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	Aug 3	7 AM	2.2	21	9.59	9.66	-	-	634	51	95	89	131				16
		3 PM	2.2	17	9.66	9.63	-	-	500	17	114	120	115				
		11PM	2.2	14	9.73	9.59	-	-	826	58	127	119	103				
TUESDAY	Aug 4	7 AM	2.2	14	9.82	9.58	-	-	826	60	118	103	143				16
		3 PM	2.2	11	9.75	9.56	-	-	655	32	126	122	119				
		11PM	2.2	10	9.80	9.56	-	-	655	61	119	120	109				
WEDNESDAY	Aug 5	7 AM	2.2	10	9.67	9.56	-	-	1655	63	113	106	144				16
		3 PM	2.2	8	9.68	9.56	-	-	598	22	106	99	122				Steam Generator was off
		11PM	1.2	8	10.03	9.57	-	-	1381	67	118	116	110				
THURSDAY	Aug 6	7 AM	1.2	8	10.58	9.55	-	-	1381	68	111	102	142				16 Cycles ; Slow not Reset
		3 PM	5.0	7	9.71	9.56	-	-	1563	82	126	121	118				
		11PM	5.0	4	10.08	9.55	-	-	2749	106	121	126	107				16
FRIDAY	Aug 7	7 AM	5.0	1	9.86	9.53	-	-	2749	107	114	111	140				16
		3 PM	4.9	9	9.59	9.55	-	-	1103	30	127	122	118				
		11PM	4.5	7	10.21	9.53	-	-	1909	48	121	122	166				
SATURDAY																	
SUNDAY																	

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

AKC-0005360

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	Aug 10	7 AM	4.3	7	11.95	9.48	-	-	1909	54	93	87	132				16
		3 PM	4.3	20	11.26	9.41	-	-	172	3	115	113	117				
		11PM	4.3	15	9.57	10.14	-	-	1032	31	126	124	105				Flowing
TUESDAY	Aug 11	7 AM	4.1	15	10.03	9.93	-	-	1093	36	118	108	140				16
		3 PM	3.8	12	9.82	9.95	-	-	802	22	124	125	120				
		11PM	3.8	8	9.54	9.85	-	-	1241	36	125	122	106				
WEDNESDAY	Aug 12	7 AM	3.8	7	9.6	9.81	-	-	1247	40	117	108	139				64
		3 PM	3.3	21	9.92	9.68	-	-	713	14	125	118	113				
		11PM	2.8	19	11.66	9.71	-	-	1436	52	120	121	102				16
THURSDAY	Aug 13	7 AM	2.8	19	10.73	9.74	-	-	1436	52	114	102	135				64
		3 PM	2.5	17	10.07	9.92	-	-	672	35	127	117	118				
		11PM	2.3	13	9.75	9.92	-	-	1592	90	120	120	105				16
FRIDAY	Aug 14	7 AM	2.0	13	9.52	9.88	-	-	1592	92	113	108	135				16
		3 PM	1.6	10	9.82	9.87			1131	24	127	124	116				
		11PM	1.2	8	9.82	9.88			1372	64	119	127	104				
SATURDAY																	
SUNDAY																	

AKC-0005361

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	Aug 17	7 AM	1.2	8	10.5	19.99!			1372	68	88	84	132				16
		3 PM	0.7	18	10.26	9.78	-	-	868	18	114	117	117				
		11PM	0.4	15	9.80	9.79	-	-	1135	33	126	118	105				FLOWING AT SHUTDOWN
TUESDAY	Aug 18	7 AM	0.2	15	11.93	9.83	-	-	1265	39	119	105	139				64
		3 PM	30.2	10	9.88	10.12	-	-	909	7	125	123	120				
		11PM	30.2	10	10.20	10.08	-	-	909	7	120	119	107				16
WEDNESDAY	Aug 19	7 AM	30.3	10	9.83	10.04	-	-	909	7	114	107	140				16
		3 PM	30.2	23	9.77	10.12	-	-	720	13	127	123	120				
		11PM	29.8	22	9.90	10.10			935	25	120	119	111				
THURSDAY	Aug 20	7 AM	29.8	22	10.25	10.06	-	-	935	28	115	109	142				16
		3 PM	29.8	18	9.78	10.07	-	-	727	7	126	126	121				
		11PM	29.8	17	10.27	10.00	-	-	1061	22	124	123	109				MET FLOW ON.
FRIDAY	Aug 21	7 AM	29.8	16	9.57	9.93	-	-	1174	23	117	112	141				16
		3 PM	29.6	13	9.82	9.90	-	-	707	18	124	121	124				
		11PM	29.3	13	10.12	9.87	-	-	707	51	119	125	115				STARTED FLOW AT SHUTDOWN
SATURDAY																	
SUNDAY																	

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

AKC-0005362

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	Aug 24 2009	7 AM	29.0	13	9.80	9.75	-	-	895	52	92	85	142				64
		3 PM	29.0	9	10.09	10.09	-	-	590	7	115	114	125				
		11PM	28.9	7	10.06	10.09	-	-	740	11	126	126	110				16 Flowing at shutdown
TUESDAY	Aug 25 2009	7 AM	28.9	7	9.78	10.04	-	-	772	11	117	111	138				16
		3 PM	28.6	18	10.05	9.94	-	-	647	24	125	125	118				
		11PM	28.1	18	10.87	9.87	-	-	1498	54	119	121	108				
WEDNESDAY	Aug 26 2009	7 AM	28.0	17	12.00	9.78	-	-	1498	59	114	110	141				16
		3 PM	27.6	13	10.77	9.91	-	-	697	24	126	123	119				
		11PM	27.6	13	9.48	9.96	-	-	762	43	119	123	108				
THURSDAY	Aug 27 2009	7 AM	27.5	12	10.36	9.90	-	-	762	47	115	109	141				16
		3 PM	27.0	8	10.46	10.59	-	-	811	9	126	128	122				
		11PM	27.0	5	10.26	10.46	-	-	983	16	120	128	104				
FRIDAY	Aug 28 2009	7 AM	27.1	2	9.85	10.37	-	-	983	16	115	121	139				64
		3 PM	27.1	13	9.76	10.20	-	-	207	13	125	123	123				16
		11PM	26.5	10	10.15	10.05	-	-	1123	30	121	125	109				Flowing
SATURDAY																	
SUNDAY																	

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

AKC-0005363

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-0005364

Company Name: ALASKAN COPPER WORKS **Sample Site No.** A-4010 **Permit/DA No.:** 7238

Please Specify Month & Year: **Month** AUGUST **2009**

This form is available at http://dnr.metrokc.gov/wlr/indwaste

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)		Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1		---------	---------												----------	
2		---------	---------												----------	
3		9.5	9.6												634	
4		9.5	9.6												826	
5		9.5	9.5												655	
(6)	C	9.5	9.5		.55	.53			.61		.05				1381	
7		9.5	9.5												1368	
8		---------	---------												----------	
9		---------	---------												----------	
10		9.5	10.1												1909	
11		9.8	9.9												1043	
12		9.6	9.8												1247	
(13)	C	9.7	9.9	.01	.40	.46	.01		.50		.05				1436	
14		9.7	9.8												1592	
15		---------	---------												----------	
16		---------	---------												----------	
17		9.7	9.7												1372	
18		9.8	10.1												1265	
19		10.0	10.1												909	
(20)	C	10.0	10.0		.26	.33			.23		.04				935	
21		9.8	9.9												1174	
22		---------	---------												----------	
23		---------	---------												----------	
24		9.7	10.0												895	
25		9.8	10.0												772	
26		9.8	9.9												1498	
(27)	C	9.9	10.5		.43	.47			.45		.04				762	
28		10.0	10.3												983	
29		---------	---------												----------	
30		---------	---------												----------	
31		9.7	9.7												1276	

Monthly Min pH	9.5	& Date	8-3	Total Monthly Flow (gallons)	23932		
Monthly Max pH	10.5	& Date	8-27	Maximum Daily Flow	1909	& Date	8-10

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 9/11/09

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

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-0005365

Company Name: ALASKAN COPPER WORKS **Sample Site No.** A-4009 **Permit/DA No.:** 7201

Please Specify Month & Year: **Month** AUGUST **2009**

This form is available at http://dnr.metrokc.gov/wlr/indwaste

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)		Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																

NOT IN USE THIS MONTH

Monthly Min pH _____ & Date _____
Monthly Max pH _____ & Date _____

Total Monthly Flow (gallons) _____
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: [signature] Date: 9/11/09

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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