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-0004102

Company Name: ALASKAN COPPER WORKS 3200 6TH AVE. S. **Sample Site No.** A4010 **Permit/DA No.:** 7238-04

Please Specify Month & Year: **Month:** NOVEMBER **2011**

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		9.7	10.0											1283	
2		9.9	10.5											1187	
(3)	C	10.2	10.4		1.02	.81			.85		.01			1210	
4		10.0	10.2											912	
5		---------	---------											----------	
6		---------	---------											----------	
7		9.9	10.1											799	
8		10.0	10.0											876	
9		9.9	10.0											972	
(10)	C	9.8	9.9		1.01	.84			.88		.01			1104	
11		9.8	9.9											710	
12		---------	---------											----------	
13		---------	---------											----------	
14		9.7	10.0											644	
15		9.9	10.2											583	
16		10.0	10.1											695	
(17)	C	9.9	10.0		.14	.11			.09		.01			713	
18		9.2	9.8											473	
19		---------	---------											----------	
20		---------	---------											----------	
21		9.7	10.2											497	
22		9.9	10.2											1259	
23		9.8	10.2											1296	
24		---------	---------											----------	HO LIDAY
25		---------	---------											----------	
26		---------	---------											----------	WEEK END
27		---------	---------											----------	
28		9.7	10.2											1570	
29		10.1	10.2											1796	
30		10.0	10.2											1189	
31	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	----------	

Monthly Min pH	9.2	& Date	11-18-11	Total Monthly Flow (gallons)	19768
Monthly Max pH	10.5	& Date	11-2-11	Maximum Daily Flow	1796 & Date 11-29-11

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 12/6/11

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

King County

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130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

AKC-0004103

Company Name: ALASKAN COPPER WORKS E. MARGINAL WAY **Sample Site No.** A4009 **Permit/DA No.:** 7201-04

Please Specify Month & Year: **Month:** NOVEMBER **2011**

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															
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31															

NOT IN THIS MONTH

Monthly Min pH _____ & Date _____ Total Monthly Flow (gallons) _____

Monthly Max pH _____ & Date _____ Maximum Daily Flow _____ & Date _____

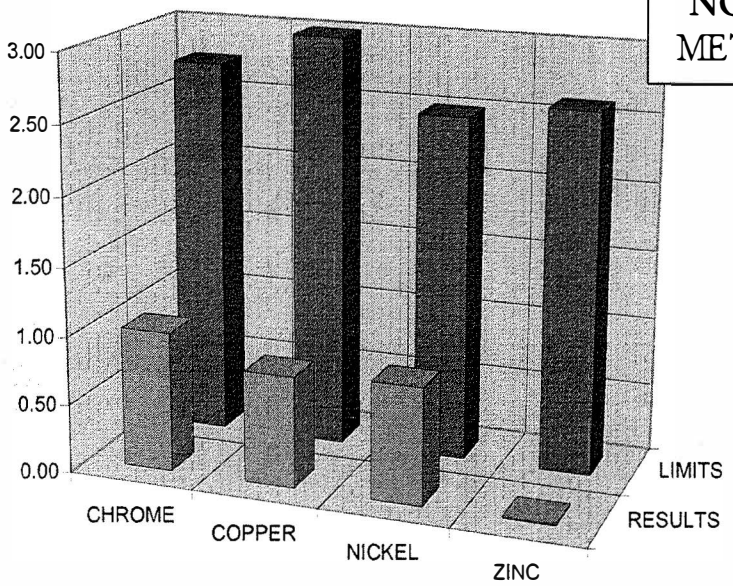
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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 laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

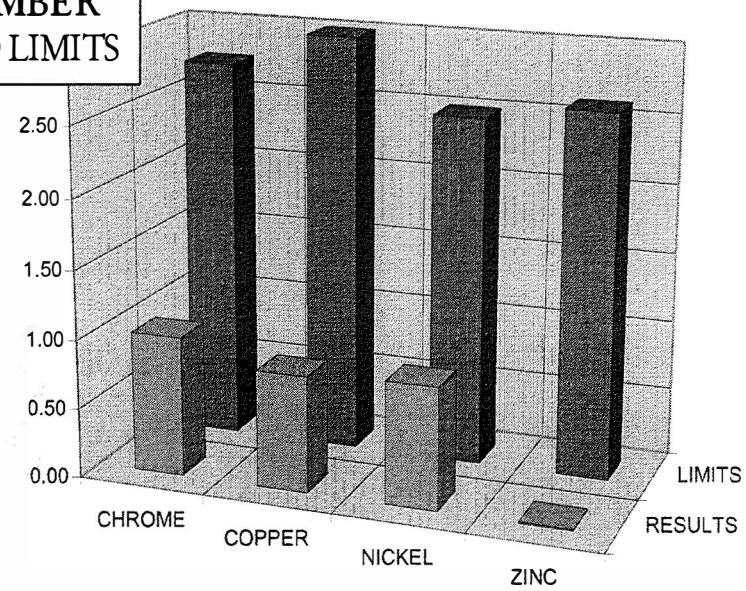
Signature of Principal Executive or Authorized Agent — Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

NOVEMBER
METRO LIMITS





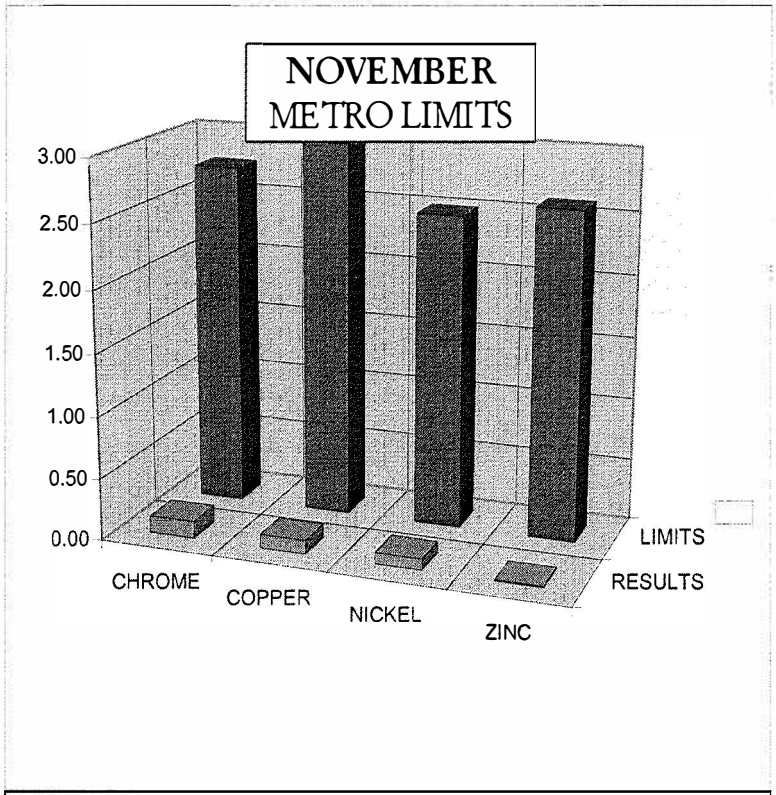
ALASKAN COPPER WORKS 3200 FACILITY NOVEMBER 3 , 2011 COMPOSITE M07892	ALASKAN COPPER WORKS 3200 FACILITY NOVEMBER 10, 2011 COMPOSITE M129196

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	1.02	0.81	0.85	0.01
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	1.01	0.84	0.88	0.01
LIMITS	2.75	3.00	2.50	2.61



ALASKAN COPPER WORKS
3200 FACILITY
NOVEMBER 17, 2011
COMPOSITE M07985

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	0.14	0.11	0.09	0.01
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	10/31	7 AM	24.2	15	10.52	9.83	–	–	1283	24	77	96	125				Recharged Acid tanks
		3 PM	24.6	13	10.45	9.77	–	–	632	14	85	110	125				
		11PM	23.1	12	9.68	10.06	–	–	1187	45	81	118	123				
TUESDAY	11/1	7 AM	23.1	10	9.55	9.79	–	–	1187	49	81	112	118				
		3 PM	23.0	10	10.04	10.02	–	–	510	7	84	117	128				
		11PM	23.2	7	10.59	10.50	–	–	1210	12	86	126	117				
WEDNESDAY	11/2	7 AM	22.7	6	11.19	10.46	–	–	1210	12	86	120	112				
		3 PM	22.3	3	9.86	10.51	–	–	573	1	87	126	118				
		11PM	22.5	15	10.04	10.48	–	–	943	27	89	128	116				
THURSDAY	11/3	7 AM	22.2	15		10.45	–	–	943	32	87	121	111				
		3 PM	21.9	13	9.97	10.31	–	–	435	3	88	119	128				
		11PM	21.7	12	9.69	10.23	–	–	912	22	90	123	119				
FRIDAY	11/4	7 AM	22.2	12	7.41	10.9	–	–	912	25	85	121	111				FLOW METER RUNNING.
		3 PM	21.4	12	12.05	10.09	–	–	150	4	90	121	128				
		11PM	21.3	9	10.17	10.26	–	–		22	90	127	119				
SATURDAY																	
SUNDAY																	

AKC-0004106

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	11-7-11	7 AM	20.9	9	9.84	10.05	—	—	799	22	74	92	128				
		3 PM	21.2	9	10.87	9.98	—	—	613	12	76	112	128				
		11PM	20.2	5	9.63	10.16	—	—	876	25	78	110	113				
TUESDAY	11-8-11	7 AM	20.7	5	11.87	10.12	—	—	876	27	78	111	120				
		3 PM	20.1	5	10.01	10.00	—	—	369	13	81	116	121				
		11PM	20.1	17	10.11	10.09	—	—	972	36	83	117	117				
WEDNESDAY	11-9-11	7 AM	20.0	16		9.99	—	—	972	40	83	121	128				
		3 PM	20.1	14	10.24	9.94	—	—	465	8	85	121	126				
		11PM	19.3	12	10.04	10.04	—	—	1104	31	87	118	122				
THURSDAY	11-10-11	7 AM	19.2	12	11.87	9.98	—	—	1101	34	86	120	118				
		3 PM	19.4	11	9.83	9.86	—	—	147	7	88	124	128				
		11PM	19.1	8	11.18	9.94	—	—	710	16	89	118	119				
FRIDAY	11-11-11	7 AM	19.0	8	10.42	9.86	—	—	710	16	88	115	123				
		3 PM	19.0	8	9.89	9.83	—	—	268	19	89	122	128				
		11PM	18.7	7	10.02	9.97	—	—	644	27	90	123	120				
SATURDAY																	
SUNDAY																	

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

AKC-0004107

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	11/14	7 AM	18.7	7	9.68	9.75	—	—	644	27	75	56	134				
		3 PM	18.5	5	9.52	9.94	—	—	392	7	79	113	122				
		11PM	18.4	2	11.03	10.00	—	—	583	15	81	124	118				
TUESDAY	11/15	7 AM	18.1	2	11.52	9.98	—	—	583	18	81	121	128				
		3 PM	18.1	2	9.99	9.94	—	—	Ø	Ø	83	120	128				
		11PM	18.0	15	11.44	10.27	—	—	554	20	82	126	113				
WEDNESDAY	11/16	7 AM	17.9	15	10.88	10.19	—	—	695	23	82	125	140				
		3 PM	17.8	15	9.73	10.17	—	—	180	11	83	127	128				
		11PM	17.3	13	10.13	10.06	—	—	713	21	84	119	115				
THURSDAY	11/17	7 AM	17.2	13	[illegible]	[illegible]	—	—	212	22	84	120	139				
		3 PM	17.0	11	9.96	9.95	—	—	396	11	85	117	121				
		11PM	16.9	10	9.83	9.93	—	—	473	12	87	125	122				
FRIDAY	11/18	7 AM	17.0	10	9.82	9.28	—	—	473	12	88	122	139				
		3 PM	17.1	10	10.26	9.85	—	—	0	0	91	124	119				
		11PM	17.0	10	10.23	9.89	—	—	0	0	92	118	118				
SATURDAY																	
SUNDAY																	

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

AKC-0004108

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	11/21	7 AM	16.9	10	9.20	9.77	–	–	–	–	78	84	134				
		3 PM	16.1	8	11.96	10.01	–	–	770	53	79	99	120				
		11PM	15.7	6	9.79	10.27	–	–	1259	74	80	111	114				
TUESDAY	11/22	7 AM	15.7	6	10.21	10.17	–	–	1259	74	79	111	121				
		3 PM	15.0	2	9.88	10.08	–	–	720	31	80	120	122				
		11PM	14.5	15	9.97	9.96	–	–	1296	58	81	113	120				
WEDNESDAY	11/23	7 AM	14.3	15	12.07	9.88	–	–	1296	64	80	116	140				
		3 PM	13.7	13	9.99	10.27	–	–	1058	27	82	120	127				
		11PM	13.2	10	9.80	10.17	–	–	1520	54	83	113	112				
THURSDAY		7 AM															
		3 PM															
		11PM															
FRIDAY		7 AM															
		3 PM															
		11PM															
SATURDAY																	
SUNDAY																	

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AKC-0004109