

Table 3-1: Sample of Historical Heat Chemistry from 2016

analysis_date	analysis_time	heat_no	c_pct	mn_pct	p_pct	s_pct	si_pct	cu_pct	cr_pct	ni_pct	mo_pct	v_pct	sn_pct	pb_pct	nb_pct	Total Scrap Weight (lbs)	Total SW (ton)
1/4/16	11:23	41600500	0.027	0.16	0.0112	0.0205	0.021	0.077	0.055	0.037	0.017	0.002	0.006	0.0001	0.002	360887.54	180.44377
1/4/16	11:39	21600490	0.027	0.136	0.008	0.0179	0.023	0.085	0.046	0.042	0.018	0.002	0.0053	0.0002	0.002	356873.11	178.436555
1/4/16	12:20	31600480	0.024	0.161	0.0102	0.0187	0.016	0.071	0.044	0.033	0.014	0.001	0.0052	0	0.001	336818.11	168.409055
1/4/16	13:07	11600490	0.017	0.14	0.0076	0.0255	0.01	0.076	0.045	0.035	0.015	0.001	0.0051	0	0.002	355364.14	177.68207
1/4/16	13:10	21600500	0.026	0.138	0.0069	0.0268	0.02	0.08	0.047	0.036	0.016	0.001	0.0052	0	0	359922.18	179.96109
1/4/16	13:33	41600510	0.018	0.139	0.009	0.0254	0.01	0.073	0.034	0.031	0.015	0.001	0.0054	0	0.001	355126.14	177.56307
1/4/16	13:52	31600490	0.025	0.152	0.0095	0.0184	0.015	0.072	0.044	0.037	0.015	0.002	0.0053	0.0002	0.002	338070.18	169.03509
1/4/16	14:04	11600500	0.022	0.155	0.0086	0.0267	0.012	0.07	0.049	0.034	0.012	0.002	0.0047	0.0001	0.002	355220	177.61
1/4/16	15:00	41600520	0.021	0.157	0.0114	0.0202	0.014	0.07	0.041	0.031	0.014	0.001	0.0054	0	0.001	361034.49	180.517245
1/4/16	15:24	11600510	0.024	0.146	0.0065	0.0253	0.016	0.076	0.039	0.032	0.012	0.002	0.0055	0	0.002	358129.57	179.064785
1/4/16	16:38	31600500	0.027	0.174	0.0094	0.028	0.012	0.071	0.044	0.032	0.014	0.001	0.0054	0	0.001	340870.57	170.435285
1/4/16	17:52	21600520	0.029	0.208	0.0119	0.0226	0.027	0.108	0.084	0.042	0.018	0.002	0.0101	0.0001	0.002	352455.51	176.227755
1/4/16	18:26	11600520	0.029	0.167	0.0072	0.0275	0.007	0.08	0.041	0.039	0.013	0.001	0.007	0	0.001	360944.98	180.47249
1/4/16	18:53	31600510	0.023	0.123	0.0101	0.0248	0.011	0.074	0.042	0.034	0.014	0.001	0.0056	0	0.002	351398.4	175.6992
1/4/16	19:09	21600530	0.029	0.185	0.0083	0.0305	0.015	0.095	0.055	0.045	0.016	0.002	0.0085	0	0.002	359874.98	179.93749
1/4/16	19:32	41600540	0.019	0.162	0.0086	0.0264	0.014	0.084	0.035	0.037	0.015	0.001	0.0079	0	0.001	364013.58	182.00679
1/4/16	19:59	11600530	0.03	0.153	0.0074	0.0181	0.026	0.09	0.04	0.046	0.019	0.002	0.0079	0.0001	0.002	363924.58	181.96229
1/4/16	20:24	31600520	0.025	0.153	0.0098	0.0306	0.015	0.092	0.047	0.052	0.016	0.002	0.0092	0.0002	0.002	353405.52	176.70276
1/4/16	20:48	21600540	0.033	0.193	0.0084	0.0265	0.021	0.107	0.053	0.048	0.015	0.001	0.0148	0	0.001	364980.52	182.49026
1/4/16	21:05	41600550	0.034	0.161	0.01	0.0229	0.021	0.102	0.047	0.058	0.015	0.002	0.0102	0.0005	0.003	364461.4	182.2307
1/4/16	21:29	11600540	0.025	0.141	0.0068	0.0301	0.015	0.089	0.037	0.052	0.017	0.001	0.0068	0.0001	0.002	362310.4	181.1552
1/4/16	21:51	31600530	0.029	0.162	0.0113	0.0296	0.014	0.1	0.06	0.053	0.016	0	0.0088	0	0	365312.64	182.65632

Table 3–3: Sample of Ferrous Scrap Tracking Data

PoNo	TareDate	TareTime	SupplierAlpha	VehicleNo	PileNo	Unload Gross	Unload Tare	Net Wt	Net Wt (ton)	GT	MaterialDesc	Gross Date	Gross Time
BI11152	1/4/16	9:54:00	OMNI SOUR	BANDK61	BAY	78,920	32,800	46,120	23	20.58	#1 DEALER BUNDLES	1/4/16	9:33:00
BI11135	1/4/16	9:55:00	OMNI SOUR	STONE21618	BAY	81,060	39,920	41,140	21	18.36	#1 BUSHELING	1/4/16	9:34:00
BI11122	1/4/16	9:57:00	OMNI SOUR	OMNI 6483	BAY	51,240	40,740	10,500	5	4.68	#1 BUSHELING	1/4/16	9:40:00
BI11142	1/4/16	9:58:00	OMNI SOUR	CREEK02	BAY	79,520	31,160	48,360	24	21.58	#1 BUSHELING	1/4/16	9:41:00
BI11142	1/4/16	9:59:00	OMNI SOUR	STAH 12	BAY	78,560	36,060	42,500	21	18.97	#1 BUSHELING	1/4/16	9:41:00
BI11108-01	1/4/16	10:05:00	MIDWEST SC	MIDWE51	BAY	35,660	31,740	3,920	2	1.75	5' PLATE & STRUCTURAL	1/4/16	9:52:00
BI11126	1/4/16	10:06:00	OMNI SOUR	PIPER10	BAY	73,880	43,980	29,900	15	13.34	#1 BUSHELING	1/4/16	9:53:00
BI11102-01	1/4/16	10:08:00	GLENHUNTER	HUNT 36	BAY	77,140	32,440	44,700	22	19.95	BLENDED BRIQUETTES	1/4/16	9:52:00
BI11102-01	1/4/16	10:30:00	GLENHUNTER	HUNT 826	BAY	70,560	26,000	44,560	22	19.89	BLENDED BRIQUETTES	1/4/16	10:18:00
CMC-0116	1/4/16	10:33:00	HOME SC BI	SERV 3488	BAY	88,120	39,680	48,440	24	21.62	COLD MILL CROPS	1/4/16	10:16:00
BI11122	1/4/16	10:58:00	OMNI SOUR	OMNI 4526	BAY	75,620	40,500	35,120	18	15.67	#1 BUSHELING	1/4/16	10:45:00
BI10971	1/4/16	11:00:00	OMNI SOUR	SCOTT84	BAY	78,220	31,500	46,720	23	20.85	BLENDED BRIQUETTES	1/4/16	10:44:00

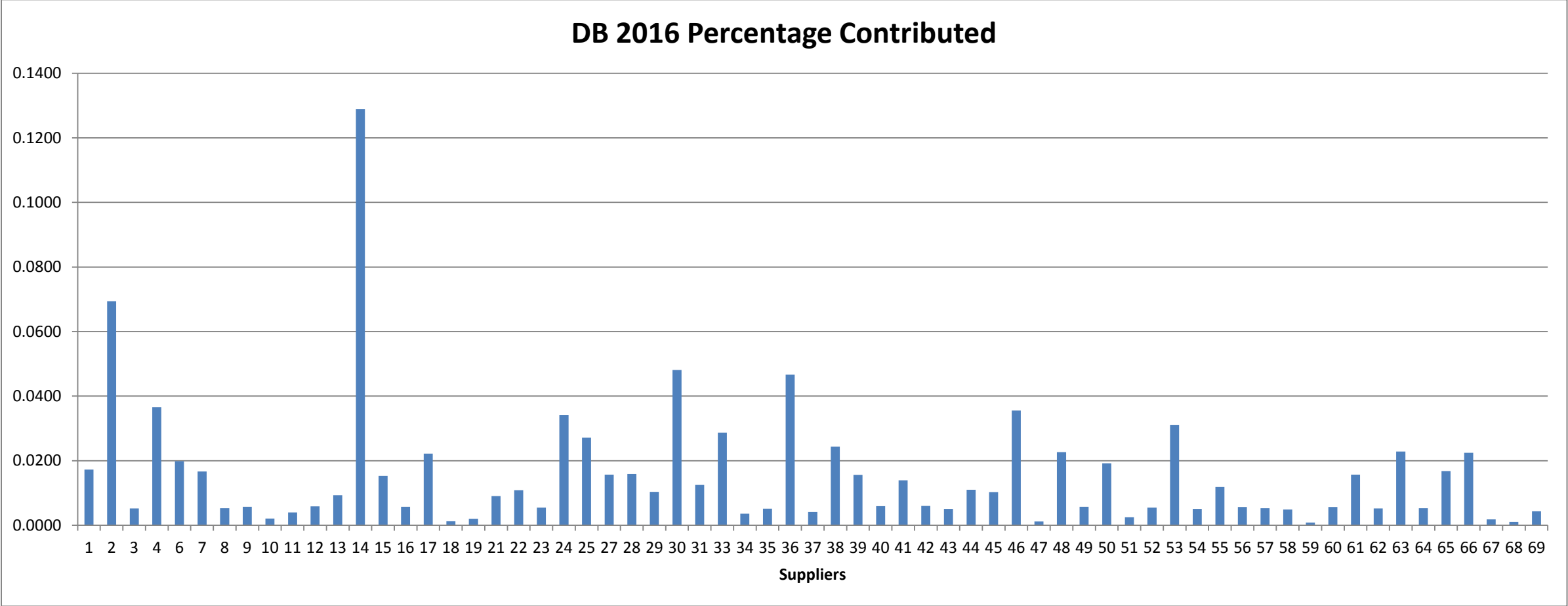
Table 4–2: Sample of Wasted Heats

analysis_date	analysis_time	heat_no	c_pct	mn_pct	p_pct	s_pct	si_pct	cu_pct	cr_pct	ni_pct	mo_pct	v_pct	sn_pct	pb_pct	nb_pct	Total Scrap Weight (lbs)	Total SW (ton)
1/14/16	7:28:00	21601811	0.049	0.832	0.0115	0	0.415	0.313	<b>0.576</b>	0.157	0.018	0.031	0.0055	0	0.002	349512.76	174.75638
3/7/16	19:38:00	11608410	0.037	0.239	0.0167	0.025	0.021	0.102	<b>0.348</b>	0.049	0.014	0.002	0.006	0	0.001	364000	182
3/8/16	23:09:00	11608580	0.024	0.149	0.0079	0.0183	0.017	0.08	0.033	0.03	0.014	0.001	<b>0.0408</b>	0	0.001	347500	173.75
3/14/16	20:46:00	31609350	0.019	0.189	0.01	0.0161	0.021	0.074	0.07	0.037	0.01	0.002	<b>0.0355</b>	0.0001	0.002	340000	170
3/22/16	9:34:00	11610630	0.036	0.106	0.0068	0.0388	0.001	<b>0.369</b>	0.1	0.04	0.011	0.001	0.0062	0.0007	0.002	354350.28	177.17514
4/11/16	13:28:00	11613560	0.03	0.11	0.006	0.026	0.01	0.076	0.028	0.037	0.012	0	<b>0.0277</b>	0	0.001	352330	176.165
5/15/16	2:24:00	21617870	0.019	0.096	0.0065	0.0337	0.014	0.103	0.04	0.039	0.015	0	<b>0.0375</b>	0	0	368670.17	184.335085
8/12/16	18:02:00	21630300	0.035	0.072	0.0113	0.0333	0.002	0.097	0.057	0.036	0.015	0	<b>0.0783</b>	0.001	0.002	346065.48	173.03274
8/24/16	2:57:00	21631990	0.026	0.202	0.0098	0.0313	0.011	<b>0.32</b>	0.086	0.041	0.018	0	0.0054	0	0.001	352819.21	176.409605
10/23/16	18:58:00	31639830	0.027	0.175	0.013	0.032	0.005	0.094	<b>0.327</b>	0.046	0.032	0	0.0055	0	0.002	376571.87	188.285935
11/5/16	21:31:00	11640700	0.025	0.238	0.0081	0.0373	0.013	0.095	0.064	0.041	0.014	0.002	<b>0.0286</b>	0	0.002	346611.91	173.305955
1/30/17	0:55:00	11703990	0.026	0.204	0.0094	0.0204	0.022	0.084	0.052	0.032	0.016	0.001	<b>0.0417</b>	0	0.002	343105.91	171.552955
2/3/17	1:52:00	21704590	0.033	0.175	0.0115	0.0158	0.021	0.085	<b>0.262</b>	0.054	0.081	0.001	0.0062	0	0.002	358222.95	179.111475
3/20/17	9:12:00	21711240	0.027	0.244	0.0127	0.0199	0.019	0.081	<b>0.3</b>	0.039	0.082	0.001	0.0054	0	0.002	353794.36	176.89718
4/3/17	3:25:00	21713220	0.03	0.159	0.007	0.0173	0.007	0.091	0.04	0.039	0.019	0.001	<b>0.0278</b>	0.0002	0.001	343188.4	171.5942
4/20/17	13:52:00	41715630	0.038	0.127	0.0114	0.0183	0.023	0.074	<b>0.244</b>	0.07	0.017	0	0.0057	0	0.001	361492.53	180.746265
4/20/17	17:21:00	21715860	0.032	0.132	0.0065	0.0318	0.015	<b>0.4</b>	0.061	0.081	0.176	0.003	0.0119	0.0006	0.002	354960.01	177.480005
4/26/17	17:44:00	21716700	0.046	0.249	0.0124	0.0221	0.017	0.085	<b>0.255</b>	0.037	0.024	0.001	0.0056	0	0.001	355000	177.5
5/17/17	21:25:00	21719060	0.032	0.229	0.0085	0.0164	0.028	0.078	<b>0.229</b>	0.042	0.059	0.001	0.0061	0	0.001	366517.08	183.25854
5/30/17	15:00:00	21720950	0.017	0.14	0.0107	0.03	0.018	<b>0.351</b>	0.045	0.06	0.15	0.001	0.0095	0	0.002	355000	177.5
5/30/17	17:06:00	21720960	0.042	0.047	0.0048	0.0429	0.015	<b>0.443</b>	0.037	0.07	0.193	0	0.0084	0	0	355000	177.5
5/30/17	20:26:00	31720530	0.041	0.102	0.0146	0.0292	0.001	0.105	<b>0.228</b>	0.037	0.033	0	0.0063	0	0.001	362004	181.002

Table 4-3: Sample of Downgraded Heats

analysis_date	analysis_time	heat_no	c_pct	mn_pct	p_pct	s_pct	si_pct	cu_pct	cr_pct	ni_pct	mo_pct	v_pct	sn_pct	pb_pct	nb_pct	Total Scrap Weight (lbs)	Total SW (ton)
1/4/16	17:52:00	21600520	0.029	0.208	0.0119	0.0226	0.027	0.108	0.084	0.042	0.018	0.002	<b>0.0101</b>	0.0001	0.002	352455.51	176.227755
1/4/16	20:48:00	21600540	0.033	0.193	0.0084	0.0265	0.021	0.107	0.053	0.048	0.015	0.001	<b>0.0148</b>	0	0.001	364980.52	182.49026
1/4/16	21:05:00	41600550	0.034	0.161	0.01	0.0229	0.021	0.102	0.047	0.058	0.015	0.002	<b>0.0102</b>	0.0005	0.003	364461.4	182.2307
1/4/16	23:19:00	11600550	0.022	0.101	0.0089	0.0134	0.015	0.1	0.035	0.058	0.019	0.001	<b>0.0103</b>	0	0.001	357326	178.663
1/5/16	15:25:00	21600660	0.031	0.124	0.0078	0.0314	0.016	0.085	<b>0.124</b>	0.061	0.014	0.001	0.0088	0	0.002	350774.29	175.387145
1/5/16	16:06:00	11600660	0.03	0.149	0.0077	0.0291	0.013	0.09	<b>0.153</b>	0.059	0.015	0.001	0.0098	0	0.002	356426	178.213
1/6/16	4:10:00	11600730	0.033	0.1	0.0061	0.0214	0.023	0.075	0.048	0.034	0.012	0.001	<b>0.0106</b>	0	0.001	352737.32	176.36866
1/6/16	6:56:00	21600750	0.019	0.087	0.0083	0.0291	0.01	0.091	0.04	0.037	0.014	0.001	<b>0.0102</b>	0.0001	0.002	319703	159.8515
1/6/16	21:30:00	21600770	0.03	0.162	0.0058	0.0192	0.021	0.101	0.03	0.047	0.014	0.002	<b>0.0105</b>	0.0007	0.001	343075	171.5375
1/7/16	2:20:00	11600800	0.026	0.104	0.0062	0.0208	0.024	0.103	0.032	0.047	0.018	0.001	<b>0.0126</b>	0	0	342829	171.4145
1/7/16	4:41:00	21600820	0.028	0.077	0.005	0.0229	0.021	0.099	0.022	0.043	0.012	0.002	<b>0.0113</b>	0.0003	0.001	359320	179.66
1/7/16	5:31:00	11600820	0.02	0.086	0.0061	0.0304	0.013	0.095	0.029	0.041	0.015	0.001	<b>0.0104</b>	0	0	359436.79	179.718395
1/7/16	6:51:00	11600830	0.027	0.132	0.007	0.0296	0.014	<b>0.116</b>	0.032	0.051	0.015	0.002	<b>0.0103</b>	0.0007	0.002	349055	174.5275
1/7/16	8:53:00	31600660	0.028	0.17	0.009	0.0331	0.021	<b>0.115</b>	0.052	0.041	0.014	0.001	0.0068	0	0	354954.8	177.4774
1/7/16	9:55:00	11600850	0.024	0.132	0.006	0.0348	0.013	0.114	0.034	0.046	0.014	0.001	<b>0.0135</b>	0	0	348467.8	174.2339
1/7/16	11:04:00	11600860	0.026	0.162	0.0075	0.0278	0.023	0.093	0.04	0.037	0.011	0.001	<b>0.0109</b>	0	0	354779.55	177.389775
1/8/16	8:52:00	21600990	0.023	0.079	0.006	0.0315	0.015	0.079	0.027	0.031	0.013	0	<b>0.0109</b>	0	0	360985.82	180.49291
1/8/16	13:30:00	41601040	0.02	0.103	0.0066	0.0359	0.009	0.078	0.031	0.03	0.012	0.001	0.0113	0.0001	0.001	368077.37	184.038685
1/8/16	14:18:00	31600850	0.026	0.108	0.0079	0.0264	0.013	<b>0.161</b>	0.038	0.032	0.011	0.001	0.0071	0.0003	0.002	371692.4	185.8462
1/9/16	0:58:00	11601090	0.033	0.162	0.0076	0.0212	0.025	<b>0.132</b>	0.039	0.039	0.013	0.002	0.0055	0.0001	0.001	355000	177.5
1/9/16	22:12:00	31601040	0.025	0.179	0.0094	0.0267	0.019	0.097	0.039	0.036	0.015	0.001	<b>0.0103</b>	0	0.001	364115.32	182.05766
1/9/16	22:35:00	21601200	0.029	0.183	0.0105	0.0258	0.019	<b>0.119</b>	0.054	0.041	0.015	0.002	0.0064	0.0002	0.001	358284.4	179.1422

Figure 4-4: Weight Percentages of Ferrous Scrap Contributed by Suppliers to Downgraded Heats in 2016

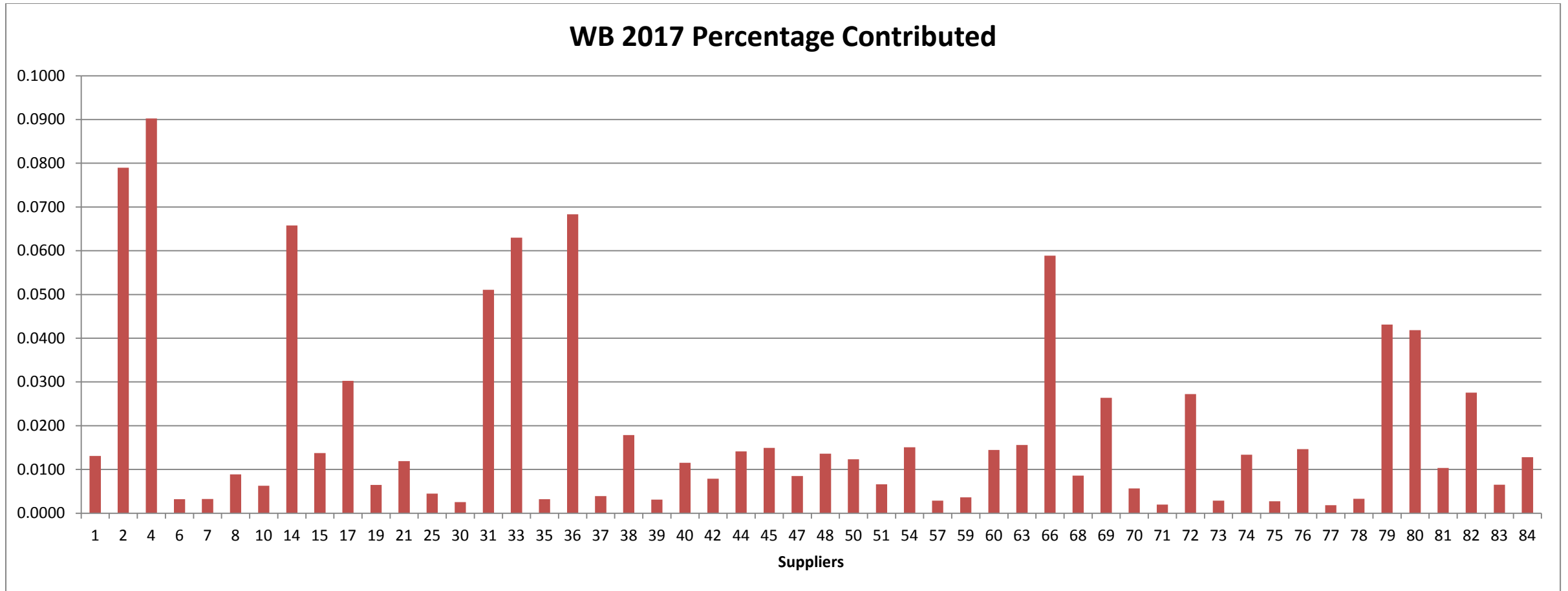


**Appendix C – Wasted Heats**

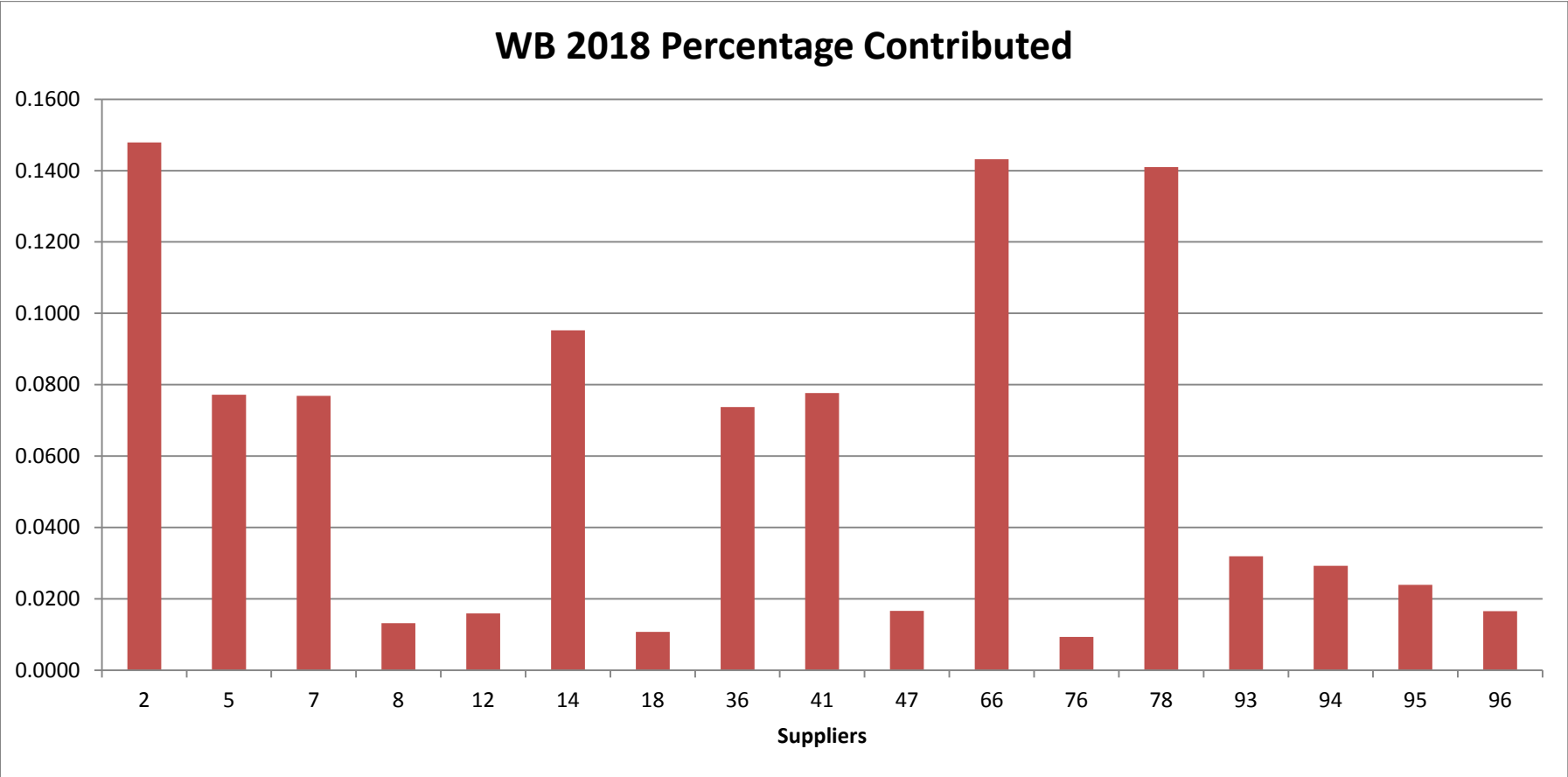
analysis_date	analysis_time	heat_no	c_pct	mn_pct	p_pct	s_pct	si_pct	cu_pct	cr_pct	ni_pct	mo_pct	v_pct	sn_pct	pb_pct	nb_pct	Total Scrap Weight (lbs)	Total SW (ton)
1/14/16	7:28:00	21601811	0.049	0.832	0.0115	0	0.415	0.313	<b>0.576</b>	0.157	0.018	0.031	0.0055	0	0.002	349512.76	174.75638
3/7/16	19:38:00	11608410	0.037	0.239	0.0167	0.025	0.021	0.102	<b>0.348</b>	0.049	0.014	0.002	0.006	0	0.001	364000	182
3/8/16	23:09:00	11608580	0.024	0.149	0.0079	0.0183	0.017	0.08	0.033	0.03	0.014	0.001	<b>0.0408</b>	0	0.001	347500	173.75
3/14/16	20:46:00	31609350	0.019	0.189	0.01	0.0161	0.021	0.074	0.07	0.037	0.01	0.002	<b>0.0355</b>	0.0001	0.002	340000	170
3/22/16	9:34:00	11610630	0.036	0.106	0.0068	0.0388	0.001	<b>0.369</b>	0.1	0.04	0.011	0.001	0.0062	0.0007	0.002	354350.28	177.17514
4/11/16	13:28:00	11613560	0.03	0.11	0.006	0.026	0.01	0.076	0.028	0.037	0.012	0	<b>0.0277</b>	0	0.001	352330	176.165
5/15/16	2:24:00	21617870	0.019	0.096	0.0065	0.0337	0.014	0.103	0.04	0.039	0.015	0	<b>0.0375</b>	0	0	368670.17	184.335085
8/12/16	18:02:00	21630300	0.035	0.072	0.0113	0.0333	0.002	0.097	0.057	0.036	0.015	0	<b>0.0783</b>	0.001	0.002	346065.48	173.03274
8/24/16	2:57:00	21631990	0.026	0.202	0.0098	0.0313	0.011	<b>0.32</b>	0.086	0.041	0.018	0	0.0054	0	0.001	352819.21	176.409605
10/23/16	18:58:00	31639830	0.027	0.175	0.013	0.032	0.005	0.094	<b>0.327</b>	0.046	0.032	0	0.0055	0	0.002	376571.87	188.285935
11/5/16	21:31:00	11640700	0.025	0.238	0.0081	0.0373	0.013	0.095	0.064	0.041	0.014	0.002	<b>0.0286</b>	0	0.002	346611.91	173.305955
1/30/17	0:55:00	11703990	0.026	0.204	0.0094	0.0204	0.022	0.084	0.052	0.032	0.016	0.001	<b>0.0417</b>	0	0.002	343105.91	171.552955
2/3/17	1:52:00	21704590	0.033	0.175	0.0115	0.0158	0.021	0.085	<b>0.262</b>	0.054	0.081	0.001	0.0062	0	0.002	358222.95	179.111475
3/20/17	9:12:00	21711240	0.027	0.244	0.0127	0.0199	0.019	0.081	<b>0.3</b>	0.039	0.082	0.001	0.0054	0	0.002	353794.36	176.89718
4/3/17	3:25:00	21713220	0.03	0.159	0.007	0.0173	0.007	0.091	0.04	0.039	0.019	0.001	<b>0.0278</b>	0.0002	0.001	343188.4	171.5942
4/20/17	13:52:00	41715630	0.038	0.127	0.0114	0.0183	0.023	0.074	<b>0.244</b>	0.07	0.017	0	0.0057	0	0.001	361492.53	180.746265
4/20/17	17:21:00	21715860	0.032	0.132	0.0065	0.0318	0.015	<b>0.4</b>	0.061	0.081	0.176	0.003	0.0119	0.0006	0.002	354960.01	177.480005
4/26/17	17:44:00	21716700	0.046	0.249	0.0124	0.0221	0.017	0.085	<b>0.255</b>	0.037	0.024	0.001	0.0056	0	0.001	355000	177.5
5/17/17	21:25:00	21719060	0.032	0.229	0.0085	0.0164	0.028	0.078	<b>0.229</b>	0.042	0.059	0.001	0.0061	0	0.001	366517.08	183.25854
5/30/17	15:00:00	21720950	0.017	0.14	0.0107	0.03	0.018	<b>0.351</b>	0.045	0.06	0.15	0.001	0.0095	0	0.002	355000	177.5
5/30/17	17:06:00	21720960	0.042	0.047	0.0048	0.0429	0.015	<b>0.443</b>	0.037	0.07	0.193	0	0.0084	0	0	355000	177.5
5/30/17	20:26:00	31720530	0.041	0.102	0.0146	0.0292	0.001	0.105	<b>0.228</b>	0.037	0.033	0	0.0063	0	0.001	362004	181.002
6/22/17	1:40:00	31723460	0.03	0.224	0.0196	0.0407	0.012	0.11	<b>0.271</b>	0.041	0.017	0.001	0.0052	0	0.003	372447	186.2235

7/11/17	10:22:00	31726200	0.02	0.097	0.0069	0.0235	0.011	0.083	0.045	0.037	0.023	0.001	<b>0.0279</b>	0.0003	0	353875.87	176.937935
8/23/17	23:05:00	31732330	0.029	0.171	0.0121	0.0193	0.008	<b>0.305</b>	0.072	0.037	0.015	0	0.0059	0.0022	0.001	352225.68	176.11284
8/24/17	2:46:00	41732640	0.028	0.166	0.0092	0.0173	0.005	0.102	0.063	0.042	0.026	0	<b>0.0285</b>	0	0.001	344254.71	172.127355
8/24/17	7:35:00	11732610	0.032	0.228	0.0183	0.0215	0.007	0.096	<b>0.38</b>	0.039	0.033	0	0.0059	0	0.001	372000	186
8/25/17	11:16:00	31732550	0.032	0.088	0.0111	0.0404	0.001	<b>0.353</b>	0.056	0.071	0.017	0.001	0.0108	0.0008	0.001	370000	185
8/25/17	12:28:00	41732850	0.026	0.128	0.0124	0.0342	0.008	<b>0.362</b>	0.058	0.068	0.018	0	0.0105	0	0.001	370000	185
8/25/17	13:07:00	31732560	0.029	0.092	0.0182	0.0423	0.002	<b>0.394</b>	0.093	0.081	0.021	0.001	0.0111	0.0009	0.001	370000	185
9/1/17	18:20:00	41733920	0.038	0.188	0.0112	0.0193	0.017	<b>0.374</b>	0.085	0.075	0.138	0.002	0.0093	0	0.002	354109.46	177.05473
9/20/17	21:20:00	31736530	0.038	0.098	0.0125	0.0355	0.001	<b>0.319</b>	0.095	0.069	0.018	0	0.0102	0.0006	0.001	369000	184.5
9/20/17	23:46:00	31736540	0.031	0.194	0.0125	0.0176	0.02	<b>0.316</b>	0.093	0.075	0.017	0.001	0.0105	0.0007	0.001	378000	189
9/21/17	1:21:00	31736550	0.029	0.155	0.0131	0.0314	0.016	<b>0.302</b>	0.088	0.068	0.016	0	0.0101	0	0	379000	189.5
9/26/17	2:15:00	11736840	0.035	0.216	0.0124	0.0241	0.023	0.108	<b>0.306</b>	0.044	0.054	0	0.0063	0	0.002	344899.71	172.449855
9/27/17	15:53:00	11737050	0.026	0.168	0.0081	0.0131	0.017	<b>0.428</b>	0.06	0.068	0.149	0.002	0.0112	0.0003	0.002	347444.57	173.722285
9/27/17	16:48:00	21737260	0.026	0.042	0.006	0.0178	0.001	<b>0.423</b>	0.028	0.067	0.141	0	0.0118	0	0.001	340852.1	170.42605
12/4/17	21:41:00	11745950	0.028	0.263	0.0131	0.0214	0.02	0.091	<b>0.243</b>	0.034	0.016	0	0.0056	0	0.001	356848.7	178.42435
2/2/18	7:16:00	31804640	0.034	0.185	0.0147	0.0165	0.017	0.225	0.071	0.059	0.017	0	<b>0.0285</b>	0.0002	0.001	351524.49	175.762245
2/20/18	18:21:00	41807410	0.037	0.174	0.0188	0.0168	0.022	0.093	<b>0.255</b>	0.041	0.056	0.001	0.0062	0.0001	0.001	350046.71	175.023355
3/8/18	2:13:00	21809020	0.026	0.182	0.0091	0.0194	0.023	0.1	<b>0.239</b>	0.043	0.056	0.001	0.0057	0	0.001	359566.05	179.783025
3/8/18	14:19:00	31809240	0.028	0.116	0.0183	0.0254	0.016	<b>0.309</b>	0.076	0.065	0.02	0.001	0.014	0.0012	0	354022	177.011
3/22/18	14:34:00	21811130	0.024	0.087	0.0068	0.0175	0.013	0.082	0.037	0.029	0.019	0	<b>0.0315</b>	0	0	355389.68	177.69484
4/24/18	21:25:00	21815980	0.032	0.161	0.0101	0.0225	0.02	0.08	<b>0.23</b>	0.04	0.016	0.001	0.0057	0	0.001	352823.32	176.41166
4/27/18	12:29:00	31816760	0.033	0.055	0.0121	0.0372	0.001	<b>0.296</b>	0.054	0.109	0.023	0	0.01	0.0006	0	352400	176.2

Appendix D – Weight Percentage Contribution per Supplier for Wasted Heats







**Appendix E – Weight Percentage Contribution per Supplier for Downgraded Heats**

