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-0004937

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

Please Specify Month & Year: **Month:** APRIL **2010** **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)	C	10.5	10.6		.61	.65			.50		.01			656	
2		10.3	10.7											1075	
3		---------	---------											---------	
4		---------	---------											---------	
5		10.1	10.3											1480	
6		10.0	10.3											1064	
7		10.2	10.7											1160	
(8)	C	10.4	10.7		.81	.79			.87		.05			1369	
9		10.5	10.7											1080	
10		---------	---------											---------	
11		---------	---------											---------	
12		10.3	10.5											1249	
13		10.1	10.5											899	
(14)	C	10.3	10.4		.49	.35			.40		.02			1608	
15		10.1	10.2											1260	
16		10.0	10.1											1530	
17		---------	---------											---------	
18		---------	---------											---------	
19		9.6	10.9											1044	
20		10.0	10.6											2266	
21		9.6	10.3											2176	
(22)	C	10.1	11.2		.44	.37			.45		.01			1597	
23		10.7	11.1											1341	
24		---------	---------											---------	
25		---------	---------											---------	
26		9.7	10.3											1116	
27		9.5	10.2											961	
28		10.0	10.1											1107	
(29)	C	9.8	10.9		.15	.15			.11		.01			723	
30		10.1	10.8											1227	
31	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------

Monthly Min pH	9.5	& Date	4-27-10	Total Monthly Flow (gallons)	27988
Monthly Max pH	11.2	& Date	4-22-10	Maximum Daily Flow	2266 & Date 4-20-10

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 5/7/10

PLEASE CIRCLE ALL PERMIT VIOLATIONS **Due Date:** **Monthly report is due by the 15th of each month.**

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AKC-0004938

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

Please Specify Month & Year: **Month:** APRIL **2010**

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															
3															
4															
5															
6															
7															
8															
9															
10															
11															
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26															
27															
28															
29															
30															
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.

James Brown 5/7/10

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.**

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	3/29	7 AM	2.2	14	12.16	10.58	–	–	827	66	96	96	129				16
		3 PM	2.2	12	9.53	10.30	–	–	527	1	111	106	131				
		11PM	2.2	8	11.38	10.32	–	–	1418	12	122	112	119				
TUESDAY	3/30	7 AM	2.3	8	10.02	10.62	–	–	1418	12	121	109	125				16
		3 PM	2.3	7	9.66	10.80	–	–	216	7	124	116	123				
		11PM	2.3	15	10.03	10.85	–	–	740	12	122	121	106				
WEDNESDAY	3/31	7 AM	2.1	15	10.61	10.75	–	–	740	12	122	119	123				16
		3 PM	2.0	14	9.97	10.70	–	–	656	25	123	121	121				
		11PM															
THURSDAY	4/1	7 AM	1.8	14	11.36	10.61	–	–	656	27	106	94	124				64
		3 PM	1.2	10	9.73	10.53	–	–	1075	39	118	102	124				
		11PM															16
FRIDAY	4/2	7 AM	1.2	10	9.54	10.57	–	–	1075	40	124	108	127				16
		3 PM	10.1	7	9.94	10.74	–	–	1480	22	119	114	126				
		11PM															
SATURDAY																	
SUNDAY																	

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

AKC-0004939

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	4-5-10	7 AM	10.1	7	9.39	10.14	–	–	1480	22	106	103	125				16
		3 PM	10.1	5	9.56	10.22	–	–	522	16	122	121	124				
		11PM	9.8	17	10.73	10.30	–	–	1064	38	127	111	108				
TUESDAY	4-6-10	7 AM	9.8	17	10.18	10.06	–	–	1064	38	126	116	129				16
		3 PM	9.6	15	9.69	10.32	–	–	242	3	121	128	128				
		11PM	9.6	10	9.60	10.35	–	–	985	20	127	115	109				
WEDNESDAY	4-7-10	7 AM	9.6	10	12.60	10.24	–	–	1160	30	121	117	122				64
		3 PM	9.6	8	11.44	10.77	–	–	800	2	126	119	125				
		11PM	9.1	5	10.42	10.66	–	–	1246	32	119	118	110				160 Flooding
THURSDAY	4-8-10	7 AM	9.1	7	9.91	10.46	–	–	1368	32	119	123	128				16
		3 PM	9.1	2	10.07	10.52	–	–	704	12	124	127	123				
		11PM	8.6	1	10.55	10.71	–	–	1080	39	122	117	107				
FRIDAY	4-9-10	7 AM	8.6	2	10.35	10.57	–	–	1080	39	126	124	129				16
		3 PM	8.6	13	10.74	10.57	–	–	684	12	118	118	129				
		11PM	8.3	12	9.95	10.77	–	–	1249	26	128	120	113				
SATURDAY																	
SUNDAY																	

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

AKC-0004940

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	4/12	7 AM	8.2	11	9.56	10.47	–	–	1219	26	106	103	122				16
		3 PM	8.2	10	9.55	10.51	–	–	187	6	126	120	121				
		11PM	5.0	8	9.97	10.31	–	–	810	28	122	120	119				Flowing
TUESDAY	4/13	7 AM	8.0	7	9.62	10.17	–	–	889	28	126	123	120				64
		3 PM	8.0	5	9.74	10.21	–	–	409	12	119	124	122				
		11PM	7.5	15	9.97	10.56	–	–	1608	44	124	122	115				16
WEDNESDAY	4/14	7 AM	7.5	15	9.75	10.41	–	–	1608	44	127	123	122				16
		3 PM	7.2	13	10.76	10.59	–	–	1260	25	118	118	118				
		11PM															
THURSDAY	4/15	7 AM	7.3	13	10.22	10.22	–	–	1260	25	126	117	120				16
		3 PM	6.4	7	10.00	10.11	–	–	1530	42	122	120	118				
		11PM															
FRIDAY	4/16	7 AM	6.5	7	9.63	10.05	–	–	1530	43	124	120	118				16
		3 PM	5.8	5	9.69	10.15	–	–	1040	19	121	126	112				
		11PM															
SATURDAY																	
SUNDAY																	

AKC-0004941

..\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° DAKITE TANK	REVETMENT LARGE RINSE	REVETMENT LARGE ACID	REVETMENT SMALL TANKS	COMMENTS, PROBLEMS, & REMARKS (W/D#)
MONDAY	4-19	7 AM	5.9	5	9.46	9.62	–	–	1044	26	108	111	119				64
		3 PM	5.0	14	10.03	10.96	–	–	1218	1	118	117	118				
		11PM	4.2	9	9.72	10.83	–	–	2266	47	121	117	118				16
TUESDAY	4-20	7 AM	4.3	8	10.27	10.68	–	–	2266	51	126	124	120				16
		3 PM	3.8	5	9.65	10.13	–	–	962	64	120	122	117				
		11PM	3.0	15	10.16	10.64	–	–	2059	98	125	125	115				FLOWING
WEDNESDAY	4-21	7 AM	3.8	15	9.85	9.56	–	–	2176	101	127	122	119				16 SENSAPHONE IS OFF
		3 PM	3.2	10	9.60	10.32	–	–	1125	20	120	125	120				
		11PM	3.2	8	9.52	10.19	–	–	1597	46	125	122	119				
THURSDAY	4-22	7 AM	3.0	8	11.22	10.70	–	–	1597	55	127	127	120				16 SENSAPHONE OFF
		3 PM	3.0	5	10.09	10.41	–	–	759	0	121	127	116				
		11PM	2.8	17	9.60	11.31	–	–	1341	17	125	118	115				
FRIDAY	4-23	7 AM	2.7	16		11.11	–	–	1341	160	121	119	127				64
		3 PM	2.7	14	9.71	10.98	–	–	372	3	123	123	115				
		11PM	2.7	8	9.98	10.76	–	–	1044	15	121	120	101				16 FLOWING TO MET
SATURDAY																	SENSAPHONE OFF
SUNDAY																	

AKC-0004942

\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° DAKITE TANK	REVETMENT LARGE RINSE	REVETMENT LARGE ACID	REVETMENT SMALL TANKS	COMMENTS,PROBLEMS,& REMARKS (W/O#)
MONDAY	4-26	7 AM	.7	8	10.06	10.75	—	—	1116	19	105	107	119				16 Forgot to Reset Shower Cycles
		3 PM	.4	7	10.99	9.99	-	\	1568	29	121	111	118				
		11PM	.2	5	9.83	9.66			2077	66	123	116	112				SENSAPHONE IS OFF
TUESDAY	4-27	7 AM	.2	5	10.46	9.55	—	—	2077	66	126	118	127				16 2077 / 1116 / 961
		3 PM	.00	3	11.99	9.93	—	—	601	12	121	116	118				
		11PM	10.2	13	11.25	10.21	-	—	1107	26	126	117	120				
WEDNESDAY	4-28	7 AM	10.3	13	10.97	10.13	—	—	1107	26	122	119	129				16
		3 PM	10.3	13	10.23	10.02	-	-	00	0	121	117	124				
		11PM	10.0	10	10.84	10.02	-	-	666	17	120	124	126				Flowing To MET.
THURSDAY	4-29	7 AM	10.0	10	12.10	9.88	—	—	723	26	125	127	126				16
		3 PM	10.0	8	10.53	9.93	-	.	409	3	122	124	124				
		11PM	9.5	5	12.05	10.97			1227	27	124	119	124				16
FRIDAY	4-30	7 AM	9.5	5	10.85	10.82	—	—	1227	27	126	122	125				16
		3 PM	9.5	2	10.21	10.37	-	\	991	23	119	118	123				
		11PM	8.9	10	11.07	10.12	—	—	1733	43	125	117	109				Flowing —
SATURDAY																	
SUNDAY																	

AKC-0004943

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

ALASKAN COPPER Works

Telephone: (206) 623-5800
Facsimile:
Stainless Products Division
(206) 382-7346
Fabrication Division
(206) 382-4306

Mailing Address:
Post Office Box 3546
Seattle, Washington 98124-3546
Express Delivery Address:
Stainless Products Division
3200 Sixth Avenue South
Seattle, Washington 98134-2106
Fabrication Division
3405 Sixth Avenue South
Seattle, Washington 98134-2109

April 12, 2010

Lydia Eng
King County
Industrial Waste Program
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658

Permit No. 7238-04 Composite Sampling Collection Methods.

Dear Ms. Eng:

In keeping with the requirements of Permit No. 7238-04 issued January 4, 2010. Alaskan Copper Works has developed a three part plan, with your guidance that we believe will satisfy the Composite Sampling Collection Method.

Step 1:
The relocation of the current sample site from the aisle way catch basin to the batch discharge tank piping system in the process control room. This will provide safe and secure sample site for King County, and Alaskan Copper Works will have an automated sampler.

Step 2:
The relocation of the current pH probe site from the aisle way catch basin to the batch discharge tank piping system in the process control room. This will provide pH monitoring for the sample site collection point.

Step 3:
The installation of a catch basin lock to ensure the security of the aisle way catch basin.

Enclosed you will find drawing depicting the proposed improvements to comply with the sampling requirements.

If you have any questions or comments please call me at (206) 571-6033.

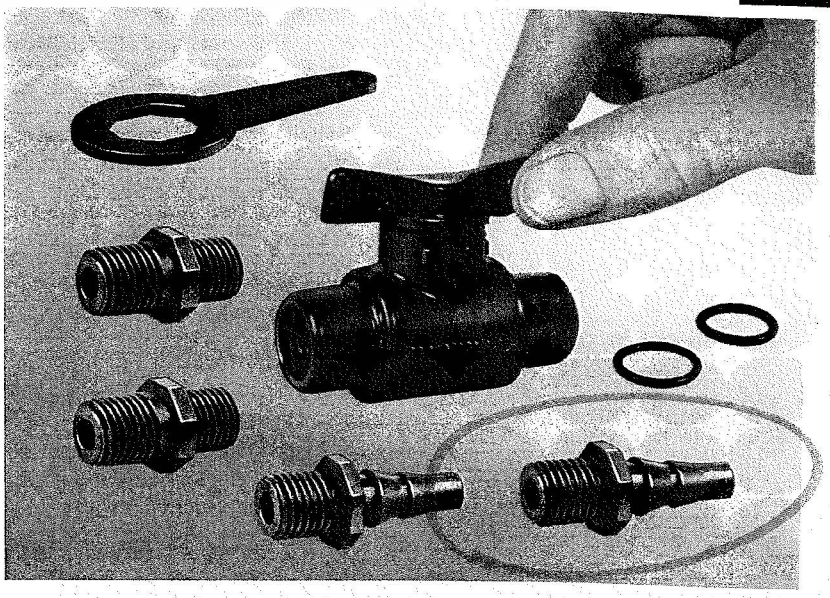
Sincerely,

Gerald A. Thompson
Environmental Assistant
Alaskan Copper Works

HAYWARD UNIVERSAL VALVE

SIX-IN-ONE VALVE

This part is easily adaptable to any piping connection, since each valve comes complete with all end connections, giving you a total of six combinations in one valve. Just attach the end connections you need–no adhesives are required. The Six-In-One is ideal for laboratories, monitoring systems and original process equipment.



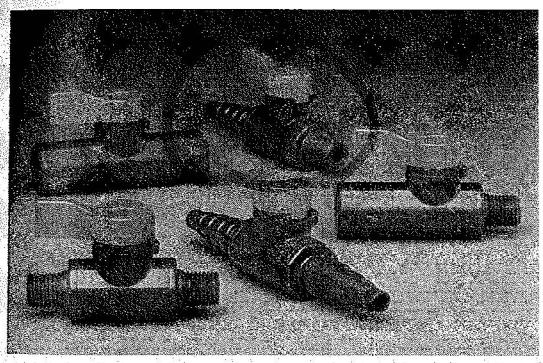
SIX END CONNECTION COMBINATIONS:

1. FPT x FPT
2. FPT x MPT
3. FPT x Hose
4. MPT x MPT
5. MPT x Hose
6. Hose x Hose

ORDER:
5310-002 UNIVERSAL LABCOCK VALVE, 1/4" $11.60

MATERIALS OF CONSTRUCTION

Body & end connections, PVC	1/4" male NPT
O-rings, EPDM	1/4" female NPT
Ball Seals, EPDM	1/4"-3/8" I.D.
Hex wrench, PVC	Tubing adapter



LAB COCK VALVE

The product includes a calibrated flow indicator for easy reading. The 1/4-turn operation allows for precision fingertip flow control. The valve's pressure rating is 150 psi up to 120˚F (water, non-shock). You'll find it's ideal for process control monitoring and as a sampling valve, and the wide choice of models permits all types of hose or thread connections. Special colors are also available on custom orders with minimum quantities.

- **Size:** 1/4" only (pipe thread)
- **Bodies:** PVC
- **Seats:** EPDM
- **Seal:** EPDM

ORDER: 5309-(Size No.) LABCOCK VALVE $11.00

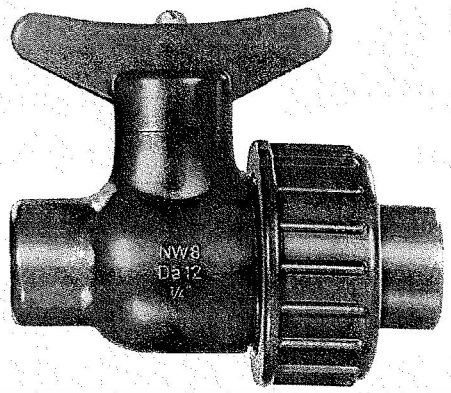
-002 MPT x MPT
-102 MPT x hose
-202 hose x hose
-302 FPT x FPT
-402 MPT x FPT

MINI BALL VALVE

+GF+ 1/4" BALL VALVES

These full-flow, rugged valves have female socket or threaded connections.

ORDER:
5040-002 MINI BALL VALVE (Socket) $31.92
5040-202 MINI BALL VALVE (Threaded) 31.92



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Phone 206-263-3000 / FAX 206-263-3001

AKC-0004946

Company Name: ALASKAN COPPER WORKS-Marginal Way **Sample Site No.** A4010 **Permit/DA No.:** 7238-04

Please Specify Month & Year: **Month:** APRIL **2010** **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)	C	10.5	10.6		.61	.65			.50		.01			656	
2		10.3	10.7											1075	
3		---	---											---	
4		---	---											---	
5		10.1	10.3											1480	
6		10.0	10.3											1064	
7		10.2	10.7											1160	
(8)	C	10.4	10.7		.81	.79			.87		.05			1369	
9		10.5	10.7											1080	
10		---	---											---	
11		---	---											---	
12		10.3	10.5											1249	
13		10.1	10.5											899	
(14)	C	10.3	10.4		.49	.35			.40		.02			1608	
15		10.1	10.2											1260	
16		10.0	10.1											1530	
17		---	---											---	
18		---	---											---	
19		9.6	10.9											1044	
20		10.0	10.6											2266	
21		9.6	10.3											2176	
(22)	C	10.1	11.2		.44	.37			.45		.01			1597	
23		10.7	11.1											1341	
24		---	---											---	
25		---	---											---	
26		9.7	10.3											1116	
27		9.5	10.2											961	
28		10.0	10.1											1107	
(29)	C	9.8	10.9		.15	.15			.11		.01			723	
30		10.1	10.8											1227	
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Monthly Min pH	9.5	& Date	4-27-10
Monthly Max pH	11.2	& Date	4-22-10
Total Monthly Flow (gallons)	27988		
Maximum Daily Flow	2266	& Date	4-20-10

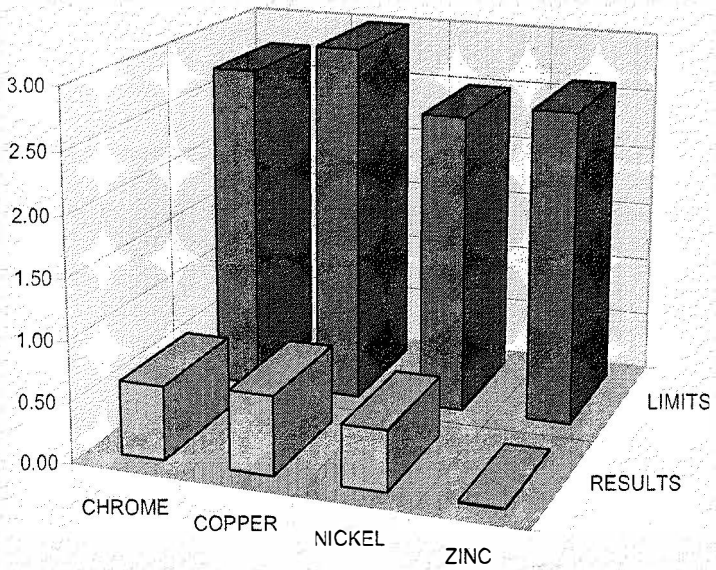
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

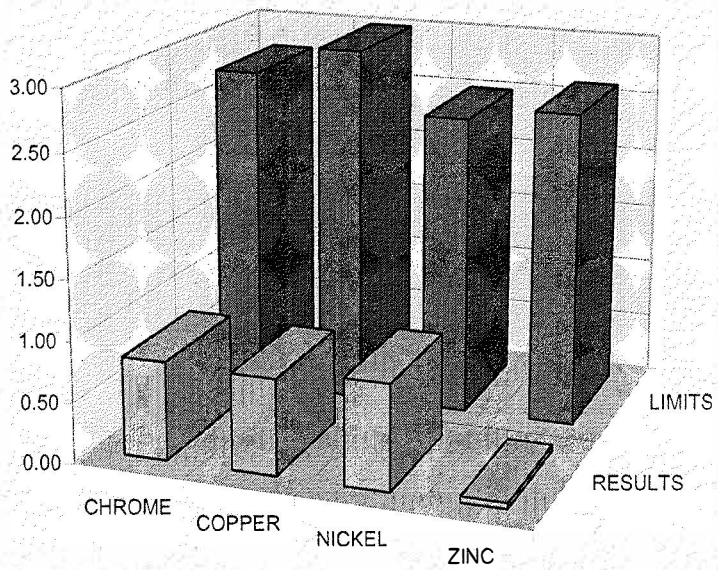
PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

APRIL
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
APRIL 1, 2010
COMPOSITE M124873



ALASKAN COPPER WORKS
3200 FACILITY
APRIL 8, 2010
COMPOSITE M124949

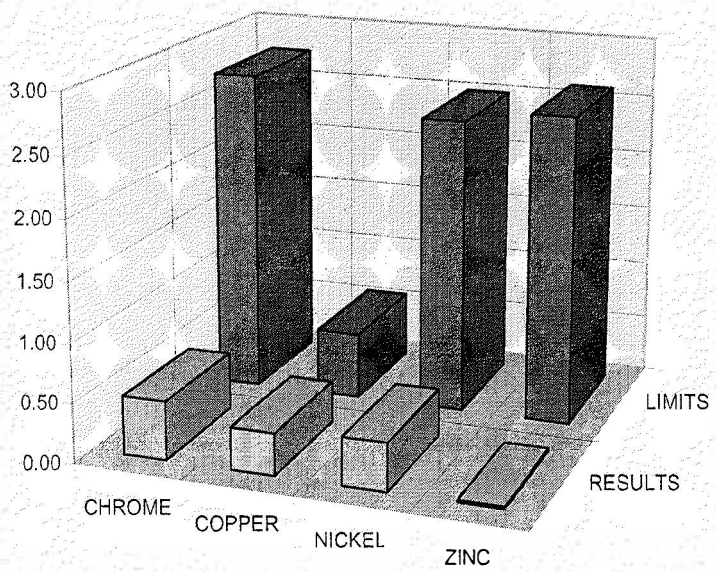
VISUAL REPRESENTATION OF THE LAB RESULTS

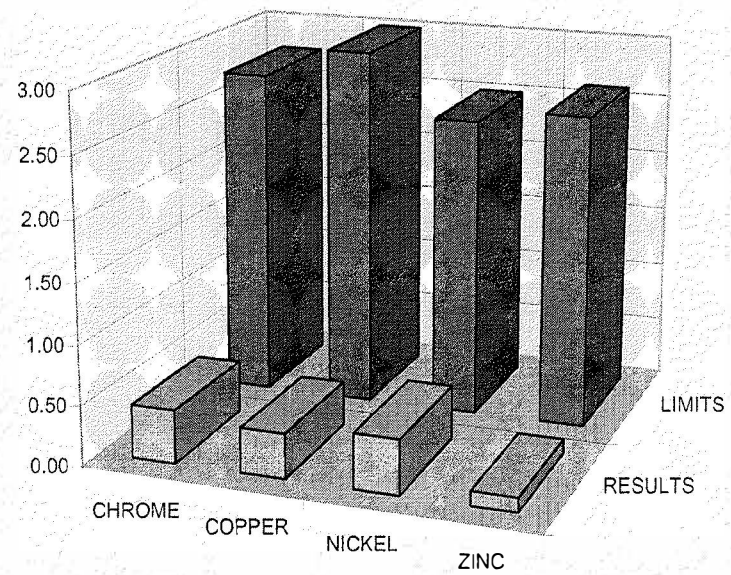
NOTE: ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.61	0.65	0.50	0.01
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.81	0.79	0.87	0.05
LIMITS	2.75	3.00	2.50	2.61

APRIL
METRO LIMITS





ALASKAN COPPER WORKS
3200 FACILITY
APRIL 14, 2010
COMPOSITE M05485

ALASKAN COPPER WORKS
3200 FACILITY
APRIL 22, 2010
COMPOSITE M05521

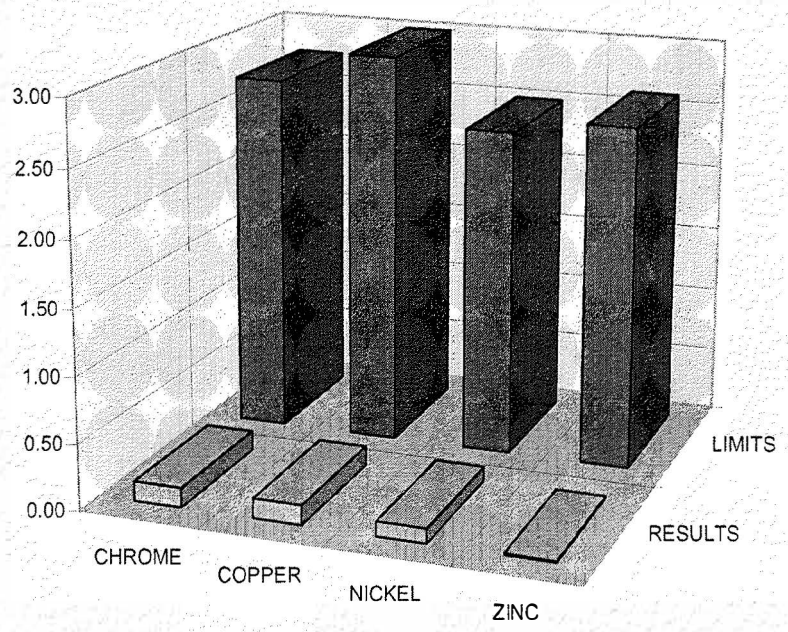
VISUAL REPRESENTATION OF THE LAB RESULTS

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

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.49	0.35	0.40	0.02
LIMITS	2.75	0.57	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.44	0.37	0.45	0.12
LIMITS	2.75	3.00	2.50	2.61

APRIL
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
APRIL 29, 2010
COMPOSITE M125105

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	0.15	0.15	0.11	0.01
LIMITS	2.75	3.00	2.50	2.61