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

ify Month & Year: Month: JUNE 2010 This form is available at www.kingcounty.gov/industrialwaste.

ng/l unless otherwise noted. Note: For cyanide, circle test performed - amenable or total ▼

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)
9.5	9.8											1259	
9.5	9.7											1805	
9.6	9.8											1420	
9.7	9.9		.20	.29			.26		.02			964	
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--------	--------											--------	
9.7	10.4											688	
9.6	9.6											1623	
9.5	9.6											528	
9.7	9.7		.31	.26			.27		.02			1272	
9.5	9.8											824	
--------	--------											--------	
--------	--------											--------	
9.6	10.9											569	
10.0	10.8											940	
9.5	9.6											1319	
9.3	9.6		.36	.36			.35		.04			723	
9.3	9.6											984	
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--------	--------											--------	
9.6	9.9											1170	
9.3	9.8											1724	
9.4	9.9											870	
9.5	9.7		.25	.33			.29		.01			1163	
9.4	9.8											811	
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9.5	9.8											1057	
9.5	9.6											1241	
9.4	9.7											874	

H 9.3 & Date 6/17/2010 Total Monthly Flow (gallons) 23828

H 10.9 & Date 6/14/2010 Maximum Daily Flow 1805 & Date 6/2/2010

LE ALL PERMIT VIOLATIONS

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

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

7-7-10

Date

AKC-0004861

ame: ALASKAN COPPER WORKS-Marginal Way **Sample Site No.** A4009 **Permit/DA No.:** 7201-04

ify Month & Year: **Month:** JUNE **2010** **This form is available at www.kingcounty.gov/industrialwaste.**

ng/l unless otherwise noted. Note: For cyanide, circle test performed - amenable or total ▼

DO (ratio)	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)

H & Date

H & 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 7-7-10

LE ALL PERMIT VIOLATIONS

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

AKC-0004862

REF DWG NO. 500-0007 REV. 1 (5/94)

DAILY LOG

PROBLEMS & REMARKS

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	LARGE TANK			PROBLEMS & REMARKS
MONDAY	5-31	7 AM	11.6	13													Hol
		3 PM															
		11PM															
TUESDAY	6-1	7 AM	11.6	13	11.36	9.8	–	–	1259	34	124	121	121				16
		3 PM	11.6	8	9.66	9.45	–	–	947	13	123	117	124				
		11PM	[illegible]	18	9.52	9.79	–	–	1305	29	121	117	116				
WEDNESDAY	6-2	7 AM	11.1	19	10.63	9.80	–	–	1305	29	124	118	126				16
		3 PM	10.0	19	10.04	9.45	–	–	975	10	121	120	126				
		11PM	10.6	10	10.06	9.76	–	–	1206	43	123	114	116				Flowing tomot
THURSDAY	6-3	7 AM	10.3	10	9.15	9.65	–	–	1420	58	128	118	126				64
		3 PM	10.2	10	10.05	9.55	–	–	181	8	120	125	121				
		11PM	9.5	6	12.10	9.74	–	–	964	37	127	120	118				16
FRIDAY	6-4	7 AM	9.6	6	11.00	9.79	–	–	964	37	124	124	121				16
		3 PM	9.0	3	11.45	9.74	–	–	162	5	120	124	120				
		11PM	9.0	13	10.30	9.95	–	–	688	10	124	119	118				Sens-Pulse Turned off
SATURDAY																	
SUNDAY																	

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

AKC-0004863

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	6-7	7 AM	9.0	13	–	–	9.81	9.71	688	10	111	105	120				16
		3 PM	9.0	10	–	–	10.46	9.73	580	29	124	114	127				
		11PM	8.6	8			9.79	9.80	1623	61	124	112	119				
TUESDAY	6-8	7 AM	8.5	8	–	–		9.66	1623	68	126	114	120				16
		3 PM	8.1	5	–	–	9.72	9.61	180	9	120	115	127				
		11PM	7.9	16	–	–	9.75	9.62	528	40	126	116	120				SONS Manway is open
WEDNESDAY	6-9	7 AM	8.0	16	–	–	9.	9.54	528	43	126	112	128				16
		3 PM	8.0	15	–	–	10.42	9.51	178	8	119	118	125				
		11PM	7.5	12	–	–	9.78	9.63	1272	60	126	120	117				16 SONS – DN OFF
THURSDAY	6-10	7 AM	7.4	12	–	–	11.6	9.71	1772	73	123	125	120				16
		3 PM	6.9	10	–	–	9.58	9.70	243	30	123	120	128				
		11PM	6.4	7	–	–	9.61	9.78	524	81	121	118	118				
FRIDAY	6/11	7 AM	6.4	7	–	–	9.78		824	85	128	118	123				16
		3 PM	6.4	5	–	–	9.75	9.46	0	14	120	121	123				
		11PM	5.9	1			9.58	9.34	569	47	125	117	117				
SATURDAY																	
SUNDAY																	

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

AKC-0004864

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	6/14	7 AM	5.6	1	12.28	9.54	—	—	869	80	110	99	97				No
		3 PM	5.6	1/2	9.73	10.37	—	—	191	0	122	106	121				
		11PM	5.4	13	9.51	10.95	—	—	940	30	128	107	116				SEWS APPARENT OFF
TUESDAY	6/15	7 AM	5.4	13	12.25	10.86	—	—	940	33	120	110	118				64
		3 PM	4.9	11	10.17	10.21	—	—	589	25	120	111	127				
		11PM	4.6	10	9.65	10.06	—	—	1288	57	120	109	118				NO FLOW
WEDNESDAY	6/16	7 AM	4.4	10	12.45	9.69	—	—	1319	63	127	112	120				No
		3 PM	4.1	10	9.51	9.66	—	—	0	23	124	116	122				
		11PM	3.8	10	9.55	9.57	—	—	624	61	123	118	116				FLOC TANK WAS PINCHED — NOT FLO ON
THURSDAY	6/17	7 AM	3.8	10	10.65	9.55	—	—	723	29	127	117	118				NO CHECK FLOC FLOW
		3 PM	3.0	8	9.74	9.32	—	—	426	28	120	124	126				
		11PM	2.8	5	9.55	9.27	—	—	984	57	125	123	118				SEWS APPARENT IS OFF
FRIDAY	6/18	7 AM	2.5	5	10.13	9.22	—	—	984	19	125	121	120				No
		3 PM	2.5	5	10.23	9.34	—	—	327	1	121	127	126				
		11PM	2.3	1	10.11	9.45			1170	22	126	117	121				SEWS APPARENT OFF
SATURDAY																	
SUNDAY																	

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

AKC-0004865

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	1.2	1	11.85	10.88	–	–	1170	88	111	103	121				64
		3 PM	2.3	13	9.74	9.53	–	–	670	35	119	114	127				
		11PM	1.8	8	9.76	9.45	–	–	1724	82	125	120	114				16
TUESDAY	6-22	7 AM	1.2	8	10.20	9.36	–	–	1724	84	125	118	120				14
		3 PM	1.2	7	9.77	9.31	–	–	0	4	123	126	121				
		11PM	1.2	17	9.80	9.27	–	–	731	39	121	114	118				pump on
WEDNESDAY	6-23	7 AM	.7	16	10.10	9.22	–	–	870	43	125	116	120				16
		3 PM	.2	14	9.69	9.24	–	–	203	13	125	121	119				
		11PM	0	10	9.80	9.41	–	–	1163	69	120	119	120				
THURSDAY	6-24	7 AM	0	11	9.57	9.33	–	–	1163	78	126	120	120				16
		3 PM	20	10	9.68	9.31	–	–	257	18	123	124	116				
		11PM	20.6	8	9.80	9.38	–	–	511	34	115	122	118				
FRIDAY	6-25	7 AM	20.4	7	9.75	9.33	–	–	811	34	128	122	127				64
		3 PM	19.4	5	9.53	9.32	–	–	348	24	123	128	128				
		11PM	19.4	15	9.71	9.33	–	–	657	51	123	121	121				16
SATURDAY																	
SUNDAY																	

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

AKC-0004866

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

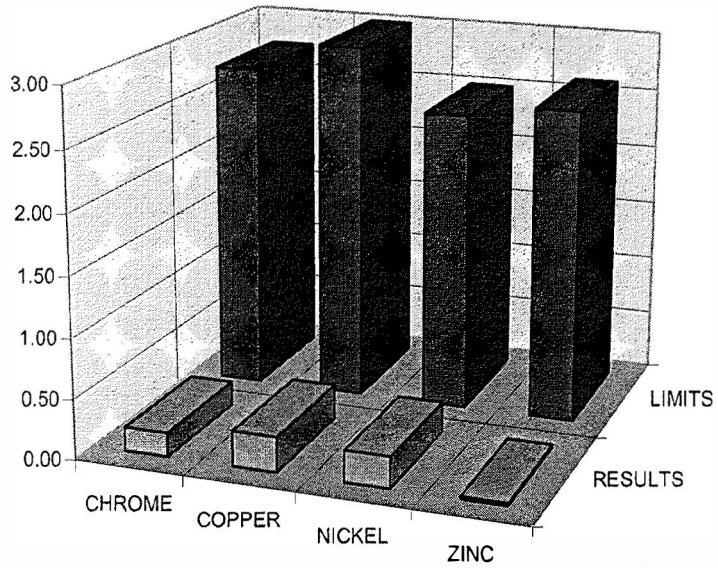
DAILY LOG

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/D#)
MONDAY	6-28	7 AM	19.1	15	11.76	9.59	–	–	1057	62	122	121	125				14
		3 PM	19.3	10	9.76	9.83	–	5	670	1	128	111	128				
		11PM	19.3	8	9.97	9.62	–	–	[illegible]	35	119	116	114				
TUESDAY	6-29	7 AM	19.0	8	9.59	9.59	–	–	1281	35	127	119	121				16
		3 PM	19.0	7	10.23	9.52	–	–	171	16	124	121	127				
		11PM	19.2	1	9.71	9.43	–	–	874	25	115	120	115				
WEDNESDAY	6-30	7 AM	19.2	20	10.90	9.78	–	–	874	22	125	121	121				14
		3 PM	19.2	18	9.77	9.35	–	–	0	10	122	118	125				
		11PM	18.7	15	9.89	9.39	–	–	400	48	121	122	119				
THURSDAY	7-1	7 AM	18.8	15	11.98	9.39	–	–	400	54	126	127	120				14
		3 PM	18.7	13	10.41	9.30	–	–	297	4	121	121	120				
		11PM	18.2	10	10.72	9.58	–	–	813	47	123	123	116				16
FRIDAY	7-2	7 AM	18.2	10	9.59	9.40	–	–	813	47	127	123	123				16
		3 PM	18.2	9	10.79	9.74	–	–	518	17	123	125	125				
		11PM	17.8	4	10.03	9.62	–	–	906	38	125	117	114				
SATURDAY																	
SUNDAY																	

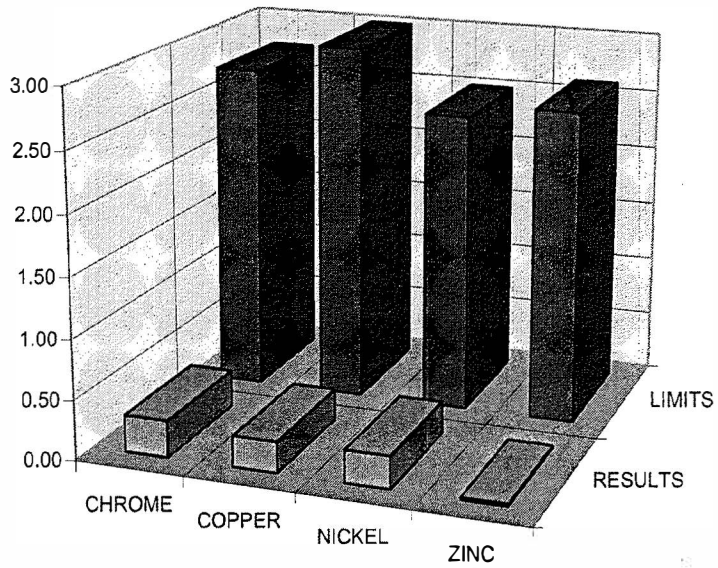
..\WOUT\500-0007, 03/04/99

AKC-0004867

JUNE
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
JUNE 6, 2010
GRAB M125367



ALASKAN COPPER WORKS
3200 FACILITY
JUNE 10, 2010
COMPOSITE M125400

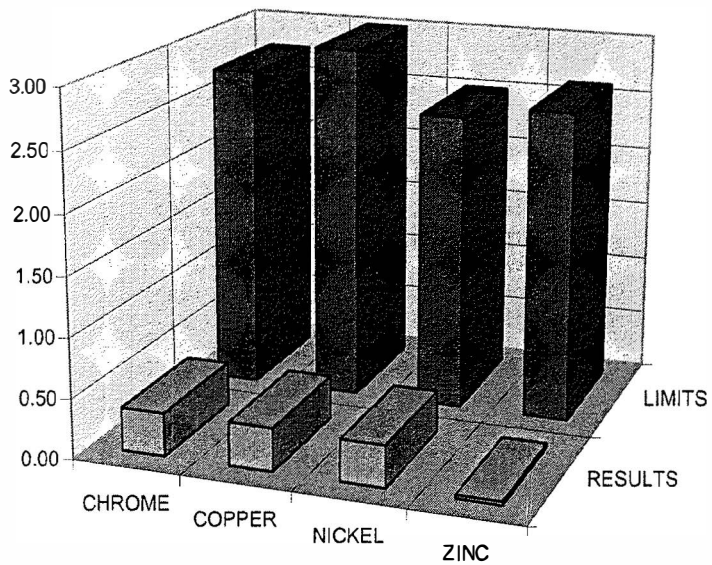
VISUAL REPRESENTATION OF THE LAB RESULTS

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

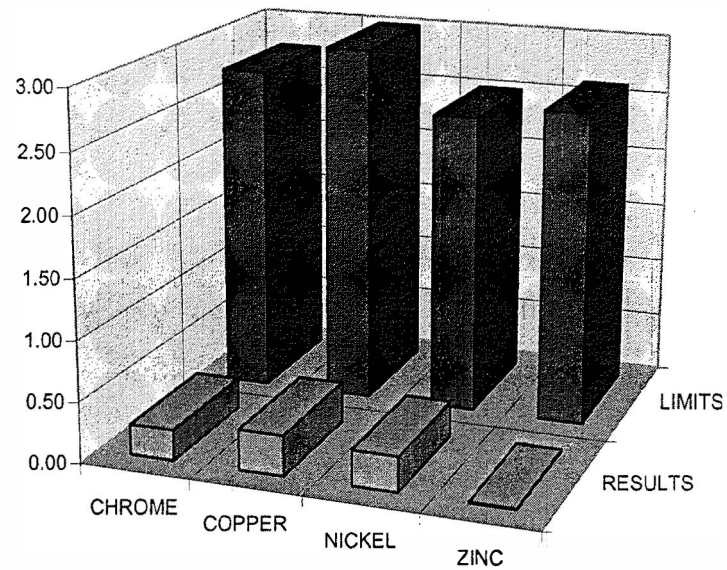
	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.20	0.29	0.26	0.02
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.31	0.26	0.27	0.02
LIMITS	2.75	3.00	2.50	2.61

JUNE
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
JUNE 17, 2010
COMPOSITE M125469



ALASKAN COPPER WORKS
3200 FACILITY
JUNE 24, 2010
COMPOSITE M05742

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	0.36	0.36	0.35	0.03
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.25	0.33	0.29	0.01
LIMITS	2.75	3.00	2.50	2.61