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 31 2009	7 AM	26.6	11	9.98	9.74	-	-	1276	31	95	91	95				16
		3 PM	26.6	7	9.59	9.78	-	-	504	19	120	112	107				
		11PM	26.6	2	11.02	9.78			1230	24	125	124	94				
TUESDAY	Sept 1 2009	7 AM	26.6	2	10.12	9.75	-	-	1230	24	118	110	138				16
		3 PM	26.1	12	11.00	9.73	-	-	703	17	124	125	118				
		11PM	25.9	11	11.47	9.69	-	-	723	35	122	127	104				Flowing to MET
WEDNESDAY	Sept 2 2009	7 AM	25.8	11	10.61	9.81	-	-	906	35	116	111	140				16
		3 PM	25.5	5	10.48	10.32	-	-	705	20	125	124	118				
		11PM	25.5	17	9.73	10.67	-	-	1226	24	120	115	104				
THURSDAY	Sept 3 2009	7 AM	25.5	17	10.83	10.53	-	-	1226	26	115	106	138				64
		3 PM	25.3	17	9.86	10.52	-	-	216	15	124	126	123				
		11PM	25.1	16	10.13	10.34	-	-	757	39	126	119	114				16
FRIDAY	Sept 4 2009	7. AM	25.1	11	9.65	10.29	-	-	757	39	115	109	137				16
		3 PM	24.7	9	10.96	10.01	-	-	799	27	126	126	124				
		11PM	24.5	8	9.79	9.92	-	-	1003	41	125	121	115				
SATURDAY																	
SUNDAY																	

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

AKC-0005352

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

DAILY LOG

DAY / DATE	TIME	CAUSTIC LEVEL	FLOCS 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 Labor Day	7 AM															
	3 PM															Holiday
	11PM															
TUESDAY Sept 8 2009	7 AM	24.1	7	10.64	9.45	-	-	1003	45	82	79	144				16
	3 PM	240	15	10.31	9.68	-	-	476	23	114	99	120				
	11PM	23.5	13	10.14	9.89	-	-	925	45	120	112	111				MET Flowing
WEDNESDAY Sept 9 2009	7 AM	23.5	12	9.51	9.89	-	-	1083	45	109	102	140				16
	3 PM	236	8	9.52	9.87	-	-	674	20	126	114	120				
	11PM	231	5	9.97	9.93	-	-	1419	60	118	116	112				
THURSDAY Sept 10 2009	7 AM	23.1	5	9.89	9.90	-	-	149	61	109	102	140				16
	3 PM	226	14	11.31	9.84			827	25	124	118	123				
	11PM	226	12	9.73	9.86	-	-	1095	35	122	124	117				69
FRIDAY Sept 11 2009	7 AM	22.6	12	9.95	9.84	-	-	1095	36	113	108	141				16
	3 PM	22.3	8	10.18	9.89	-	-	614	4	128	119	128				
	11PM	22.3	8	9.65	9.86	-	-	739	10	118	127	113				
SATURDAY																
SUNDAY																

AKC-0005353

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	Sept 14 2009	7 AM	22.4	7	9.65	9.66	-	-	839	11	84	82	130				12
		3 PM	22.3	3	10.04	9.68	-	-	350	5	113	108	113				
		11PM	22.4	13	9.85	9.63	-	-	845	19	123	118	108				
TUESDAY	Sept 15 2009	7 AM	22.4	13	9.86	9.59	-	-	845	21	109	102	132				16
		3 PM	22.4	8	10.23	9.60	-	-	377	10	115	105	118				
		11PM	21.9	5	9.73	9.89	-	-	1322	45	115	101	111				
WEDNESDAY	Sept 16 2009	7 AM	21.9	5	9.5	9.83	-	-	1322	46	109	92	132				64
		3 PM	21.3	16	10.00	9.83	-	-	699	17	126	110	118				
		11PM	21.4	13	10.24	9.93	-	-	1163	27	119	115	112				12
THURSDAY	Sept 17 2009	7 AM	21.3	13	11.48	9.90	-	-	1163	30	114	100	136				14
		3 PM	21.4	13	9.71	9.90	-	-	175	8	125	118	121				
		11PM	21.1	10	9.66	9.87	-	-	568	19	119	126	113				
FRIDAY	Sept 18 2009	7 AM	20.8	10	11.40	9.84	-	-	568	23	112	105	137				16
		3 PM	20.8	18	9.86	10.48	-	-	1147	38	123	121	116				
		11PM	20.3	15	10.77	10.54	-	-	1366	46	120	122	111				
SATURDAY																	
SUNDAY																	

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

AKC-0005354

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	Sept 21 2009	7 AM	20.1	15	10.10	10.21	-	-	1366	46	87	74	136				16
		3 PM	19.8	10	9.71	10.33	-		604	8	111	99	121				
		11PM	19.9	8	9.73	10.11			1416	32	123	110	112				
TUESDAY	Sept 22 2009	7 AM	19.9	8	10.07	10.06	-	-	1416	33	113	91	139				84
		3 PM	19.4	20	9.69	10.03	-	-	380	13	127	107	121				
		11PM	19.0	18	10.28	10.05	-	-	927	32	121	115	110				16
WEDNESDAY	Sept 23 2009	7 AM	18.9	17	9.87	10.01	-	-	927	32	112	96	133				16
		3 PM	19.1	17	9.92	9.88	-	-	0	13	128	115	115				
		11PM	18.7	15	10.20	10.05	-	-	893	34	120	116	104				
THURSDAY	Sept 24 2009	7 AM	18.8	15	10.92	9.99	-	-	893	38	111	98	133				16
		3 PM	18.8	13	9.93	9.94	-	-	465	10	126	117	118				
		11PM	18.2	11	11.98	9.97	-	-	995	46	119	118	110				
FRIDAY	Sept 25 2009	7 AM	18.3	11	11.08	9.93	-	-	995	40	112	99	133				16
		3 PM	17.9	8	11.83	9.96	-	-	433	14	126	116	118				
		11PM	17.9	5	9.82	9.98	-	-	638	19	120	118	109				
SATURDAY																	
SUNDAY																	

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

AKC-0005355

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-0005356

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

Please Specify Month & Year: **Month** SEPTEMBER **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		9.6	9.7												1230	
2		9.8	10.6												906	
(3)	C	10.3	10.5		.28	.30			.26		.02				1226	
4		9.9	10.2												757	
5		---	---												---	
6		---	---												—	
7		---	---												—	LABOR DAY
8		9.5	9.9												1003	
9		9.8	9.9												1083	
(10)	C	9.8	9.9		.19	.42			.18		.04				1419	
11		9.8	9.8												1095	
12		---	---												---	
13		---	---												—	
14		9.6	9.7												839	
15		9.6	9.9												845	
16		9.8	9.9												1322	
(17)	G	9.8	9.9		.28	.59			.31		.09				1163	
18		9.8	10.5												568	
19		---	---												---	
20		---	---												---	
21		10.1	10.3												1366	
22		10.0	10.0												1416	
23		9.9	10.0												927	
24		9.9	9.9												893	
25		9.9	9.9												995	
26		---	---												---	
27		---	---												—	
28		9.8	10.2												638	
29		10.1	10.2												1355	
30		10.1	10.3												1166	
31	---	---	---	---	---	---	---	---	---	---	---	---	---	--	---	

Monthly Min pH	9.5	& Date	9-5-2009	Total Monthly Flow (gallons)	22212
Monthly Max pH	10.5	& Date	9-18-2009	Maximum Daily Flow	1419 & Date 9-10

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 10/12/09

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-0005357

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

Please Specify Month & Year: **Month** SEPTEMBER **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																
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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 _____

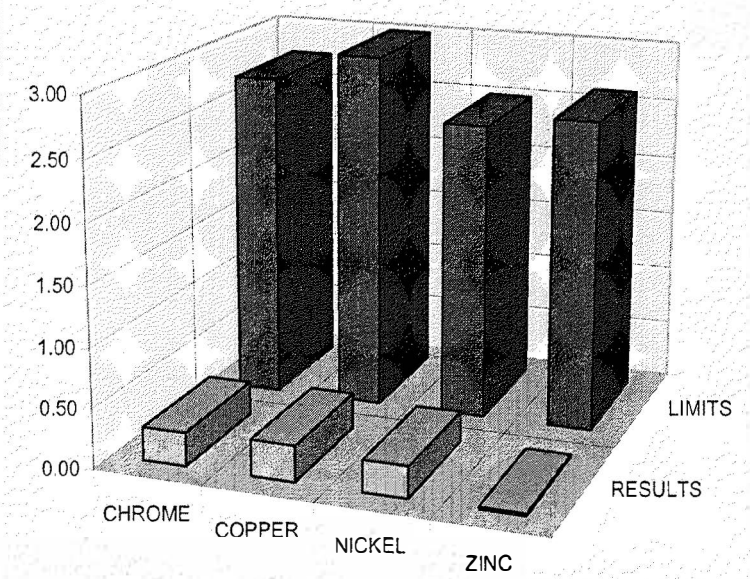
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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 10/12/09

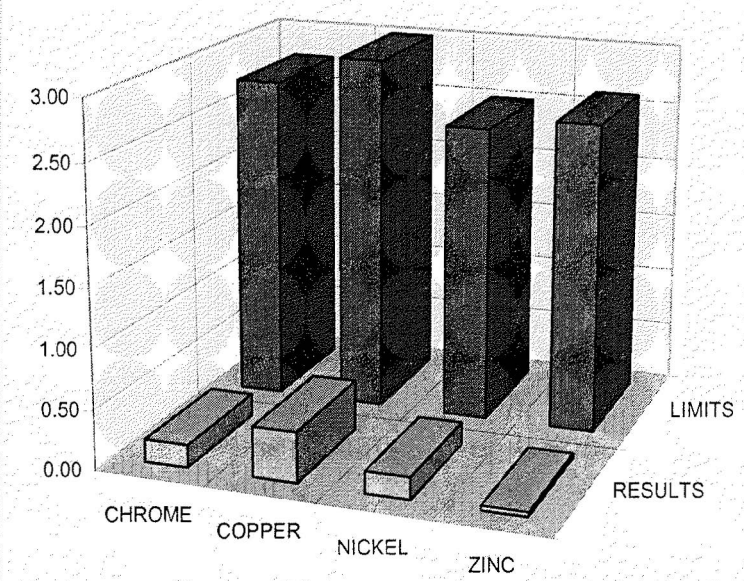
PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

SEPTEMBER
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
SEPTEMBER 3, 2009
COMPOSITE M04575



ALASKAN COPPER WORKS
3200 FACILITY
SEPTEMBER 10, 2009
COMPOSITE M123385

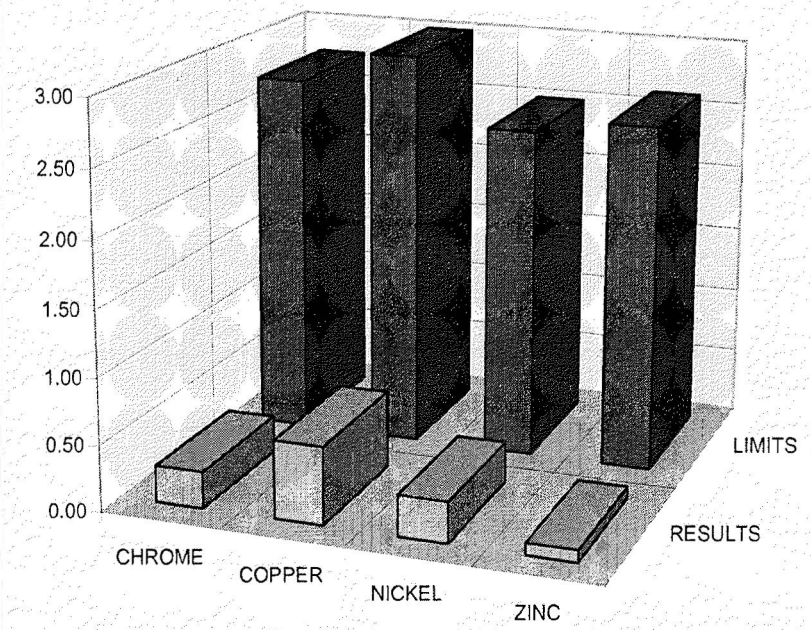
VISUAL REPRESENTATION OF THE LAB RESULTS

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

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.28	0.30	0.26	0.02
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.19	0.42	0.18	0.04
LIMITS	2.75	3.00	2.50	2.61

SEPTEMBER
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
SEPTEMBER 17, 2009
COMPOSITE M123436

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	0.28	0.59	0.31	0.09
LIMITS	2.75	3.00	2.50	2.61