Industrial Waste Discharge 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-0009202

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

Please indicate reporting period:

Month JUNE **2002** **Quarter** 1 2 3 4 (circle one) **20** **Semi-Annual** **Annual** (circle one) **20**

All units are mg/l unless otherwise noted.

Sample Date (circle)	Sample Type (C composite or G grab)	pH Min	pH Max	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Silver, Ag	Zinc, Zn	Cyanide, CN	Fats, Oils, and Grease (FOG)	Other Parameters		Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1		9.7	9.8													2025	
2		-----	-----													----------	
3		9.6	9.7													1649	
4		9.8	9.8													2188	
5		9.9	9.9													1903	
(6)	C	9.9	9.9		.27	.25			.20		.16					2048	
7		9.9	9.9													2363	
8		-----	-----													----------	
9		-----	-----													----------	
10		9.7	9.9													2625	
11		9.8	9.9													2215	
12		9.7	9.8													2310	
(13)	C	9.6	9.7		.23	.30			.11		.08					2474	
14		9.7	9.7													2236	
15		9.7	9.7													1605	
16		-----	-----													----------	
17		9.4	9.5													963	
18		9.6	9.7													3220	
19		9.2	9.9													1808	
(20)	C	9.8	9.9		.17	.18			.14		.07					2677	
21		9.9	9.9													1762	
22		-----	-----													----------	
23		-----	-----													----------	
24		9.8	9.9													1754	
25		9.6	10.0													2231	
26		9.9	10.0													1461	
(27)	C	9.8	9.8		.17	.22			.18		.10					2065	
28		9.8	9.8													2334	
29		-----	-----													----------	
30		-----	-----													----------	
31		-----	-----													----------	

Monthly Min pH	9.2	& Date	7-19-02	Total Monthly Flow (gallons)	45,916
Monthly Max pH	10.0	& Date	7-27-02	Maximum Daily Flow	3220 & Date 7-18

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 7/6/02

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

AKC-0009203

Industrial Waste Discharge 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

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

Please indicate reporting period:

Month JUNE **2002** **Quarter** 1 2 3 4 20 (circle one) **Semi-Annual** **Annual** 20 (circle one)

All units are mg/l unless otherwise noted

Sample Date (circle)	Sample Type C (composite) or G (grab)	pH Min	pH Max	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Silver, Ag	Zinc, Zn	Cyanide, CN	Fats, Oils, and Grease (FOG)	Other Parameters	Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
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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 _____

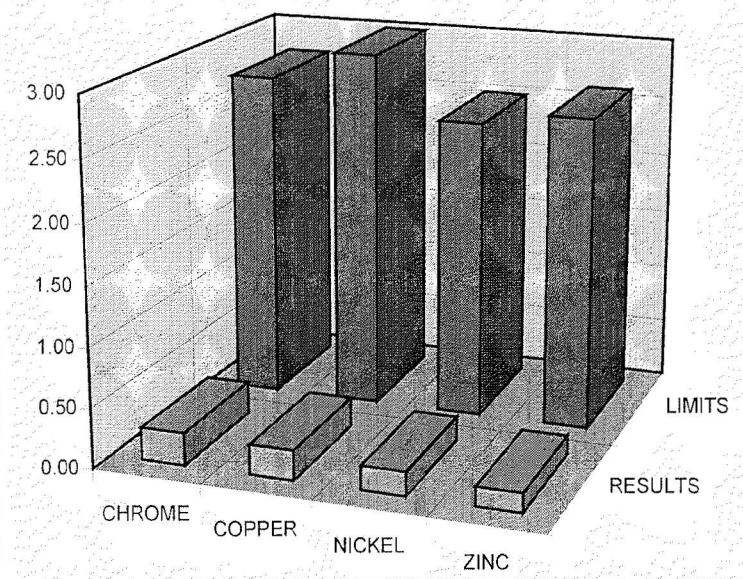
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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 _____ Date 7/6/02

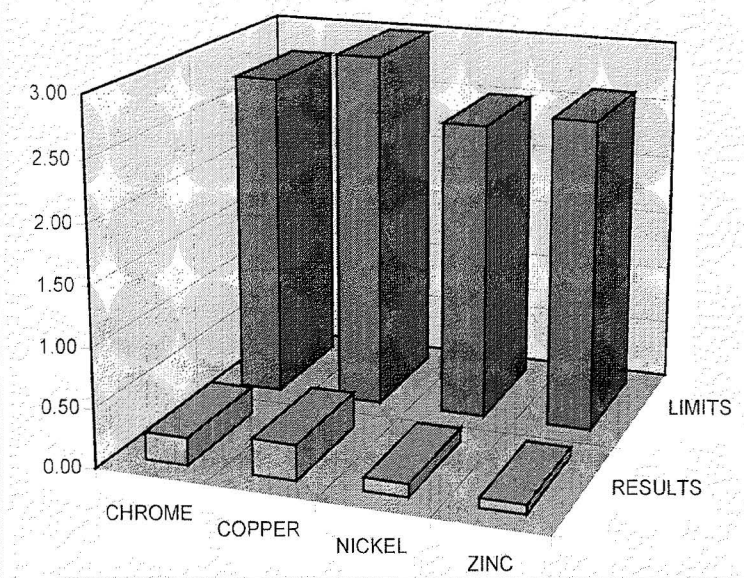
PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

JUNE
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
JUNE 6, 2002
COMPOSITE M68104



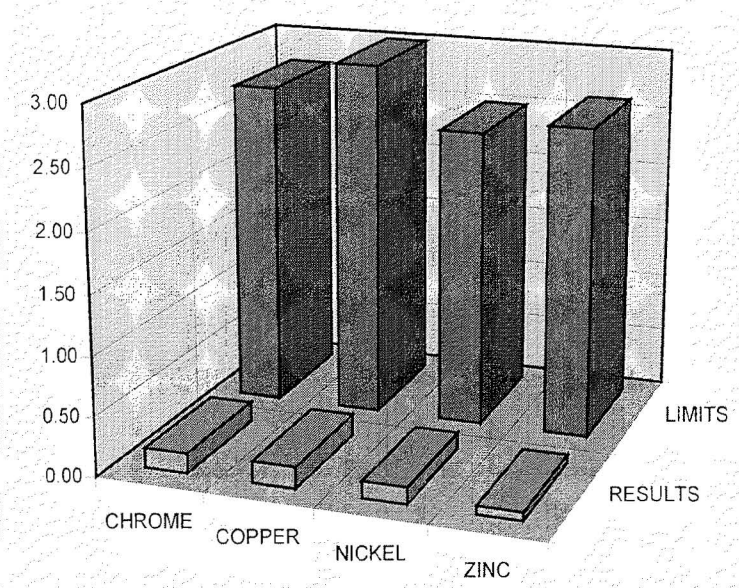
ALASKAN COPPER WORKS
3200 FACILITY
JUNE 13, 2002
COMPOSITE M68191

VISUAL REPRESENTATION OF THE LAB RESULTS

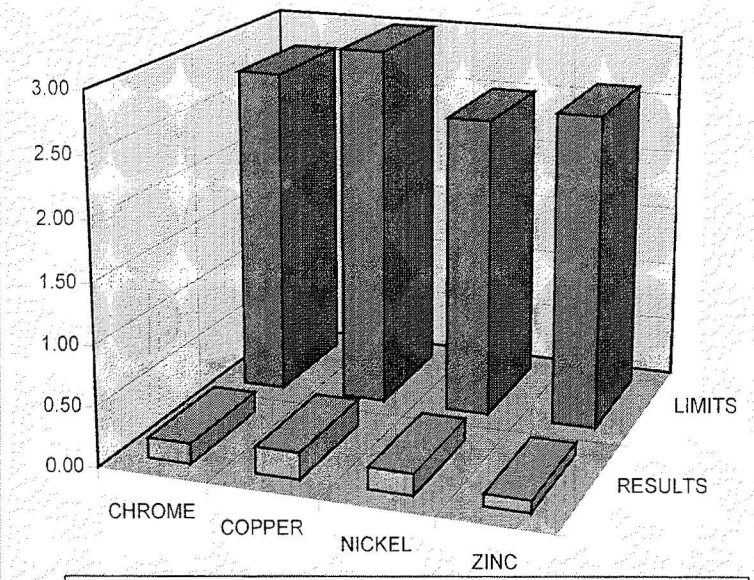
	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.27	0.25	0.20	0.16
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.23	0.30	0.11	0.08
LIMITS	2.75	3.00	2.50	2.61

JUNE
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
JUNE 20, 2002
COMPOSITE M68229



ALASKAN COPPER WORKS
3200 FACILITY
JUNE 27, 2002
COMPOSITE M68274

VISUAL REPRESENTATION OF THE LAB RESULTS

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.17	0.18	0.14	0.07
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.17	0.22	0.18	0.10
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	5/22	7 AM	17.0	7	11.36	9.44	–	–	1780	10	129	114	108				Holiday
		3 PM															
		11PM															
TUESDAY	5/23	7 AM	17.0	7	11.36	9.44	–	–	1770	10	129	114	108				
		3 PM	16.8	20	10.35	9.37	–	–	887	23	118	120	102				
		11PM	15.5	17	10.01	9.69	–	–	2205	109	124	119	99				
WEDNESDAY	5/24	7 AM	14.4	17	10.09	9.85	–	–	2395	111	118	118	115				Forgot to Reset Flow & Cycles
		3 PM	14.2	13	10.39	9.86	–	–	3260	151	115	114	126				
		11PM	13.2	10	9.76	9.99	–	–	4648	203	106	105	127				
THURSDAY	5/30	7 AM	12.9	10	9.67	9.99	–	–	4698	215	102	99	130				
		3 PM	12.4	5	10.44	9.91	–	–	1178	28	117	113	125				2395 / 2253
		11PM	11.6	17	9.81	9.83	–	–	2622	69	122	120	125				
FRIDAY	5/31	7 AM	11.6	15	9.62	9.96	–	–	2622	72	120	121	129				
		3 PM	11.0	10.	9.87	9.97	–	–	1149	37	128	124	126				
		11PM															
SATURDAY	6/1	4:30	11.1	5	10.01	9.87	–	–	2025	58	121	122	113				
		3.00/6.3		15	10.72	9.77	–	–	1410	43	123	119	126				
SUNDAY																	

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

AKC-0009206

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	6/3	7 AM	10.3	15	9.93	9.78	–	–	1649	56	116	117	133				Forgot to Reset Flow & Cycles
		3 PM	9.0	13	10.66	9.70	–	–	2817	94	128	129	127				
		11PM	8.7	9.0	10.74	9.69	–	–	3837	125	123	118	128				
TUESDAY	6/4	7 AM	8.7	9	10.55	9.80	–	–	3837	125	121	117	128				RESET AT 7:00 AM 3837 1649 2188
		3 PM	8.1	5	9.58	9.80	–	–	965	19	122	127	127				
		11PM	7.7	3	9.63	9.85	–	–	1903	61	126	124	127				
WEDNESDAY	6/5	7 AM	7.7	3	9.58	9.93	–	–	1903	67	119	114	128				Forgot to Reset Flow & Cycles
		3 PM	7.7	15	10.50	9.91	–	–	2823	84	121	121	127				
		11PM	7.2	12	9.94	9.95	–	–	3776	132	123	119	126				
THURSDAY	6/6	7 AM	6.1	12	9.61	9.94	–	–	2048 3951	138	116	120	130				
		3 PM	6.1	8	10.79	9.92	–	–	881	34	121	119	128				
		11PM	5.1	4	12.0	9.95	–	–	2044	80	122	119	129				
FRIDAY	6/7	7 AM	5.1	3	9.78	9.96	–	–	2363	112	114	116	128				
		3 PM	4.1	15	9.75	9.94	–	–	1081	24	123	121	126				
		11PM	3.6	12	12.0	9.83	–	–	2369	76	123	121	128				
SATURDAY																	
SUNDAY																	

AKC-0009207

Y:\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° OAKITE TANK	REVETMENT LARGE RINSE	REVETMENT LARGE ACID	REVETMENT SMALL TANKS	COMMENTS,PROBLEMS,& REMARKS (W/O#)
MONDAY	6/10	7 AM	2.5	10	10.01	9.78	–	–	2625	87	92	89	87				
		3 PM	2.3	7	10.99	9.81	–	–	984	38	99	118	126				
		11PM	1.2	3	10.01	9.91	–	–	2104	92	118	121	127				
TUESDAY	6/11	7 AM	2.2	3	10.81	9.98	–	–	2215	99	117	114	126				
		3 PM	2.2	14	9.51	9.94	–	–	1285	35	127	126	126				
		11PM	1.0	10.0	10.50	9.87	–	–	2310	97	123	124	125				
WEDNESDAY	6/12	7 AM	1.0	11	9.85	9.84	–	–	2310	14	120	116	112				
		3 PM	26.4	7	9.51	9.78	–	–	1218	20	123	120	126				
		11PM	26.2	4	9.77	9.75	–	–	2212	53	128	120	125				
THURSDAY	6/13	7 AM	26.3	4	10.19	9.79	–	–	2474	63	120	117	128				
		3 PM	26.0	16	10.47	9.70	–	–	1057	27	126	118	127				
		11PM	25.5	13	9.43	9.69	–	–	1769	64	119	128	128				
FRIDAY	6/14	7 AM	25.1	13	11.19	9.71	–	–	2236	71	119	123	128				
		3 PM	25.1	12	9.51	9.74	–	–	239	15	121	119	129				
		11PM	24.1	10	9.81	9.71	–	–	1361	85	124	125	128				
SATURDAY	6/15	4:10	24.1	7	11.15	9.72	–	–	1605	91	119	123	115				
		1130	23.9	5	9.85	9.73	–	–	728	27	113	113	107				
SUNDAY																	

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

AKC-0009208

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	6/17	7 AM	5	23.6	9.92	9.82	—	—	963	36	94	99	124				Forgot to Reset Slow? Cycles Why?
		3 PM	~~23.1~~	~~16~~	9.68	9.42	—	—	1587	66	112	119	125				
		11PM	22.6	12	9.92	9.46	—	—	2970	90	128	126	126				
TUESDAY	6/18	7 AM	22.6	11	9.23	9.60	—	—	3220	92	118	119	127				
		3 PM	22.2	9		9.64	—	—	484	9	122	124	127				
		11PM	21.4	3	9.76	9.77	—	—	1808	54	118	121	126				
WEDNESDAY	6/19	7 AM	21.1	3	9.69	9.94	—	—	1808	62	120	123	126				
		3 PM	20.1	14	10.58	9.92	—	—	1231	30	123	119	127				
		11PM	19.0	10	9.87	9.80	—	—	2677	74	127	119	125				
THURSDAY	6/20	7 AM	19.1	10	10.58	9.85	—	—	2677	77	119	118	125				
		3 PM	18.9	6	10.40	9.91	—	—	710	29	127	118	125				
		11PM	18.5	2	10.0	9.99	—	—	1724	76	122	119	125				
FRIDAY	6/21	7 AM	18.2	2	9.99	9.99	—	—	1762	76	121	123	126				
		3 PM	18.2	15	10.34	9.92	—	—	710	12	126	128	126				
		11PM	18.0	12	10.04	9.95	—	—	1471	41	121	128	120				
SATURDAY																	
SUNDAY																	

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

AKC-0009209

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	6/21	7 AM	18.1	12	10.35	9.88	—	—	1754	45	95	96	131				
		3 PM	18.0	7	10.42	9.83	—	—	845	23	104	128	129				
		11PM	16.8	3	9.83	9.93	—	—	1933	52	128	124	124				
TUESDAY	6/22	7 AM	16.8	3	10.55	9.96	—	—	2231	52	119	125	127				Forgot to Reset Flow Amigo
		3 PM	16.5	14	10.60	9.95	—	—	3005	14	125	122	130				Ok "
		11PM	15.4	13	10.38	10.01	—	—	3692	38	120	124	129				
WEDNESDAY	6/23	7 AM	15.5	13	9.72	10.04	—	—	~~1461~~ 3692	46	116	115	126				3692
		3 PM	15.4	13	9.94	10.03	—	—	1366	32	122	119	129				2231
		11PM	14.9	13	10.19	9.98			1861	52	127	123	128				1461
THURSDAY	6/24	7 AM	14.5	13	9.76	9.88	—	—	2065	57	119	115	127				
		3 PM	14.2	9	9.85	9.83	—	—	1091	30	123	121	129				
		11PM	13.7	6	10.14	9.80	—	—	2161	68	125	119	125				
FRIDAY	6/25	7 AM	13.7	6	9.95	9.83	—	—	2334	68	118	117	126				
		3 PM	13.2	19	11.58	9.84	—	—	753	17	127	123	129				
		11PM	12.9	17	9.52	9.83	—	—	1654	28	119	127	127				
SATURDAY																	
SUNDAY																	

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

AKC-0009210