King County

Industrial Waste Monthly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

AKC-0003899

Company Name: ALASKAN COPPER WORKS 3200 6TH AVE. S. **Sample Site No.** A4010 **Permit/DA No.:** 7238-5

Please Specify Month & Year: **Month:** MARCH **2012**

This form is available at www.kingcounty.gov/industrialwaste.

All units are mg/l unless otherwise noted. Note: For cyanide, circle test performed - amenable or total ▼

Sample Date (circle)	Sample Type C (Composite) G (grab) BC (batch)	pH Min	pH Max	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Silver, Ag	Zinc, Zn	Cyanide (CN) Amenable (A) or Total (T)	NP Fats, Oils, and Grease (Average of 3 grabs)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
(1)	C	10.4	10.6		.42	1.04			.45		.06			1365	
2		10.2	10.4											1042	
3		—	—											—	
4		—	—											—	
5		10.0	10.0											1088	
6		9.9	10.1											1232	
7		9.9	10.0											966	
(8)	C	9.7	10.2		.32	.52			.32		.02			899	
9		10.0	10.6											2097	
10		—	—											—	
11		—	—											—	
12		10.1	10.2											1071	
13		10.0	10.7											1969	
14		10.4	10.6											1435	
(15)	C	10.0	10.2		.42	.86			.36		.03			1120	
16		10.0	10.5											1224	
17		—	—											—	
18		—	—											—	
19		10.1	10.2											925	
20		10.0	10.5											1330	
21		10.3	10.4											960	
(22)	C	10.3	10.6		.54	.78			.47		.05			774	
23		10.5	10.6											865	
24		—	—											—	
25		—	—											—	
26		10.1	10.7											763	
27		10.5	11.0											1358	
28		10.6	10.9											904	
(29)	C	10.6	11.4		.51	.79			.37		.04			722	
30		10.6	11.2											1492	
31		10.3	10.6											1491	

Monthly Min pH	9.7	& Date	3/8/12	Total Monthly Flow (gallons)	27092
Monthly Max pH	11.4	& Date	3/29/12	Maximum Daily Flow	2097 & Date 3/9/12

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent

Date 4/9/12

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: **Monthly report is due by the 15th of each month.**

King County

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Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

AKC-0003900

Company Name: ALASKAN COPPER WORKS E. MARGINAL WAY **Sample Site No.** A4009 **Permit/DA No.:** 7201-4

Please Specify Month & Year: **Month:** MARCH **2012**

This form is available at www.kingcounty.gov/industrialwaste.

All units are mg/l unless otherwise noted. Note: For cyanide, circle test performed - amenable or total ▼

Sample Date (circle)	Sample Type C (Composite) G (grab) BC (batch)	pH Min	pH Max	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Silver, Ag	Zinc, Zn	Cyanide (CN) Amenable (A) or Total (T)	NP Fats, Oils, and Grease (Average of 3 grabs)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1															
2															
3															
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31															

NOT IN USE THIS MONTH

Monthly Min pH		& Date		Total Monthly Flow (gallons)	
Monthly Max pH		& Date		Maximum Daily Flow	& Date

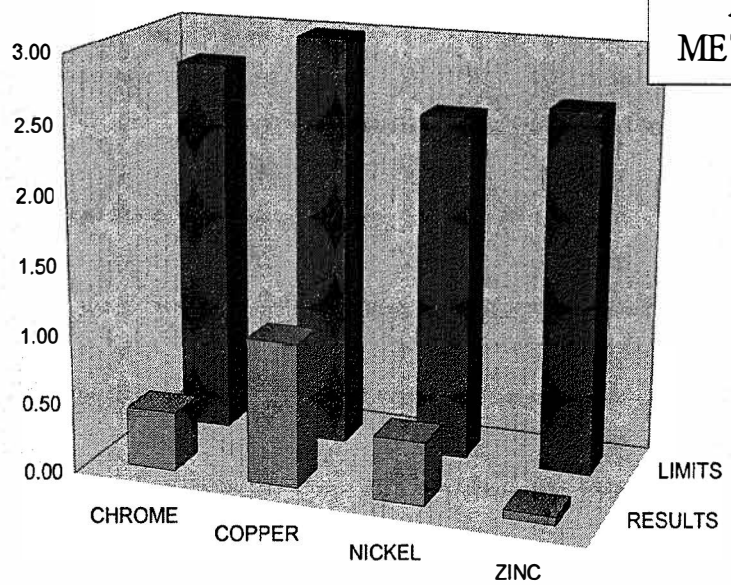
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

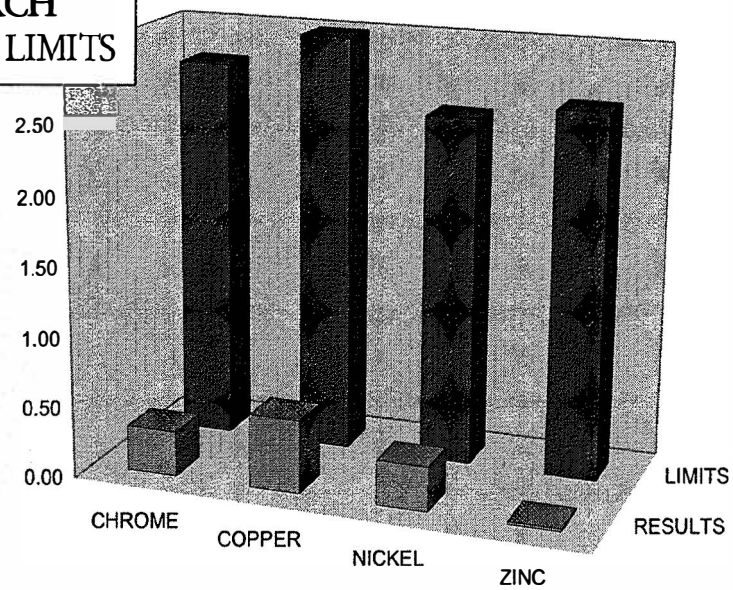
Signature of Principal Executive or Authorized Agent — Date 4/9/12

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th of each month.

MARCH
METRO LIMITS





ALASKAN COPPER WORKS 3200 FACILITY MARCH 1, 2012 COMPOSITE M07433	ALASKAN COPPER WORKS 3200 FACILITY MARCH 8, 2012 COMPOSITE M08451

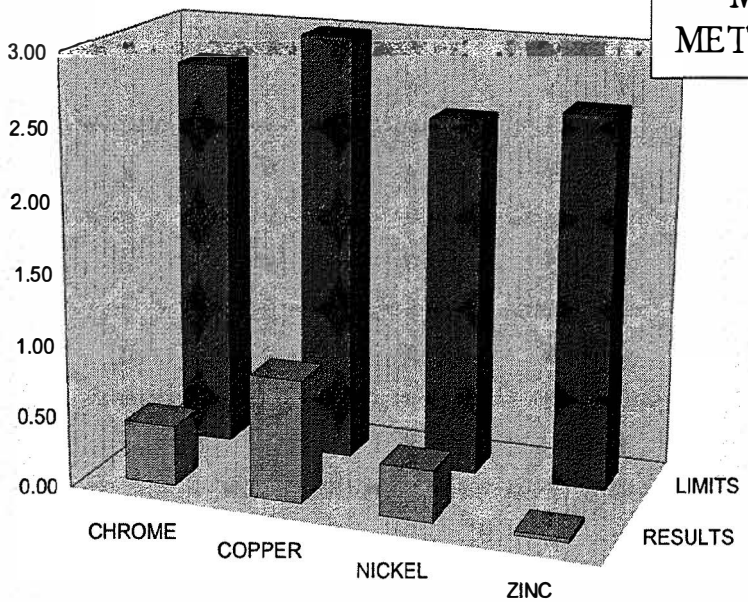
VISUAL REPRESENTATION OF THE LAB RESULTS

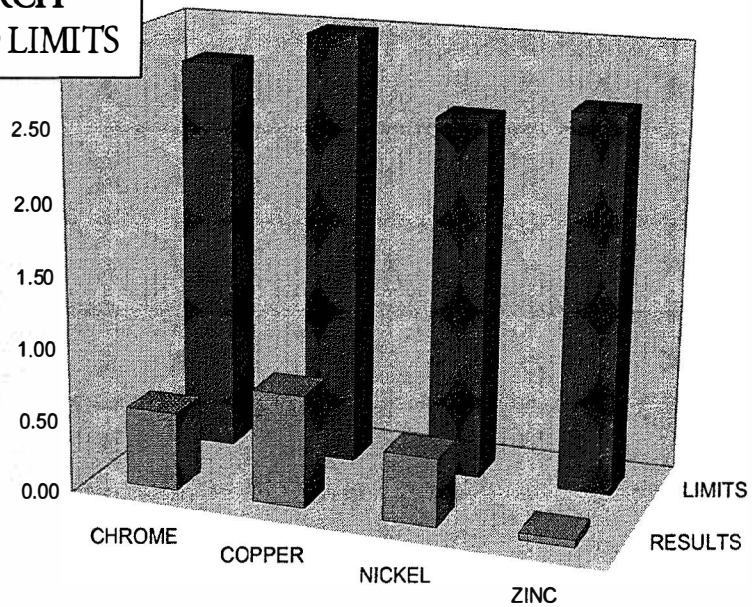
NOTE: ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.42	1.04	0.45	0.06
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.32	0.52	0.32	0.02
LIMITS	2.75	3.00	2.50	2.61

MARCH
METRO LIMITS





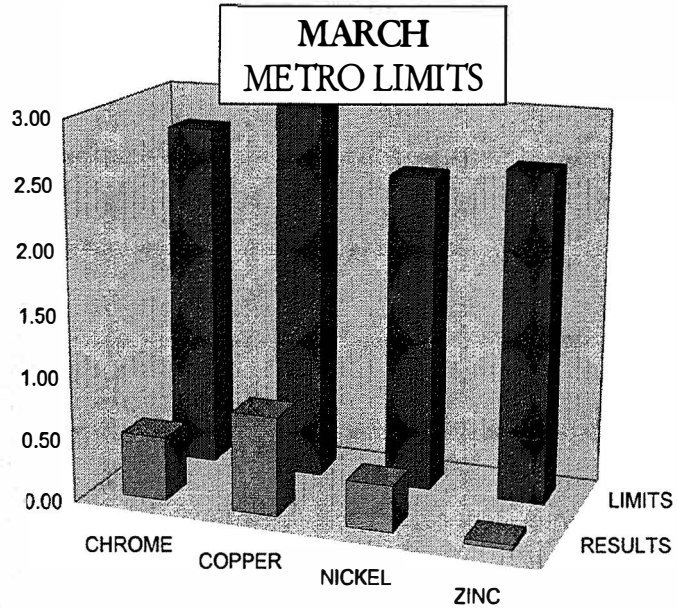
ALASKAN COPPER WORKS 3200 FACILITY MARCH 15, 2012 COMPOSITE M08485	ALASKAN COPPER WORKS 3200 FACILITY MARCH 22, 2012 COMPOSITE M08545

VISUAL REPRESENTATION OF THE LAB RESULTS

NOTE: ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.42	0.86	0.36	0.03
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.54	0.78	0.47	0.05
LIMITS	2.75	3.00	2.50	2.61



ALASKAN COPPER WORKS
3200 FACILITY
MARCH 29, 2012
COMPOSITE M08582

VISUAL REPRESENTATION OF THE LAB RESULTS

NOTE: ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.51	0.79	0.37	0.04
LIMITS	2.75	3.00	2.50	2.61

REF. DWG NO. 500-0007 REV. A 1594

DAILY LOG

DAY	DATE	TIME	CAUSTIC LEVEL	FLOC. LEVEL	pH READING PROCESS MONITOR	pH READING OUTPUT MONITOR	pH PAPER PROCESS MONITOR	pH PAPER OUTPUT MONITOR	FLOWMETER	CYCLES	TEMP F° LARGE TANK	TEMP F° SMALL TANK	TEMP F° OAKITE TANK	REVETMENT LARGE RINSE	REVETMENT LARGE ACID	REVETMENT SMALL TANKS	COMMENTS, PROBLEMS, & REMARKS (W/O#)
MONDAY	2/27	7 AM	10.3	15	10.42	10.43	–	–	1058	3	119	104	86				
		3 PM	10.3	13	11.20	10.62	–	–	772	4	128	120	120				
		11PM	10.3	10	10.54	10.67	–	–	1386	4	120	116	118				
TUESDAY	2/28	7 AM	10.3	10	10.71	10.56	–	–	1386	4	127	119	104				Forgot to Reset
		3 PM	10.1	8	9.94	10.57	–	–	2200	4	121	128	120				
		11PM	10.2	2	10.28	10.42	–	–	2740	4	118	117	120				
WEDNESDAY	2/29	7 AM	10.2	3	10.60	10.36	–	–	1354 / 2740	4	127	121	105				2740 − 1386 = 1354
		3 PM	10.2	1	9.78	10.39	–	–	433	Ø	125	125	121				
		11PM	10.2	15	10.79	10.68	–	–	1365	3	123	116	111				
THURSDAY	3/1	7 AM	10.0	15	10.77	10.54	–	–	1365	3	126	121	99				Forgot to Reset Slow
		3 PM	10.0	14	10.41	10.43	–	–	1862	4	126	119	120				
		11PM	10.0	11	9.69	10.60	–	–	2407	16	126	120	113				
FRIDAY	3/2	7 AM	10.0	9	8.40	10.44	–	–	~~2407~~ 1042	19	125	126	100				2407 − 1365 = 1042
		3 PM	9.9	8	10.52	10.25	–	–	684	4	127	126	119				
		11PM	9.9	6	9.82	10.35	–	–	1088	6	127	122	114				
SATURDAY																	
SUNDAY																	

\WOUT\500-0007, 03/04/99

AKC-0003904

REF. DWG NO. 500-0007 REV. A 1594

DAILY LOG

DAY	DATE	TIME	CAUSTIC LEVEL	FLOC. LEVEL	pH READING PROCESS MONITOR	pH READING OUTPUT MONITOR	pH PAPER PROCESS MONITOR	pH PAPER OUTPUT MONITOR	FLOWMETER	CYCLES	TEMP F° LARGE TANK	TEMP F° SMALL TANK	TEMP F° DAKITE TANK	REVETMENT LARGE RINSE	REVETMENT LARGE ACID	REVETMENT SMALL TANKS	COMMENTS,PROBLEMS,& REMARKS (W/O#)
MONDAY	3/5	7 AM	10.0	6	9.83	10.09	–	–	1088	6	123	128	96				
		3 PM	10.0	1	9.72	10.05	–	–	759	Ø	119	116	125				
		11PM	10.0	15	10.47	10.03	–	–	1232	4	119	117	118				
TUESDAY	3/6	7 AM	10.0	15	10.83	10.00	–	–	1232	4	127	121	104				
		3 PM	10.0	13	10.00	9.96	–	–	395	Ø	125	127	120				
		11PM	10.0	11	9.88	10.15	–	–	966	4	117	118	113				
WEDNESDAY	3/7	7 AM	9.8	11	9.82	10.04	–	–	966	4	124	121	100				
		3 PM	9.7	8	10.03	9.90	–	–	353	3	124	124	119				
		11PM	9.8	7	9.75	9.94	–	–	899	19	120	119	112				
THURSDAY	3/8	7 AM	9.8	7	9.62	9.79	–	–	899	20	126	123	100				
		3 PM	9.4	5	10.83	9.77	–	–	1247	4	121	124	123				
		11PM	9.3	1	10.42	10.22	–	–	2097	5	121	121	114				
FRIDAY	3/9	7 AM	9.3	1	10.40	10.04	–	–	~~2097~~	5	126	126	102				
		3 PM	9.3	15	11.63	10.31	–	–	656	1	119	120	120				
		11PM	9.1	15	10.00	10.63	–	–	1071	9	119	126	123				
SATURDAY																	
SUNDAY																	

..\WOUT\500-0007, 03/04/99

AKC-0003905

REF. DWG NO. 500-0007 REV. A 1594

DAILY LOG

DAY	DATE	TIME	CAUSTIC LEVEL	FLOC. LEVEL	pH READING PROCESS MONITOR	pH READING OUTPUT MONITOR	pH PAPER PROCESS MONITOR	pH PAPER OUTPUT MONITOR	FLOWMETER	CYCLES	TEMP F° LARGE TANK	TEMP F° SMALL TANK	TEMP F° OAKITE TANK	REVETMENT LARGE RINSE	REVETMENT LARGE ACID	REVETMENT SMALL TANKS	COMMENTS, PROBLEMS, & REMARKS (W/O#)
MONDAY	3/12	7 AM	9.1	14	9.90	10.25	–	–	1071	9	117	102	87				Sonset to Reset Slow Cycles
		3 PM	9.1	13	9.84	10.17	–	–	1619	1	128	117	120				
		11PM	9.1	10	9.86	10.20	–	–	1969	9	121	112	116				WORKED till 1:30AM O.T.!
TUESDAY	3/13	7 AM	9.1	10	10.29	10.16	–	–	1969	14	121	108	103				Early START
		3 PM	8.9	7.5	11.18	10.00	–	–	765	1	125	123	121				
		11PM	9.0	4	10.49	10.74	–	–	1435	1	120	116	123				
WEDNESDAY	3/14	7 AM	9.0	5	11.02	10.58	–	–	145	1	117	110	103				
		3 PM	8.9	3	9.55	10.64	–	–	477	Ø	122	128	126				
		11PM	8.9	1	9.66	10.48	–	–	1120	8	118	118	119				
THURSDAY	3/15	7 AM	8.9	1		10.27	–	–	1120	13	128	121	102				
		3 PM	8.9	14	9.87	10.07	–	–	510	2	119	119	124				
		11PM	8.9	10	10.62	10.23	–	–	1224	7	119	125	118				
FRIDAY	3/16	7 AM	8.9	10	10.60	10.08	–	–	1224	7	125	123	101				
		3 PM	9.0	10	9.69	10.28	–	–	456	2	119	127	125				
		11PM	9.0	6	10.25	10.50	–	–	925	4	125	121	118				
SATURDAY																	
SUNDAY																	

.\WOUT\500-0007, 03/04/99

AKC-0003906

REF. DWG NO. 500-0007 REV. A 1594

DAILY LOG

DAY	DATE	TIME	CAUSTIC LEVEL	FLOC. LEVEL	pH READING PROCESS MONITOR	pH READING OUTPUT MONITOR	pH PAPER PROCESS MONITOR	pH PAPER OUTPUT MONITOR	FLOWMETER	CYCLES	TEMP F° LARGE TANK	TEMP F° SMALL TANK	TEMP F° OAKITE TANK	REVETMENT LARGE RINSE	REVETMENT LARGE ACID	REVETMENT SMALL TANKS	COMMENTS, PROBLEMS, & REMARKS (W/O#)
MONDAY	3/19	7 AM	9.0	6	10.04	10.28	–	–	925	4	127	118	97				
		3 PM	9.0	1	10.59	10.17	–	–	625	3	122	128	122				
		11PM	8.7	13	10.19	10.25	–	–	1330	16	118	125	122				
TUESDAY	3/20	7 AM	8.5	13		10.09	–	–	1330	18	127	127	105				
		3 PM	8.5	12	10.23	10.15	–	–	360	3	124	123	124				
		11PM	8.5	10	10.59	10.56	–	–	960	5	122	128	117				
WEDNESDAY	3/21	7 AM	8.5	10	10.56	10.42	–	–	960	5	128	122	100				Forgot to Reset flow & Cycles
		3 PM	8.5	10	10.38	10.34	–	–	1149	5	127	118	126				
		11PM	7.2	8	10.01	10.45	–	–	1734	58	125	127	119				
THURSDAY	3/22	7 AM	7.0	8	9.96	10.34	–	–	~~1739~~ 774	58	128	111	102				1734 960 774
		3 PM	6.9	6	9.94	10.38	–	–	296	0	126	128	125				
		11PM	7.0	4	10.65	10.68	–	–	865	0	119	118	117				
FRIDAY	3/23	7 AM	7.0	4	10.41	10.60	–	–	865	0	126	121	99				
		3 PM	7.0	1	9.88	10.57	–	–	342	Ø	125	126	124				
		11PM	7.0	14	10.45	10.57	–	–	763	2	123	124	118				
SATURDAY																	
SUNDAY																	

AKC-0003907

..\WOUT\500-0007, 03/04/99

REF. DWG NO. 500-0007 REV. A 1594

DAILY LOG

DAY	DATE	TIME	CAUSTIC LEVEL	FLOC. LEVEL	pH READING PROCESS MONITOR	pH READING OUTPUT MONITOR	pH PAPER PROCESS MONITOR	pH PAPER OUTPUT MONITOR	FLOWMETER	CYCLES	TEMP F° LARGE TANK	TEMP F° SMALL TANK	TEMP F° DAKITE TANK	REVETMENT LARGE RINSE	REVETMENT LARGE ACID	REVETMENT SMALL TANKS	COMMENTS,PROBLEMS,& REMARKS (W/O#)
MONDAY	3/26	7 AM	7.0	14	10.39	10.19	–	–	763	2	116	117	101				
		3 PM	6.9	11	11.60	10.14	–	–	594	1	122	123	120				
		11PM	6.9	3	10.51	10.70	–	–	1358	1	119	126	124				
TUESDAY	3/27	7 AM	6.9	4	10.85	10.59	–	–	1358	1	125	122	108				
		3 PM	6.7	Ø	11.51	10.79	–	–	340	Ø	120	128	128				
		11PM	6.7	14	11.28	11.04	–	–	904	6	126	127	128				
WEDNESDAY	3/28	7 AM	6.7	14	11.30	10.92	–	–	904	6	128	124	107				
		3 PM	6.8	13	9.97	10.76	–	–	525	Ø	119	128	125				
		11PM	6.8	9	10.71	10.68	–	–	722	1	127	126	122				
THURSDAY	3/29	7 AM	6.8	9	10.62	10.61	–	–	722	1	127	126	114				Forgot to Reset Flow & Cycles
		3 PM	6.8	2	11.61	11.03	–	–	1650	1	125	121	127				
		11PM	6.8	Ø	9.80	11.50	–	–	2214	4	118	125	119				
FRIDAY	3/30	7 AM	6.8	1	10.22	11.23	–	–	1492/2214	7	124	125	113				Forgot to reset flow & Cycles
		3 PM	6.5	15	11.06	10.68	–	–	2956	1	129	128	126				
		11PM	6.5	10	11.00	10.79	–	–	3703	Ø	124	126	120				
SATURDAY	3/31		6.5	9	10.39	10.65	–	–	1491/3705	8	126	119	98				
SUNDAY																	

3705
2214
1491

2214
722
492

AKC-0003908

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