.00	\$0.13	\$0.11	-\$1.55	\$0.19	\$0.15	\$0.00	\$0.60	\$0.00	-\$3.02
11-Jul	-\$0.29	\$0.01	\$0.00	-\$0.82	\$0.00	-\$0.25	\$0.00	-\$0.12	\$0.00	-\$0.31	\$0.03	-\$4.83
12-Jul	\$0.20	\$0.00	\$0.00	-\$0.83	-\$0.00	-\$1.16	\$0.00	\$0.02	\$0.00	-\$0.20	\$0.05	-\$2.04
15-Jul	\$0.46	\$0.18	\$0.00	\$0.57	-\$0.46	-\$0.43	\$0.25	\$0.20	\$0.00	-\$0.03	\$0.12	-\$0.53
16-Jul	\$0.00	\$1.24	\$0.00	-\$1.60	-\$2.79	-\$0.03	\$0.95	-\$0.57	\$0.00	\$0.23	\$0.00	-\$0.79
17-Jul	\$0.13	\$1.33	\$0.00	\$0.11	-\$1.66	-\$0.07	\$0.95	\$0.02	\$0.00	-\$0.84	\$0.42	-\$0.71
18-Jul	-\$0.01	\$0.60	\$0.00	-\$0.13	-\$0.03	-\$0.13	-\$0.10	\$0.42	\$0.00	-\$1.30	\$0.09	-\$18.64
19-Jul	\$0.01	-\$0.21	\$0.00	-\$1.11	\$0.25	-\$0.38	-\$1.20	\$0.43	\$0.00	-\$4.70	\$1.80	-\$5.35
22-Jul	-\$0.03	\$2.75	\$0.00	\$0.35	\$0.11	-\$0.91	-\$1.33	\$0.37	\$0.00	-\$1.09	-\$0.27	-\$5.65
23-Jul	-\$0.03	-\$0.01	\$0.00	\$0.05	\$0.01	-\$0.03	-\$1.22	-\$1.79	-\$1.76	-\$0.01	\$0.26	-\$2.21
24-Jul	-\$0.12	-\$0.49	\$0.00	-\$21.83	-\$0.13	-\$0.33	-\$3.89	-\$1.06	\$0.00	-\$0.67	-\$0.08	-\$1.60
25-Jul	\$0.17	\$1.93	\$0.00	-\$1.50	-\$0.13	-\$0.80	-\$0.23	-\$1.56	\$0.00	-\$0.23	-\$1.07	-\$16.68
26-Jul	-\$0.00	-\$6.99	\$0.00	-\$0.23	-\$0.02	\$0.13	-\$11.19	-\$4.94	\$0.00	-\$0.08	-\$0.85	\$0.88
29-Jul	\$0.01	-\$6.44	\$0.00	-\$1.60	\$0.01	-\$0.89	-\$3.24	-\$1.88	\$0.00	-\$1.91	\$0.06	-\$1.17
30-Jul	-\$0.50	-\$2.99	\$0.00	-\$0.17	-\$0.49	-\$0.94	-\$1.22	-\$2.00	\$0.00	-\$0.88	\$0.00	-\$1.18
31-Jul	-\$3.06	-\$2.62	\$0.00	-\$2.28	\$0.28	-\$1.57	\$0.09	-\$0.75	\$1.23	-\$5.61	\$0.31	\$0.21
01-Aug	-\$0.59	-\$8.44	\$0.00	-\$5.71	-\$0.13	-\$3.51	\$0.00	\$0.61	\$0.16	-\$2.89	-\$0.83	-\$7.65
02-Aug	-\$0.01	\$1.72	\$0.00	-\$1.12	-\$0.03	-\$0.08	-\$1.87	\$8.22	\$3.52	-\$15.22	-\$0.56	-\$1.20
05-Aug	\$0.00	\$0.18	\$0.00	-\$0.65	-\$0.03	-\$1.64	\$0.01	-\$1.08	\$0.00	-\$0.29	\$0.00	-\$1.06
06-Aug	\$0.00	-\$0.02	\$0.00	-\$1.93	\$0.02	\$0.00	-\$0.07	\$0.03	\$0.00	-\$8.98	\$0.05	-\$3.12
07-Aug	\$0.00	\$0.00	\$0.00	\$0.09	\$0.00	-\$0.07	\$0.15	\$0.01	\$0.00	-\$0.47	\$0.08	\$2.30
08-Aug	\$0.00	-\$0.00	\$0.00	\$0.39	\$0.05	\$0.00	\$0.01	\$0.00	\$0.00	-\$0.88	\$0.19	-\$91.64
09-Aug	\$0.00	-\$2.51	\$0.00	\$0.01	-\$0.14	-\$10.49	\$0.43	\$0.03	\$0.00	-\$0.27	\$0.00	-\$0.90
12-Aug	-\$0.01	\$0.03	\$0.00	\$0.62	\$0.19	\$0.12	\$0.22	-\$0.01	\$0.00	-\$8.39	-\$0.02	-\$1.71

13-Aug	\$1.35	\$0.11	\$0.00	\$0.03	\$0.06	-\$0.12	-\$0.08	\$0.23	\$0.00	-\$0.42	\$1.02	\$0.18
14-Aug	-\$0.89	\$0.02	\$0.00	-\$0.05	-\$2.09	-\$0.89	-\$0.00	-\$3.09	\$0.00	-\$3.32	\$1.42	-\$1.90
15-Aug	\$0.00	\$4.30	\$0.00	\$1.62	\$0.05	-\$0.19	\$0.27	\$0.12	\$0.02	-\$0.87	\$0.92	-\$4.60
16-Aug	\$0.00	\$2.01	\$0.00	\$0.44	\$0.00	-\$0.36	\$0.00	\$0.00	\$0.00	-\$3.68	\$0.07	-\$0.38
19-Aug	\$0.00	\$0.00	\$0.00	\$0.19	\$0.11	-\$0.29	\$0.08	-\$0.18	\$0.00	\$0.02	\$0.08	\$1.41
20-Aug	\$0.00	-\$22.77	\$0.00	\$0.00	\$0.00	\$0.03	\$0.00	-\$7.51	\$0.00	-\$0.07	\$0.00	-\$0.69
21-Aug	\$0.00	\$0.00	\$0.00	\$0.28	\$0.00	\$0.09	-\$0.15	-\$1.74	\$0.00	\$0.09	\$0.03	-\$0.24
22-Aug	\$0.00	-\$22.97	\$0.00	-\$0.27	-\$0.35	-\$0.19	-\$0.09	-\$0.63	\$0.00	-\$0.20	\$0.08	-\$0.01
23-Aug	-\$0.07	\$0.46	\$0.00	-\$1.86	-\$0.25	-\$0.65	-\$0.53	-\$6.23	\$0.00	\$0.29	-\$0.04	-\$2.65
26-Aug	\$0.00	-\$0.70	\$0.00	-\$0.22	-\$0.03	-\$0.50	\$0.09	\$0.33	-\$2.76	\$0.39	-\$0.01	-\$14.22
27-Aug	-\$0.00	-\$5.27	\$0.00	\$0.01	-\$0.00	-\$0.17	-\$0.09	\$3.22	\$0.00	-\$0.20	\$0.03	-\$1.15
28-Aug	\$0.02	-\$5.54	\$0.00	-\$6.97	\$0.00	\$0.01	-\$0.02	\$0.03	\$0.00	-\$3.11	\$0.00	-\$0.76
29-Aug	-\$1.11	-\$13.77	-\$0.00	\$0.19	-\$3.13	-\$0.65	-\$0.14	-\$4.67	-\$0.00	-\$0.87	\$0.06	\$8.56
30-Aug	\$0.00	-\$5.30	\$0.00	-\$2.25	-\$0.82	-\$0.07	\$0.38	-\$7.36	\$0.00	-\$0.11	\$0.05	-\$1.93
02-Sep	\$0.00	\$0.03	\$0.00	-\$0.59	-\$0.06	-\$0.08	-\$1.42	-\$0.03	\$0.00	-\$1.24	\$0.00	-\$1.42
03-Sep	\$0.24	-\$0.03	\$0.00	-\$0.81	-\$0.55	\$0.86	\$0.38	\$21.02	\$0.00	-\$0.53	\$1.67	-\$1.09
04-Sep	\$0.00	\$17.61	\$0.00	-\$0.05	-\$13.68	-\$0.36	-\$0.11	\$0.15	-\$0.27	-\$8.21	\$0.56	-\$2.95
05-Sep	\$0.00	-\$4.51	\$0.00	\$0.66	-\$0.18	-\$0.45	-\$0.02	-\$1.12	\$0.00	-\$10.66	-\$1.05	-\$10.77
06-Sep	\$0.00	\$0.04	\$0.00	-\$0.11	\$0.00	\$0.02	-\$1.56	-\$0.93	\$0.00	-\$0.47	-\$0.00	-\$1.57
09-Sep	\$0.01	\$0.05	\$0.00	\$0.02	-\$0.13	\$0.21	\$2.10	\$0.00	\$0.00	-\$0.33	\$0.19	\$1.21
10-Sep	\$0.00	\$2.12	\$0.00	\$0.28	\$0.00	\$0.01	\$0.00	\$0.14	\$0.00	-\$0.18	\$0.13	-\$1.81
11-Sep	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01	\$0.00	\$0.00	\$0.31	\$0.05	-\$0.60
12-Sep	\$0.00	\$0.10	\$0.00	-\$0.23	\$0.00	-\$0.13	-\$0.23	\$0.01	\$0.00	-\$1.69	\$0.00	-\$1.78
13-Sep	-\$0.01	\$6.56	\$0.00	\$2.76	\$0.02	-\$2.35	\$1.63	\$1.01	\$0.00	-\$0.31	\$0.09	-\$1.17
16-Sep	-\$0.04	\$0.01	\$0.00	\$0.60	\$0.00	\$0.00	\$0.00	-\$0.00	\$0.00	-\$0.01	\$0.00	-\$0.59
17-Sep	-\$0.00	\$0.01	\$0.00	-\$0.01	\$0.00	\$0.04	\$0.01	\$0.08	\$0.00	-\$0.38	\$0.00	-\$0.42
18-Sep	\$0.00	\$0.04	\$0.00	-\$0.19	\$0.01	\$0.01	\$0.00	\$0.01	\$0.00	-\$1.00	\$0.06	-\$1.30
19-Sep	\$0.00	-\$6.04	\$0.00	-\$0.17	\$0.01	-\$0.10	\$0.00	-\$0.02	-\$51.46	\$0.09	\$0.00	-\$0.73
20-Sep	\$0.00	\$0.07	\$0.00	\$0.01	\$0.00	\$0.00	-\$0.04	-\$0.07	\$0.00	\$0.04	\$0.00	-\$4.36
23-Sep	\$0.00	\$0.22	\$0.00	-\$0.76	\$0.00	\$0.07	-\$0.09	-\$0.02	\$0.00	\$0.01	\$0.00	-\$4.66
24-Sep	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.06	\$0.00	\$0.05	\$0.00	-\$0.33	\$0.00	-\$0.36
25-Sep	\$0.00	\$0.15	\$0.00	-\$0.24	\$0.01	\$0.02	\$0.00	\$0.00	\$0.00	\$0.04	\$0.17	-\$4.62
26-Sep	\$0.00	\$0.00	\$0.00	-\$1.14	-\$0.22	\$0.12	\$0.02	\$0.02	\$0.00	-\$1.02	\$0.00	\$9.50
27-Sep	\$0.00	\$0.00	\$0.00	\$0.04	-\$0.28	\$0.03	\$0.01	\$0.01	\$0.00	-\$0.63	\$0.03	\$0.01
30-Sep	\$0.00	\$0.31	\$0.56	\$0.18	-\$0.10	-\$0.14	-\$0.06	\$0.06	\$0.00	-\$0.39	\$0.35	-\$1.20

e. Slippage (d2) Minus LP2

The average shown is mean average across all executed trades in the quarter.

	EURGBP	EURJPY	EURNOK	EURUSD	GBPJPY	GBPUSD	USDCAD	USDJPY	USDNOK	XAUUSD	All Other FX	All Other Non-FX
01-Jul	\$0.00	\$0.06	\$0.00	-\$0.58	-\$0.02	-\$0.24	\$0.00	-\$0.02	\$0.00	-\$27.33	\$0.00	-\$4.42
02-Jul	\$0.00	-\$0.33	\$0.00	-\$0.45	-\$0.08	\$0.05	\$0.01	-\$0.04	\$0.00	-\$0.00	\$0.00	-\$6.77
03-Jul	\$0.00	-\$1.30	\$0.00	-\$0.21	\$0.00	\$0.02	-\$0.01	\$0.13	\$0.00	-\$6.57	\$0.11	-\$1.54
04-Jul	\$0.00	-\$0.01	\$0.00	-\$1.33	\$0.00	\$0.00	\$0.11	-\$0.03	\$0.00	-\$1.98	\$0.16	-\$0.84
05-Jul	\$0.00	-\$0.11	\$0.00	-\$1.22	\$0.00	-\$0.24	\$0.00	-\$0.12	\$0.00	-\$6.32	\$0.02	-\$2.76
08-Jul	\$0.00	-\$0.02	\$0.00	\$0.09	\$0.00	-\$0.02	\$0.00	\$0.36	\$0.00	-\$3.02	\$1.51	-\$3.30
09-Jul	-\$0.01	-\$0.12	\$0.00	-\$0.08	\$0.00	-\$0.25	\$0.00	\$0.01	\$0.00	-\$0.51	-\$0.13	-\$0.73
10-Jul	\$0.00	-\$0.01	\$0.00	\$0.13	\$0.07	-\$1.55	\$0.02	\$0.15	\$0.00	\$0.60	\$0.00	-\$3.02
11-Jul	-\$0.51	\$0.01	\$0.00	-\$0.82	\$0.00	-\$0.25	\$0.00	-\$0.12	\$0.00	\$0.07	\$0.03	-\$4.83
12-Jul	\$0.00	\$0.00	\$0.00	-\$0.83	-\$0.00	-\$1.16	\$0.00	\$0.02	\$0.00	-\$0.20	\$0.05	-\$2.04
15-Jul	\$0.00	\$0.01	\$0.00	\$0.58	-\$0.47	-\$0.43	\$0.00	\$0.00	\$0.00	-\$0.03	\$0.12	-\$0.53
16-Jul	\$0.00	\$0.06	\$0.00	-\$1.55	-\$2.79	-\$0.03	\$0.00	-\$1.24	\$0.00	\$0.23	\$0.00	-\$0.79
17-Jul	\$0.13	\$0.03	\$0.00	\$0.02	-\$1.66	-\$0.07	\$0.01	-\$0.01	\$0.00	-\$0.49	\$0.76	-\$0.71
18-Jul	-\$0.01	-\$0.08	\$0.00	-\$0.13	-\$0.03	-\$0.10	\$0.18	\$0.03	\$0.00	-\$1.30	\$4.43	-\$18.64
19-Jul	\$0.01	\$0.01	\$0.00	-\$1.16	\$0.25	-\$0.38	-\$0.01	-\$0.03	\$0.00	-\$4.70	\$1.93	-\$5.35
22-Jul	-\$0.03	-\$0.08	\$0.00	\$0.30	\$0.11	-\$0.91	-\$0.94	-\$0.00	\$0.00	-\$1.09	-\$0.29	-\$5.65
23-Jul	-\$0.03	\$0.01	\$0.00	-\$0.34	\$0.01	-\$0.03	-\$0.51	\$0.13	-\$1.76	-\$0.01	\$0.39	-\$2.21
24-Jul	-\$0.12	\$0.66	\$0.00	-\$10.17	-\$0.13	-\$0.31	-\$0.12	-\$0.01	\$0.00	-\$0.67	\$0.00	-\$1.60
25-Jul	\$0.17	-\$0.54	\$0.00	-\$1.46	-\$0.13	-\$0.80	-\$0.00	-\$0.15	\$0.00	-\$0.23	-\$0.65	-\$16.68
26-Jul	-\$0.00	-\$0.03	\$0.00	-\$0.17	-\$0.02	\$0.13	\$0.59	-\$0.16	\$0.00	-\$0.08	-\$0.94	\$0.88
29-Jul	\$0.01	-\$0.00	\$0.00	\$0.02	\$0.01	-\$0.57	-\$0.04	-\$0.01	\$0.00	-\$1.82	\$0.07	-\$1.17
30-Jul	-\$0.50	\$0.00	\$0.00	\$0.14	\$0.01	-\$0.77	\$0.00	\$0.16	\$0.00	-\$0.88	\$0.00	-\$1.18
31-Jul	-\$3.06	\$0.43	\$0.00	-\$2.31	\$0.28	-\$0.53	-\$0.09	-\$1.19	\$1.23	-\$4.89	\$0.33	\$0.21
01-Aug	-\$0.59	\$0.09	\$0.00	-\$5.71	-\$0.13	-\$3.51	\$0.00	\$0.56	\$0.16	-\$2.57	-\$0.88	-\$7.65
02-Aug	-\$0.01	\$1.38	\$0.00	-\$0.94	-\$0.12	-\$0.08	-\$0.11	\$0.58	\$3.52	-\$15.22	-\$0.59	-\$1.20
05-Aug	\$0.00	\$0.00	\$0.00	-\$0.91	-\$0.03	-\$0.95	\$0.01	-\$0.01	\$0.00	-\$0.29	\$0.89	-\$1.06
06-Aug	\$0.00	-\$0.02	\$0.00	-\$1.93	\$0.02	\$0.00	\$0.00	\$0.03	\$0.00	-\$8.98	\$0.05	-\$3.12
07-Aug	\$0.00	\$0.00	\$0.00	\$0.09	\$0.00	-\$0.07	\$0.15	\$0.01	\$0.00	-\$0.47	\$0.08	\$2.30
08-Aug	\$0.00	-\$0.00	\$0.00	\$0.39	\$0.05	\$0.00	\$0.01	\$0.00	\$0.00	-\$0.88	\$0.19	-\$91.64
09-Aug	\$0.00	\$0.10	\$0.00	\$0.01	\$0.00	-\$12.12	\$0.02	\$0.03	\$0.00	-\$0.27	\$0.00	-\$0.90
12-Aug	-\$0.01	-\$0.01	\$0.00	\$0.62	\$0.19	\$0.12	\$0.14	-\$0.01	\$0.00	-\$8.40	-\$0.02	-\$1.71

13-Aug	\$1.35	\$0.11	\$0.00	\$0.03	\$0.06	-\$0.12	-\$0.08	\$0.23	\$0.00	-\$0.42	\$2.71	\$0.18
14-Aug	\$0.00	\$0.02	\$0.00	-\$0.06	\$0.00	\$0.04	-\$0.00	\$0.00	\$0.00	-\$3.32	\$1.50	-\$1.90
15-Aug	\$0.00	\$7.46	\$0.00	\$1.72	\$0.02	\$0.31	\$0.28	\$0.06	\$0.00	-\$0.86	\$0.97	-\$4.60
16-Aug	\$0.00	\$2.01	\$0.00	\$0.44	\$0.00	-\$0.36	\$0.00	\$0.00	\$0.00	-\$3.68	\$0.07	-\$0.38
19-Aug	\$0.00	\$0.00	\$0.00	\$0.19	\$0.11	-\$0.29	\$0.08	-\$0.18	\$0.00	\$0.02	\$0.72	\$1.41
20-Aug	\$0.00	-\$22.77	\$0.00	\$0.00	\$0.00	\$0.03	\$0.00	-\$7.51	\$0.00	-\$0.07	\$0.00	-\$0.69
21-Aug	\$0.00	\$0.00	\$0.00	\$0.28	\$0.00	\$0.09	-\$0.15	-\$1.74	\$0.00	\$0.09	\$0.03	-\$0.24
22-Aug	\$0.00	-\$22.97	\$0.00	-\$0.27	-\$0.35	-\$0.19	-\$0.09	-\$0.63	\$0.00	-\$0.20	\$0.21	-\$0.01
23-Aug	-\$0.07	\$0.46	\$0.00	-\$1.86	-\$0.25	-\$0.65	-\$0.53	-\$6.23	\$0.00	\$0.29	\$0.01	-\$2.65
26-Aug	\$0.00	-\$0.70	\$0.00	-\$0.22	-\$0.03	-\$0.50	\$0.09	\$0.33	-\$2.76	\$0.39	-\$0.01	-\$14.22
27-Aug	-\$0.00	-\$5.27	\$0.00	\$0.01	-\$0.00	-\$0.17	-\$0.09	\$3.22	\$0.00	-\$0.20	\$0.04	-\$1.15
28-Aug	\$0.02	-\$5.54	\$0.00	-\$6.97	\$0.00	\$0.01	-\$0.02	\$0.03	\$0.00	-\$3.11	\$0.00	-\$0.76
29-Aug	-\$1.11	-\$13.77	-\$0.00	\$0.19	-\$3.13	-\$0.65	-\$0.14	-\$4.67	-\$0.00	-\$0.87	\$0.06	\$8.56
30-Aug	\$0.00	-\$5.30	\$0.00	-\$2.25	-\$0.82	-\$0.07	\$0.38	-\$7.36	\$0.00	-\$0.11	\$0.05	-\$1.93
02-Sep	\$0.00	\$0.03	\$0.00	-\$0.59	-\$0.06	-\$0.08	-\$1.42	-\$0.03	\$0.00	-\$1.24	\$2.43	-\$1.42
03-Sep	\$0.24	-\$0.03	\$0.00	-\$0.81	-\$0.55	\$0.86	\$0.38	\$21.02	\$0.00	-\$0.53	\$1.58	-\$1.09
04-Sep	\$0.00	\$17.61	\$0.00	-\$0.05	-\$14.26	-\$0.36	-\$0.11	\$0.15	-\$0.27	-\$8.21	\$0.83	-\$2.95
05-Sep	\$0.00	-\$4.51	\$0.00	\$0.66	-\$0.18	-\$0.45	-\$0.02	-\$1.12	\$0.00	-\$10.66	-\$1.05	-\$10.77
06-Sep	\$0.00	\$0.04	\$0.00	-\$0.11	\$0.00	\$0.02	-\$1.56	-\$0.93	\$0.00	-\$0.47	-\$0.00	-\$1.57
09-Sep	\$0.01	\$0.05	\$0.00	\$0.02	-\$0.13	\$0.21	\$2.10	\$0.00	\$0.00	-\$0.33	\$1.23	\$1.21
10-Sep	\$0.00	\$2.12	\$0.00	\$0.28	\$0.00	\$0.01	\$0.00	\$0.14	\$0.00	-\$0.18	\$0.00	-\$1.81
11-Sep	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01	\$0.00	\$0.00	\$0.31	\$0.06	-\$0.60
12-Sep	\$0.00	\$0.10	\$0.00	-\$0.23	\$0.00	-\$0.13	-\$0.23	\$0.01	\$0.00	-\$1.69	\$0.00	-\$1.78
13-Sep	-\$0.01	\$6.56	\$0.00	\$2.76	\$0.02	-\$2.35	\$1.63	\$1.01	\$0.00	-\$0.31	\$0.09	-\$1.17
16-Sep	-\$0.04	\$0.01	\$0.00	\$0.60	\$0.00	\$0.00	\$0.00	-\$0.00	\$0.00	-\$0.01	\$0.00	-\$0.59
17-Sep	-\$0.00	\$0.01	\$0.00	-\$0.01	\$0.00	\$0.04	\$0.01	\$0.08	\$0.00	-\$0.38	\$0.00	-\$0.42
18-Sep	\$0.00	\$0.04	\$0.00	-\$0.19	\$0.01	\$0.01	\$0.00	\$0.01	\$0.00	-\$1.00	\$0.06	-\$1.30
19-Sep	\$0.00	-\$6.04	\$0.00	-\$0.17	\$0.01	-\$0.10	\$0.00	-\$0.02	-\$51.46	\$0.09	\$0.00	-\$0.73
20-Sep	\$0.00	\$0.07	\$0.00	\$0.01	\$0.00	\$0.00	-\$0.04	-\$0.07	\$0.00	\$0.04	\$0.00	-\$4.36
23-Sep	\$0.00	\$0.22	\$0.00	-\$0.76	\$0.00	\$0.07	-\$0.09	-\$0.02	\$0.00	\$0.01	\$0.00	-\$4.66
24-Sep	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.06	\$0.00	\$0.05	\$0.00	-\$0.33	\$0.00	-\$0.36
25-Sep	\$0.00	\$0.15	\$0.00	-\$0.24	\$0.01	\$0.02	\$0.00	\$0.00	\$0.00	\$0.04	\$0.18	-\$4.62
26-Sep	\$0.00	\$0.00	\$0.00	-\$1.14	-\$0.22	\$0.12	\$0.02	\$0.02	\$0.00	-\$1.02	\$0.00	\$9.50
27-Sep	\$0.00	\$0.00	\$0.00	\$0.04	-\$0.28	\$0.03	\$0.01	\$0.01	\$0.00	-\$0.63	\$0.03	\$0.01
30-Sep	\$0.00	\$0.31	\$0.56	\$0.18	-\$0.10	-\$0.14	-\$0.06	\$0.06	\$0.00	-\$0.39	\$0.37	-\$1.20

