



# Chromatograph Report

from Contract Day 08/01/2019 to Contract Day 08/31/2019

Station ID: CBTC

Analysis ID: CBTC

Analysis Name: WGIS (CHALK BL TO CHEY)

Company Name: PUBLIC SERVICE OF COLORADO

Effective Date	Sat. HV	As Del HV	Dry HV	Meas. HV	Water Content	Wobbe	Real Gravity	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	N2	CO2	O2	H2O	CO	H2S	H2	He
08/01/2019 00:00	1083.4	0.0	1102.6	0.0		1367.4	0.6502	86.6503	8.8808	1.7830	0.1636	0.2924	0.0481	0.0513	0.0142	0.0000	0.0000	0.0000	0.0000	0.7239	1.3765	0.0000	1.4852	0.0000	0.0000	0.0000	0.0000
08/02/2019 00:00	1081.7	0.0	1100.8	0.0		1367.1	0.6484	87.0248	8.5532	1.6319	0.3130	0.2717	0.0454	0.0504	0.0145	0.0000	0.0000	0.0000	0.0000	0.7206	1.3583	0.0000	1.4252	0.0000	0.0000	0.0000	0.0000
08/03/2019 00:00	1080.7	0.0	1099.9	0.0		1366.3	0.6480	86.9226	8.8109	1.6130	0.1776	0.2771	0.0473	0.0527	0.0153	0.0000	0.0000	0.0000	0.0000	0.6911	1.3754	0.0000	1.4739	0.0000	0.0000	0.0000	0.0000
08/04/2019 00:00	1083.0	0.0	1102.3	0.0		1366.9	0.6502	86.5862	8.9932	1.7275	0.1458	0.2935	0.0500	0.0541	0.0151	0.0000	0.0000	0.0000	0.0000	0.7193	1.3986	0.0000	1.4756	0.0000	0.0000	0.0000	0.0000
08/05/2019 00:00	1083.9	0.0	1103.1	0.0		1368.2	0.6500	86.6576	8.9409	1.7295	0.1896	0.2873	0.0477	0.0517	0.0147	0.0000	0.0000	0.0000	0.0000	0.6985	1.3662	0.0000	1.4711	0.0000	0.0000	0.0000	0.0000
08/06/2019 00:00	1079.3	0.0	1098.3	0.0		1365.9	0.6466	86.8219	8.8943	1.6533	0.1373	0.2520	0.0411	0.0432	0.0123	0.0000	0.0000	0.0000	0.0000	0.7130	1.4179	0.0000	1.2564	0.0000	0.0000	0.0000	0.0000
08/07/2019 00:00	1078.4	0.0	1097.4	0.0		1366.8	0.6447	86.2014	9.1591	1.6395	0.2528	0.2045	0.0300	0.0306	0.0083	0.0000	0.0000	0.0000	0.0000	0.6739	1.4256	0.0000	1.0371	0.0000	0.0000	0.0000	0.0000
08/08/2019 00:00	1081.7	0.0	1100.8	0.0		1367.5	0.6480	86.0353	9.3422	1.7705	0.1295	0.2506	0.0388	0.0411	0.0113	0.0000	0.0000	0.0000	0.0000	0.6603	1.4770	0.0000	1.1313	0.0000	0.0000	0.0000	0.0000
08/09/2019 00:00	1087.9	0.0	1107.1	0.0		1371.2	0.6520	86.1122	9.4320	1.8115	0.1716	0.2808	0.0440	0.0475	0.0127	0.0000	0.0000	0.0000	0.0000	0.6232	1.4506	0.0000	1.2793	0.0000	0.0000	0.0000	0.0000
08/10/2019 00:00	1092.9	0.0	1112.2	0.0		1375.8	0.6536	85.8623	9.7016	1.8708	0.1430	0.3233	0.0521	0.0567	0.0156	0.0000	0.0000	0.0000	0.0000	0.5329	1.4245	0.0000	1.2423	0.0000	0.0000	0.0000	0.0000
08/11/2019 00:00	1091.9	0.0	1111.2	0.0		1375.2	0.6529	85.5052	9.9553	1.8521	0.1378	0.3027	0.0461	0.0508	0.0137	0.0000	0.0000	0.0000	0.0000	0.5268	1.4731	0.0000	1.1115	0.0000	0.0000	0.0000	0.0000
08/12/2019 00:00	1089.7	0.0	1108.9	0.0		1373.1	0.6522	86.0813	9.4990	1.8165	0.1596	0.2994	0.0487	0.0535	0.0150	0.0000	0.0000	0.0000	0.0000	0.5782	1.4321	0.0000	1.2616	0.0000	0.0000	0.0000	0.0000
08/13/2019 00:00	1090.1	0.0	1109.4	0.0		1371.8	0.6540	86.0440	9.2916	1.7952	0.3406	0.2826	0.0459	0.0502	0.0143	0.0000	0.0000	0.0000	0.0000	0.6406	1.4795	0.0000	1.2690	0.0000	0.0000	0.0000	0.0000
08/14/2019 00:00	1085.2	0.0	1104.4	0.0		1369.2	0.6505	86.3258	9.2668	1.7556	0.1774	0.2631	0.0415	0.0453	0.0128	0.0000	0.0000	0.0000	0.0000	0.6486	1.4491	0.0000	1.2974	0.0000	0.0000	0.0000	0.0000
08/15/2019 00:00	1084.9	0.0	1104.1	0.0		1369.1	0.6503	86.2511	9.3635	1.7731	0.1183	0.2660	0.0429	0.0468	0.0133	0.0000	0.0000	0.0000	0.0000	0.6424	1.4681	0.0000	1.2586	0.0000	0.0000	0.0000	0.0000
08/16/2019 00:00	1087.9	0.0	1107.0	0.0		1371.3	0.6517	84.9395	10.3319	1.7726	0.1047	0.2616	0.0397	0.0436	0.0118	0.0000	0.0000	0.0000	0.0000	0.5638	1.5509	0.0000	1.0468	0.0000	0.0000	0.0000	0.0000
08/17/2019 00:00	1099.3	0.0	1118.7	0.0		1375.3	0.6616	83.6292	11.3724	1.8802	0.1326	0.3119	0.0503	0.0548	0.0148	0.0000	0.0000	0.0000	0.0000	0.4900	1.7295	0.0000	1.1129	0.0000	0.0000	0.0000	0.0000
08/18/2019 00:00	1095.6	0.0	1114.9	0.0		1374.5	0.6580	83.9153	11.2167	1.7923	0.1274	0.2834	0.0450	0.0492	0.0136	0.0000	0.0000	0.0000	0.0000	0.4992	1.6651	0.0000	1.0597	0.0000	0.0000	0.0000	0.0000
08/19/2019 00:00	1096.8	0.0	1116.2	0.0		1375.1	0.6589	83.8965	11.2204	1.8266	0.1328	0.2875	0.0466	0.0510	0.0144	0.0000	0.0000	0.0000	0.0000	0.5192	1.6692	0.0000	1.0333	0.0000	0.0000	0.0000	0.0000
08/20/2019 00:00	1094.7	0.0	1114.0	0.0		1373.1	0.6582	84.2646	10.8143	1.8402	0.1313	0.3064	0.0498	0.0552	0.0157	0.0000	0.0000	0.0000	0.0000	0.5470	1.6766	0.0000	1.0839	0.0000	0.0000	0.0000	0.0000
08/21/2019 00:00	1091.3	0.0	1110.5	0.0		1371.3	0.6558	84.0820	10.9637	1.7374	0.1254	0.2770	0.0451	0.0500	0.0141	0.0000	0.0000	0.0000	0.0000	0.5195	1.7033	0.0000	1.0073	0.0000	0.0000	0.0000	0.0000
08/22/2019 00:00	1087.6	0.0	1106.7	0.0		1367.7	0.6548	84.5487	10.7947	1.6098	0.0843	0.2615	0.0420	0.0458	0.0125	0.0000	0.0000	0.0000	0.0000	0.5576	1.7593	0.0000	1.0627	0.0000	0.0000	0.0000	0.0000
08/23/2019 00:00	1098.7	0.0	1118.0	0.0		1374.7	0.6615	83.5882	11.2280	1.9082	0.1412	0.3377	0.0554	0.0608	0.0169	0.0000	0.0000	0.0000	0.0000	0.5207	1.7698	0.0000	0.9931	0.0000	0.0000	0.0000	0.0000
08/24/2019 00:00	1098.0	0.0	1117.3	0.0		1374.1	0.6612	83.7680	11.0173	1.9660	0.1399	0.3348	0.0548	0.0592	0.0159	0.0000	0.0000	0.0000	0.0000	0.5207	1.7475	0.0000	1.0693	0.0000	0.0000	0.0000	0.0000
08/25/2019 00:00	1091.9	0.0	1111.1	0.0		1369.4	0.6584	84.2604	10.6968	1.8358	0.1070	0.3109	0.0517	0.0555	0.0151	0.0000	0.0000	0.0000	0.0000	0.5980	1.7129	0.0000	1.2163	0.0000	0.0000	0.0000	0.0000
08/26/2019 00:00	1093.2	0.0	1112.5	0.0		1371.8	0.6577	84.5932	10.6375	1.8508	0.1441	0.2659	0.0411	0.0438	0.0116	0.0000	0.0000	0.0000	0.0000	0.5956	1.6842	0.0000	1.0844	0.0000	0.0000	0.0000	0.0000
08/27/2019 00:00	1094.9	0.0	1114.2	0.0		1372.5	0.6590	84.2774	10.7184	1.7897	0.2988	0.2649	0.0407	0.0438	0.0112	0.0000	0.0000	0.0000	0.0000	0.5640	1.7187	0.0000	1.0637	0.0000	0.0000	0.0000	0.0000
08/28/2019 00:00	1102.0	0.0	1121.5	0.0		1374.9	0.6653	83.9265	11.1288	1.9704	0.1472	0.3374	0.0553	0.0607	0.0160	0.0000	0.0000	0.0000	0.0000	0.5522	1.7879	0.0000	1.2030	0.0000	0.0000	0.0000	0.0000
08/29/2019 00:00	1101.9	0.0	1121.4	0.0		1375.3	0.6648	83.9489	11.1568	1.8964	0.1718	0.3393	0.0566	0.0621	0.0168	0.0000	0.0000	0.0000	0.0000	0.5457	1.7869	0.0000	1.1495	0.0000	0.0000	0.0000	0.0000
08/30/2019 00:00	1108.5	0.0	1128.0	0.0		1380.3	0.6678	83.7753	11.0189	2.0367	0.4160	0.3360	0.0518	0.0564	0.0144	0.0000	0.0000	0.0000	0.0000	0.5293	1.7493	0.0000	1.0698	0.0000	0.0000	0.0000	0.0000
08/31/2019 00:00	1098.7	0.0	1118.1	0.0		1373.8	0.6624	83.9981	11.0283	1.9286	0.1410	0.3169	0.0518	0.0560	0.0152	0.0000	0.0000	0.0000	0.0000	0.5523	1.7725	0.0000	1.1027	0.0000	0.0000	0.0000	0.0000
Flow Weighted Average:	1092.0	0.0	1111.2	0.0			0.6561	84.9610	10.2806	1.8135	0.1684	0.2922	0.0471	0.0512	0.0140	0.0000	0.0000	0.0000	0.0000	0.5838	1.6047	0.0000	1.1658	0.0000	0.0000	0.0000	0.0000



PUBLIC SERVICE OF COLORADO

9/3/2019 12:00 PM

Micah Zamora

Chromatograph Report

from Contract Day 08/01/2019 to Contract Day 08/31/2019

Station ID: CHMBRS CMP

Analysis ID: CBTC

Analysis Name: WGIS (CHALK BL TO CHEY)

Company Name: PUBLIC SERVICE OF COLORADO

Table with columns: Effective Date, Sat. HV, As Del HV, Dry HV, Meas. HV, Water Content, Wobbe, Real Gravity, C1, C2, C3, IC4, NC4, IC5, NC5, C6, C7, C8, C9, C10, N2, CO2, O2, H2O, CO, H2S, H2, He. Includes a 'Flow Weighted Average' row at the bottom.



PUBLIC SERVICE OF COLORADO

9/3/2019 12:00 PM

Micah Zamora

Chromatograph Report

from Contract Day 08/01/2019 to Contract Day 08/31/2019

Station ID: RTU631

Analysis ID: CBTC

Analysis Name: WGIS (CHALK BL TO CHEY)

Company Name: PUBLIC SERVICE OF COLORADO

Effective Date	Sat. HV	As Del HV	Dry HV	Meas. HV	Water Content	Wobbe	Real Gravity	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	N2	CO2	O2	H2O	CO	H2S	H2	He	
08/01/2019 00:00	1091.2	0.0	1110.6	0.0		1372.5	0.6548	86.1754	9.1331	2.0251	0.1675	0.3393	0.0538	0.0554	0.0149	0.0000	0.0000	0.0000	0.0000	0.6883	1.3305	0.0000	1.5780	0.0000	0.0000	0.0000	0.0000	0.0000
08/02/2019 00:00	1086.5	0.0	1105.8	0.0		1369.9	0.6516	86.6698	8.7456	1.7605	0.3498	0.2876	0.0472	0.0521	0.0146	0.0000	0.0000	0.0000	0.0000	0.6832	1.3733	0.0000	1.4487	0.0000	0.0000	0.0000	0.0000	0.0000
08/03/2019 00:00	1078.8	0.0	1097.9	0.0		1366.0	0.6460	87.2211	8.5806	1.5959	0.1768	0.2694	0.0454	0.0509	0.0148	0.0000	0.0000	0.0000	0.0000	0.7117	1.3171	0.0000	1.4665	0.0000	0.0000	0.0000	0.0000	0.0000
08/04/2019 00:00	1083.0	0.0	1102.2	0.0		1366.9	0.6502	86.5869	8.9922	1.7274	0.1458	0.2934	0.0500	0.0540	0.0151	0.0000	0.0000	0.0000	0.0000	0.7198	1.3987	0.0000	1.4758	0.0000	0.0000	0.0000	0.0000	0.0000
08/05/2019 00:00	1083.8	0.0	1103.0	0.0		1368.2	0.6500	86.6632	8.9373	1.7272	0.1893	0.2869	0.0476	0.0517	0.0146	0.0000	0.0000	0.0000	0.0000	0.6991	1.3668	0.0000	1.4694	0.0000	0.0000	0.0000	0.0000	0.0000
08/06/2019 00:00	1079.3	0.0	1098.3	0.0		1365.9	0.6466	86.8226	8.8951	1.6526	0.1372	0.2517	0.0410	0.0432	0.0123	0.0000	0.0000	0.0000	0.0000	0.7128	1.4178	0.0000	1.2555	0.0000	0.0000	0.0000	0.0000	0.0000
08/07/2019 00:00	1078.2	0.0	1097.2	0.0		1366.6	0.6446	86.2156	9.1465	1.6379	0.2519	0.2043	0.0300	0.0305	0.0083	0.0000	0.0000	0.0000	0.0000	0.6763	1.4265	0.0000	1.0366	0.0000	0.0000	0.0000	0.0000	0.0000
08/08/2019 00:00	1081.8	0.0	1100.9	0.0		1367.5	0.6480	86.0365	9.3430	1.7716	0.1298	0.2512	0.0390	0.0413	0.0114	0.0000	0.0000	0.0000	0.0000	0.6602	1.4775	0.0000	1.1332	0.0000	0.0000	0.0000	0.0000	0.0000
08/09/2019 00:00	1087.9	0.0	1107.1	0.0		1371.2	0.6520	86.1120	9.4320	1.8115	0.1716	0.2808	0.0440	0.0475	0.0127	0.0000	0.0000	0.0000	0.0000	0.6233	1.4506	0.0000	1.2793	0.0000	0.0000	0.0000	0.0000	0.0000
08/10/2019 00:00	1092.9	0.0	1112.2	0.0		1375.8	0.6536	85.8623	9.7019	1.8707	0.1430	0.3233	0.0521	0.0567	0.0156	0.0000	0.0000	0.0000	0.0000	0.5329	1.4244	0.0000	1.2426	0.0000	0.0000	0.0000	0.0000	0.0000
08/11/2019 00:00	1091.9	0.0	1111.2	0.0		1375.2	0.6529	85.5071	9.9545	1.8519	0.1377	0.3026	0.0461	0.0508	0.0137	0.0000	0.0000	0.0000	0.0000	0.5269	1.4731	0.0000	1.1120	0.0000	0.0000	0.0000	0.0000	0.0000
08/12/2019 00:00	1089.7	0.0	1108.9	0.0		1373.1	0.6522	86.0816	9.4985	1.8163	0.1598	0.2994	0.0487	0.0535	0.0150	0.0000	0.0000	0.0000	0.0000	0.5782	1.4322	0.0000	1.2615	0.0000	0.0000	0.0000	0.0000	0.0000
08/13/2019 00:00	1090.1	0.0	1109.4	0.0		1371.8	0.6540	86.0435	9.2919	1.7954	0.3406	0.2827	0.0459	0.0502	0.0143	0.0000	0.0000	0.0000	0.0000	0.6405	1.4794	0.0000	1.2692	0.0000	0.0000	0.0000	0.0000	0.0000
08/14/2019 00:00	1085.2	0.0	1104.4	0.0		1369.3	0.6505	86.3259	9.2673	1.7555	0.1773	0.2630	0.0415	0.0453	0.0128	0.0000	0.0000	0.0000	0.0000	0.6484	1.4489	0.0000	1.2968	0.0000	0.0000	0.0000	0.0000	0.0000
08/15/2019 00:00	1084.9	0.0	1104.1	0.0		1369.1	0.6504	86.2505	9.3648	1.7732	0.1186	0.2661	0.0429	0.0468	0.0133	0.0000	0.0000	0.0000	0.0000	0.6414	1.4676	0.0000	1.2600	0.0000	0.0000	0.0000	0.0000	0.0000
08/16/2019 00:00	1087.8	0.0	1106.9	0.0		1371.2	0.6517	84.9714	10.3064	1.7724	0.1053	0.2617	0.0398	0.0436	0.0118	0.0000	0.0000	0.0000	0.0000	0.5659	1.5497	0.0000	1.0514	0.0000	0.0000	0.0000	0.0000	0.0000
08/17/2019 00:00	1099.2	0.0	1118.6	0.0		1375.3	0.6616	83.6288	11.3709	1.8802	0.1326	0.3117	0.0502	0.0548	0.0148	0.0000	0.0000	0.0000	0.0000	0.4898	1.7290	0.0000	1.1122	0.0000	0.0000	0.0000	0.0000	0.0000
08/18/2019 00:00	1095.7	0.0	1115.0	0.0		1374.5	0.6580	83.9217	11.2166	1.7916	0.1274	0.2833	0.0450	0.0492	0.0136	0.0000	0.0000	0.0000	0.0000	0.4994	1.6637	0.0000	1.0612	0.0000	0.0000	0.0000	0.0000	0.0000
08/19/2019 00:00	1096.9	0.0	1116.2	0.0		1375.1	0.6589	83.8973	11.2218	1.8268	0.1328	0.2875	0.0466	0.0510	0.0144	0.0000	0.0000	0.0000	0.0000	0.5191	1.6698	0.0000	1.0342	0.0000	0.0000	0.0000	0.0000	0.0000
08/20/2019 00:00	1094.7	0.0	1114.0	0.0		1373.1	0.6582	84.2741	10.8097	1.8417	0.1312	0.3067	0.0499	0.0553	0.0157	0.0000	0.0000	0.0000	0.0000	0.5471	1.6762	0.0000	1.0850	0.0000	0.0000	0.0000	0.0000	0.0000
08/21/2019 00:00	1091.1	0.0	1110.3	0.0		1371.2	0.6557	84.0863	10.9706	1.7293	0.1245	0.2756	0.0448	0.0497	0.0140	0.0000	0.0000	0.0000	0.0000	0.5202	1.7055	0.0000	1.0051	0.0000	0.0000	0.0000	0.0000	0.0000
08/22/2019 00:00	1086.8	0.0	1106.0	0.0		1367.3	0.6543	84.5346	10.8048	1.5903	0.0822	0.2570	0.0412	0.0449	0.0123	0.0000	0.0000	0.0000	0.0000	0.5560	1.7624	0.0000	1.0482	0.0000	0.0000	0.0000	0.0000	0.0000
08/23/2019 00:00	1098.7	0.0	1118.1	0.0		1374.7	0.6615	83.5874	11.2290	1.9086	0.1412	0.3378	0.0554	0.0609	0.0169	0.0000	0.0000	0.0000	0.0000	0.5206	1.7698	0.0000	0.9933	0.0000	0.0000	0.0000	0.0000	0.0000
08/24/2019 00:00	1098.0	0.0	1117.3	0.0		1374.1	0.6612	83.7710	11.0169	1.9657	0.1399	0.3347	0.0548	0.0592	0.0159	0.0000	0.0000	0.0000	0.0000	0.5209	1.7474	0.0000	1.0698	0.0000	0.0000	0.0000	0.0000	0.0000
08/25/2019 00:00	1091.9	0.0	1111.2	0.0		1369.4	0.6584	84.2621	10.6971	1.8359	0.1070	0.3109	0.0517	0.0555	0.0151	0.0000	0.0000	0.0000	0.0000	0.5980	1.7127	0.0000	1.2173	0.0000	0.0000	0.0000	0.0000	0.0000
08/26/2019 00:00	1093.2	0.0	1112.5	0.0		1371.8	0.6577	84.5950	10.6361	1.8522	0.1441	0.2660	0.0411	0.0438	0.0116	0.0000	0.0000	0.0000	0.0000	0.5958	1.6838	0.0000	1.0850	0.0000	0.0000	0.0000	0.0000	0.0000
08/27/2019 00:00	1094.8	0.0	1114.1	0.0		1372.4	0.6590	84.2764	10.7186	1.7884	0.2985	0.2645	0.0406	0.0437	0.0112	0.0000	0.0000	0.0000	0.0000	0.5640	1.7189	0.0000	1.0631	0.0000	0.0000	0.0000	0.0000	0.0000
08/28/2019 00:00	1101.3	0.0	1120.7	0.0		1374.5	0.6648	84.0019	11.0552	1.9761	0.1454	0.3319	0.0542	0.0593	0.0156	0.0000	0.0000	0.0000	0.0000	0.5602	1.7830	0.0000	1.1999	0.0000	0.0000	0.0000	0.0000	0.0000
08/29/2019 00:00	1101.9	0.0	1121.4	0.0		1375.3	0.6648	83.9467	11.1576	1.8977	0.1721	0.3392	0.0566	0.0621	0.0168	0.0000	0.0000	0.0000	0.0000	0.5457	1.7869	0.0000	1.1502	0.0000	0.0000	0.0000	0.0000	0.0000
08/31/2019 00:00	1098.7	0.0	1118.0	0.0		1373.8	0.6623	84.0010	11.0251	1.9284	0.1410	0.3167	0.0518	0.0559	0.0152	0.0000	0.0000	0.0000	0.0000	0.5528	1.7723	0.0000	1.1025	0.0000	0.0000	0.0000	0.0000	0.0000

Flow Weighted Average:	1090.7	0.0	1109.9	0.0		0.6549	85.1373	10.1537	1.8026	0.1588	0.2876	0.0462	0.0502	0.0138	0.0000	0.0000	0.0000	0.0000	0.0000	0.5892	1.5817	0.0000	1.1676	0.0000	0.0000	0.0000	0.0000	0.0000
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# PUBLIC SERVICE OF COLORADO

9/3/2019 12:00 PM

Micah Zamora

## Chromatograph Report

from Contract Day 08/01/2019 to Contract Day 08/31/2019

Station ID: WGI IN

Analysis ID: CBTC

Analysis Name: WGIS (CHALK BL TO CHEY)

Company Name: PUBLIC SERVICE OF COLORADO

Effective Date	Sat. HV	As Del HV	Dry HV	Meas. HV	Water Content	Wobble	Real Gravity	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	N2	CO2	O2	H2O	CO	H2S	H2	He	
08/01/2019 00:00	1083.8	0.0	1103.0	0.0		1367.7	0.6504	86.6420	8.8774	1.7841	0.1790	0.2929	0.0482	0.0515	0.0143	0.0000	0.0000	0.0000	0.0000	0.7197	1.3751	0.0000	1.4867	0.0000	0.0000	0.0000	0.0000	
08/02/2019 00:00	1081.7	0.0	1100.9	0.0		1367.1	0.6484	87.0221	8.5693	1.6289	0.3072	0.2723	0.0456	0.0507	0.0146	0.0000	0.0000	0.0000	0.0000	0.7175	1.3558	0.0000	1.4332	0.0000	0.0000	0.0000	0.0000	
08/03/2019 00:00	1080.7	0.0	1099.8	0.0		1366.3	0.6480	86.9325	8.8012	1.6156	0.1755	0.2780	0.0474	0.0528	0.0153	0.0000	0.0000	0.0000	0.0000	0.6913	1.3734	0.0000	1.4791	0.0000	0.0000	0.0000	0.0000	
08/04/2019 00:00	1082.9	0.0	1102.1	0.0		1366.8	0.6502	86.5860	8.9918	1.7269	0.1450	0.2924	0.0498	0.0538	0.0150	0.0000	0.0000	0.0000	0.0000	0.7225	1.4001	0.0000	1.4726	0.0000	0.0000	0.0000	0.0000	
08/05/2019 00:00	1083.8	0.0	1103.0	0.0		1368.2	0.6499	86.6682	8.9351	1.7259	0.1894	0.2863	0.0475	0.0515	0.0146	0.0000	0.0000	0.0000	0.0000	0.6998	1.3655	0.0000	1.4664	0.0000	0.0000	0.0000	0.0000	
08/06/2019 00:00	1079.3	0.0	1098.4	0.0		1366.0	0.6466	86.8139	8.9115	1.6504	0.1389	0.2493	0.0405	0.0426	0.0122	0.0000	0.0000	0.0000	0.0000	0.7104	1.4168	0.0000	1.2481	0.0000	0.0000	0.0000	0.0000	
08/07/2019 00:00	1079.0	0.0	1098.0	0.0		1367.1	0.6451	86.2415	9.1595	1.6410	0.2565	0.2054	0.0302	0.0307	0.0084	0.0000	0.0000	0.0000	0.0000	0.6748	1.4263	0.0000	1.0415	0.0000	0.0000	0.0000	0.0000	
08/08/2019 00:00	1082.0	0.0	1101.1	0.0		1367.5	0.6483	86.0323	9.3504	1.7728	0.1325	0.2514	0.0391	0.0415	0.0114	0.0000	0.0000	0.0000	0.0000	0.6609	1.4816	0.0000	1.1407	0.0000	0.0000	0.0000	0.0000	
08/09/2019 00:00	1088.1	0.0	1107.3	0.0		1371.3	0.6520	86.0950	9.4460	1.8154	0.1692	0.2820	0.0442	0.0476	0.0127	0.0000	0.0000	0.0000	0.0000	0.6221	1.4518	0.0000	1.2770	0.0000	0.0000	0.0000	0.0000	
08/10/2019 00:00	1092.8	0.0	1112.2	0.0		1375.7	0.6536	85.8696	9.6962	1.8686	0.1428	0.3230	0.0522	0.0567	0.0156	0.0000	0.0000	0.0000	0.0000	0.5342	1.4238	0.0000	1.2488	0.0000	0.0000	0.0000	0.0000	
08/11/2019 00:00	1092.0	0.0	1111.2	0.0		1375.1	0.6530	85.5510	9.9360	1.8509	0.1376	0.3022	0.0460	0.0507	0.0136	0.0000	0.0000	0.0000	0.0000	0.5292	1.4729	0.0000	1.1201	0.0000	0.0000	0.0000	0.0000	
08/12/2019 00:00	1089.7	0.0	1109.0	0.0		1373.2	0.6522	86.0852	9.4941	1.8155	0.1636	0.2990	0.0487	0.0535	0.0151	0.0000	0.0000	0.0000	0.0000	0.5778	1.4310	0.0000	1.2638	0.0000	0.0000	0.0000	0.0000	
08/13/2019 00:00	1090.1	0.0	1109.4	0.0		1371.8	0.6540	86.0442	9.3005	1.7934	0.3362	0.2820	0.0458	0.0501	0.0143	0.0000	0.0000	0.0000	0.0000	0.6386	1.4791	0.0000	1.2714	0.0000	0.0000	0.0000	0.0000	
08/14/2019 00:00	1085.2	0.0	1104.4	0.0		1369.3	0.6505	86.3234	9.2711	1.7560	0.1767	0.2633	0.0415	0.0454	0.0128	0.0000	0.0000	0.0000	0.0000	0.6472	1.4484	0.0000	1.2973	0.0000	0.0000	0.0000	0.0000	
08/15/2019 00:00	1085.0	0.0	1104.2	0.0		1369.0	0.6505	86.2327	9.3785	1.7737	0.1181	0.2663	0.0429	0.0468	0.0134	0.0000	0.0000	0.0000	0.0000	0.6420	1.4708	0.0000	1.2728	0.0000	0.0000	0.0000	0.0000	
08/16/2019 00:00	1088.7	0.0	1107.9	0.0		1371.7	0.6523	84.8054	10.4338	1.7818	0.1047	0.2645	0.0403	0.0441	0.0119	0.0000	0.0000	0.0000	0.0000	0.5536	1.5637	0.0000	1.0432	0.0000	0.0000	0.0000	0.0000	
08/17/2019 00:00	1099.3	0.0	1118.6	0.0		1375.3	0.6616	83.6269	11.3705	1.8813	0.1333	0.3117	0.0502	0.0547	0.0148	0.0000	0.0000	0.0000	0.0000	0.4893	1.7286	0.0000	1.1121	0.0000	0.0000	0.0000	0.0000	
08/18/2019 00:00	1095.7	0.0	1115.0	0.0		1374.5	0.6581	83.9143	11.2181	1.7931	0.1275	0.2836	0.0451	0.0493	0.0136	0.0000	0.0000	0.0000	0.0000	0.4991	1.6659	0.0000	1.0604	0.0000	0.0000	0.0000	0.0000	
08/19/2019 00:00	1096.8	0.0	1116.2	0.0		1375.1	0.6589	83.8990	11.2198	1.8262	0.1327	0.2873	0.0466	0.0510	0.0144	0.0000	0.0000	0.0000	0.0000	0.5195	1.6695	0.0000	1.0338	0.0000	0.0000	0.0000	0.0000	
08/20/2019 00:00	1094.7	0.0	1114.0	0.0		1373.1	0.6582	84.2690	10.8100	1.8413	0.1313	0.3066	0.0498	0.0552	0.0157	0.0000	0.0000	0.0000	0.0000	0.5480	1.6778	0.0000	1.0853	0.0000	0.0000	0.0000	0.0000	
08/21/2019 00:00	1091.5	0.0	1110.7	0.0		1371.4	0.6559	84.0595	10.9726	1.7440	0.1264	0.2788	0.0454	0.0504	0.0142	0.0000	0.0000	0.0000	0.0000	0.5186	1.7060	0.0000	1.0085	0.0000	0.0000	0.0000	0.0000	
08/22/2019 00:00	1087.6	0.0	1106.7	0.0		1367.7	0.6548	84.5509	10.7885	1.6125	0.0841	0.2619	0.0421	0.0458	0.0125	0.0000	0.0000	0.0000	0.0000	0.5581	1.7593	0.0000	1.0637	0.0000	0.0000	0.0000	0.0000	
08/23/2019 00:00	1098.5	0.0	1117.8	0.0		1374.5	0.6614	83.5804	11.2276	1.9054	0.1408	0.3372	0.0553	0.0607	0.0169	0.0000	0.0000	0.0000	0.0000	0.5212	1.7701	0.0000	0.9906	0.0000	0.0000	0.0000	0.0000	
08/24/2019 00:00	1097.9	0.0	1117.3	0.0		1374.1	0.6612	83.7678	11.0146	1.9667	0.1402	0.3348	0.0548	0.0592	0.0159	0.0000	0.0000	0.0000	0.0000	0.5211	1.7482	0.0000	1.0697	0.0000	0.0000	0.0000	0.0000	
08/25/2019 00:00	1091.8	0.0	1111.1	0.0		1369.4	0.6583	84.2572	10.6967	1.8356	0.1068	0.3110	0.0517	0.0556	0.0151	0.0000	0.0000	0.0000	0.0000	0.5981	1.7130	0.0000	1.2152	0.0000	0.0000	0.0000	0.0000	
08/26/2019 00:00	1093.2	0.0	1112.5	0.0		1371.7	0.6577	84.5914	10.6372	1.8512	0.1445	0.2657	0.0410	0.0438	0.0115	0.0000	0.0000	0.0000	0.0000	0.5957	1.6843	0.0000	1.0840	0.0000	0.0000	0.0000	0.0000	
08/27/2019 00:00	1094.9	0.0	1114.2	0.0		1372.5	0.6590	84.2786	10.7180	1.7895	0.2990	0.2649	0.0407	0.0438	0.0112	0.0000	0.0000	0.0000	0.0000	0.5640	1.7188	0.0000	1.0636	0.0000	0.0000	0.0000	0.0000	
08/28/2019 00:00	1102.0	0.0	1121.5	0.0		1374.9	0.6653	83.9291	11.1274	1.9695	0.1471	0.3373	0.0553	0.0607	0.0160	0.0000	0.0000	0.0000	0.0000	0.5523	1.7876	0.0000	1.2014	0.0000	0.0000	0.0000	0.0000	
08/29/2019 00:00	1101.9	0.0	1121.3	0.0		1375.3	0.6648	83.9502	11.1561	1.8964	0.1715	0.3392	0.0566	0.0621	0.0168	0.0000	0.0000	0.0000	0.0000	0.5458	1.7868	0.0000	1.1497	0.0000	0.0000	0.0000	0.0000	
08/30/2019 00:00	1108.5	0.0	1128.0	0.0		1380.3	0.6678	83.7753	11.0189	2.0367	0.4160	0.3360	0.0518	0.0564	0.0144	0.0000	0.0000	0.0000	0.0000	0.5293	1.7493	0.0000	1.0698	0.0000	0.0000	0.0000	0.0000	
08/31/2019 00:00	1098.7	0.0	1118.1	0.0		1373.8	0.6624	83.9905	11.0341	1.9279	0.1411	0.3171	0.0519	0.0560	0.0152	0.0000	0.0000	0.0000	0.0000	0.5514	1.7732	0.0000	1.1019	0.0000	0.0000	0.0000	0.0000	
<b>Flow Weighted Average:</b>	1092.0	0.0	1111.3	0.0			0.6561	84.9569	10.2848	1.8140	0.1687	0.2923	0.0471	0.0512	0.0141	0.0000	0.0000	0.0000	0.0000	0.5834	1.6053	0.0000	1.1669	0.0000	0.0000	0.0000	0.0000	0.0000