METRO

Waste Discharge Self Monitoring Report

(Report On Only Those Parameters Specified By Your Permit)

DPH

Mail to: Metro, Industrial Waste Section
821 Second Avenue, M.S. ~~X~~ 14B, Seattle, WA 98104

Company Name ALASKAN COPPER WORKS-6th AVE. SOUTH Month JAN 1990 No. of Employees (per day) Average _____ Maximum _____

Permit No. 7201 Station No. A 4009 Site No. N/A All units mg/l unless otherwise noted Industry Type _____

SAMPLE DATES (Circle)	SAMPLE TYPE (Daily, Composite, or Grab)	pH MIN	pH MAX	SETTLE SOLIDS (ml/l)	OIL & GREASE	Arsenic, As	Aluminum, Al	Cadmium, Cd	Chromium, Cr (Total)	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Selenium, Se	Silver, Ag	Zinc, Zn	Total Metals	Cyanide, CN,A	Cyanide, CN,T	Fluoride, F	Phosphorus, P				TTO	Flow (GPD) Total	Flow (GPD) Industrial	Flow (GPD) Other	Comment and Explanation of Any Violations
1																													
2		7.4	7.4																										
3																													
4		7.4	7.4																										
5																													
6																													
7																													
8																													
9																													
10																													
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25																													
26																													
27																													
28																													
29																													
30																													
31																													
Min																													
Max																													
Average																													

NOT IN USE

Please Circle all Permit Violations

I certify that I am familiar with the information contained in this report and that to the best of my knowledge such information is true, complete and accurate. I am

Signature of Principal Executive or A. thorized Agent

Comments: _____

AKC-0014826

METRO

Waste Discharge Self Monitoring Report

(Report On Only Those Parameters Specified By Your Permit)

Mail to: Metro, Industrial Waste Section
821 Second Avenue, M.S. 14, Seattle, WA 98104

Company Name: ALASKAN COPPER WORKS-6th AVE. SOUTH

Month: JAN 1990

Permit No.: 7238 Station No.: A4010 Site No.: N/A

No. of Employees (per day) Average: Maximum:

All units mg/l unless otherwise noted Industry Type:

SAMPLE DATES (Circle)	SAMPLE TYPE (Daily, Composite, or Grab)	pH MIN	pH MAX	SETTABLE SOLIDS (ml/l)	OIL & GREASE	Arsenic, As	Aluminum, Al	Cadmium, Cd	Chromium, Cr (Total)	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Selenium, Se	Silver, Ag	Zinc, Zn	Total Metals	Cyanide, CN,A	Cyanide, CN,T	Fluoride, F	Phosphorus, P				TTO	Flow (GPD) Total	Flow (GPD) Industrial	Flow (GPD) Other	Comment and Explanation of Any Violations
1																													
2		9.4	9.4																										
3																											~~0~~		
4		11.2	12.4						.45	.33			.42			.043													
5																											2592		
6																													
7																													
8																													
9		2.5	13.1																										
10																											~~0~~		
11		11.2	11.8																										
12																											4256		
13																													
14																													
15																													
16		10.0	11.6																										
17																											1646		
18		11.8	12.2						1.8	.29			.94			.024													
19																											1553		
20																													
21																													
22																													
23		10.0	12.0																										
24																											346		
25		10.4	12.2																										
26																											84		
27																													
28																													
29																													
30		11.8	12.4																										
31																											2107		
Min																													
Max																													
Average																													

Please Circle all Permit Violations

I certify that I am familiar with the information contained in this report and that to the best of my knowledge such information is true complete and accurate. I am aware of significant penalties for submitting false information.

J. Brown
Signature of Principal Executive or Authorized Agent

Comments:

AKC-0014827

WEEKLY EFFLUENT REPORT FOR 3200 6th ave. s.

starting date 1/1/90

Ending date 1-8-90 Technician Raphael / Don

TOTAL NUMBER OF GALLONS USED.

CAUSTIC - 11.0 x1.7 - WEEKLY.

BARRELL MONITOR IN INCHES. 8.0 - 4 = 4 = 4.0 + 7.0 = 11

21.0 - 14 = 7.0

Monday

Check & Record PH of Sumps
Check & Record PH of Hoppers
Drain & Clean Hoppers
Check & Record Caustic & Betaglo
Check & Record Cycles & Flowmeter
Blowdown Boiler
Set timer

2000. +

1500. +

TUESDAY

Check & Record PH of Hoppers
Check & Record PH of Sumps
Drain & clean Hoppers
Check & Record Caustic & Betaglo.
Check & Record cycles & Flowmeter
Blowdown Boiler Set timer

1000. +

500. +

WEDNESSDAY

Check & Record PH of Hoppers
Check & Record PH of Sumps
Drain & Clean Hoppers
Check & Record Caustic & Beta-
Check & Record Flometer & Cycle
Check & Reset Low Alarm PH
Clean screen, Blowdown Boiler
Set timer

	MON	TUE	WED	THU	FRI
CYCLES.	43.0	39.0	37	96	14
DAILY INCHES	8.0	5.0	4+17=21	14	14
HOPPER A pH.	11.0	11.0	11.0	11.0	10.0
HOPPER B pH.	11.0	11.0	11.0	12.0	10.0
Betaglo c	0	27.0	24.0	18.0	0
flow meter	0	0	0	2592	3428

THURSDAY

Check & Record PH of Hoppers
Check & Record PH of Sumps
Drain & Clean Hoppers
Check & Record Caustic & Betaglo levels
Check & Record Flowmeter & Cycle Reading
Check & Reset Low Alarm PH
Clean the screen and flowmeter
Blowdown the Boiler Set timer

FRIDAY

Check & Record PH of Hoppers
Check & Record PH of Sumps
Drain & Clean Hoppers
Check & Record Caustic & Betaglo
Check & Record Flowmeter & cycles Reading
Clean the Screen, Clean flowmeter
~~Blowdown Boiler Set timer~~

AKC-0014828

	TIME	CAUSTIC	(1.7)	FLOC LEVEL	PH-Reading PH-Paper SUMP A	SUMP B	SUMP A	SUMP B	FLOWMETER	CYCLES	SAMPLE I.D.	PH-Paper HOPPER A	HOPPER B
ON. 1-1-90	7:30a												
	3:30p			HOLIDAY									
	11:30p												
ES. 1-2-90	7:30a	8.0		32 Refill	5.3	10.8	/	11.0	005	41	/	11.0	11.0
	3:30p	7.0		29	8.3	9.1	11.0	11.0	003	16	/	11.0	11.0
	11:30p												
D. 1-3-90	7:30a	5.0		27	9.3	9.0	/	10.0	004	39	/	11.0	11.0
	3:30p	4.0		26	8.1	8.6	/	10.0	006	15	Still Retro 10:30	10.0	10.0
	11:30p	5.0		25	8.9	9.5	/	10.	07	26	2350	11.	10.
UR. 1-4-90	7:30a	4 Refill 21		24	/	/	/	11.0	00	37	/	11.0	11.0
	3:30p	~~[illegible]~~											
	11:30p	5		21	12.7	7.9	/	14.	2008/96		2315	13	13.
I. 1-5-90	7:30a	14.		18	9.6	13.1	/	13.0	2592	96	/	13.0	13.0
	3:30p												
	11:30p	14.0		14.5	12.2	6.8	/	7	2610	007	2350	10	11.

#1 change bags 1-5-90
need screen in the vault

AKC-0014829

ALASKAN COPPER CO.
WEEKLY EFFLUENT REPORT FOR 3200 6th ave. s.

starting date 1-8-90

Technician Raphael / Don

Ending date 1-15-90

TOTAL NUMBER OF GALLONS USED.
CAUSTIC - 7.0 x1.7 11.9 - WEEKLY.

BARRELL MONITOR IN INCHES. 14.0 - 7.0 = 7.0

Monday

Check & Record PH of Hoppers
Check & Record PH of Sumps
Drain & Clean Hoppers
Check & Record Caustic & Betafloc
Check & Record Cycles & Flowmeter
Blowdown Boiler, Clean Screen
Clean Flowmeter, Set timer

2000. +

1500. +

TUESDAY

Check & Record PH of Hoppers
Check & Record PH of Sumps
Drain & Clean Hoppers
Check & Record Cycles & Betafloc
Check & Record Caustic & Flowmeter
Blowdown Boiler, Set timer
clean Screen

1000. +

500. +

WEDNESSDAY

Check & Record PH of Hoppers
Check & Record PH of Sumps
Drain & Clean Hoppers
Check & Record Cycles & Beta
Check & Record Caustic & Flowmeter
Blowdown Boiler - Reset Flowmeter + cycle
clean Process Screen
clean Flowmeter Set timer

	MON	TUE	WED	THU	FRI
CYCLES.	10.0	~~0~~	26.0	20.0	24.0
DAILY INCHES	13.0	~~0~~ 13	11.0	9.0	7.0
HOPPER A pH.	10.0	3.0	12.0	11.0	11.0
HOPPER B pH.	10.0	3.0	12.0	11.0	11.0
Betafloc	24.0	15	13	9.0	14
Flowmeter	~~0~~	~~0~~	4918	4256	4924

THURSDAY

Check & Record PH of Sumps
Check & Record PH of Hoppers
Drain & Clean The Hoppers
Check & Record Caustic & Betafloc
Check & Recor Cycles & Flowmeter
Clean the Screen, Blowdown Boiler
Clean Flowmeter, Set timer @ H.

FRIDAY

Check & Record PH of Hoppers
Check & Record PH of Sumps
Drain & Clean Hoppers
Check & Record Caustic & Betafloc
Check & Record Cycles & Flowmeter
Clean the Screen, Blowdown Boiler
~~Set time & Clean the Surrounding~~

AKC-0014830

	TIME	CAUSTIC	(1.7)	FLOC LEVEL	PH-Reading PH-Paper SUMP A	SUMP B	SUMP A	SUMP B	FLOWMETER	CYCLES	SAMPLE I.D.	PH-Paper HOPPER A	HOPPER B
ON. 1-8-90	7:30a	14.0		32		11.2	/	11.0	3428	14	/	10.0	10.0
	3:30p												
	11:30p	NO CLIPBOARD THIS DAY											
JES. 1-9-90	7:30a	13.0		24	~~47~~	47	/	5.0	0	13	/	10.0	10.0
	3:30p	13		21.0	7.3	7.2	6.0	11.0	58 417	000	/	9.0	11.0
	11:30p	NO CLIPBOARD This day											
ED. 1-10-90	7:30a	13.0		15									
	3:30p	13		15	6.0	16.9			2608	02	/	10.0	10.0
	11:30p	12		14	12.6	7.6	/	12	4501	919	2300	12	12
UR. 1-11-90	7:30a	11.0		13	9.3	12.5		11.0	4918	26	/	12.0	12.0
	3:30p	10.0		13	8.0	11.8	/		2911		/	9.0	11.0
	11:30p	10		9	12.2	8.5	/	6	3958	15	2325	12.	12.
I. 1-12-90	7:30a	9.		9/32	8.8	12.2	/	11.0	4256	20	/		11.0
	3:30p	9.0		29	7.6	11.8	9.0	11.0	2538	4	/	11.0	11.0
	11:30p	9		27	12.1	5.6	/	7	3667	12	2315	9.	10.

1/10/90 – work in Progress so no ready early morning

AKC-0014831

WEEKLY EFFLUENT REPORT FOR 3200 6th ave. s.

starting date 1-15-90

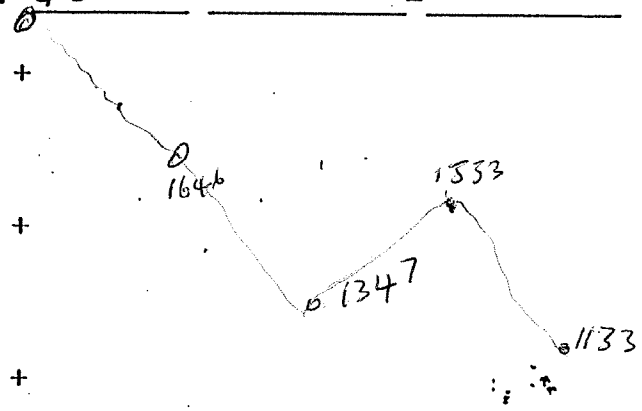
Ending date 1-22-90

Technician Raphael / Don

TOTAL NUMBER OF GALLONS USED.

CAUSTIC - x1.7 - WEEKLY.

BARRELL MONITOR IN INCHES. 18.0 - _____ = _____



Monday

Check & Record PH of Hoppers
check & Record PH of Sumps
Drain & Clean Hoppers
Check & Record Caustic & Betafloc
Check & Record Cycles & Flowmeter
Check & Reset Flowmeter
Blowdown Boiler Fill Boiler
Clean Flowmeter, Set time

TUESDAY

Set flow speed -
Check & Record PH of Hoppers
Check & Record PH of Sumps
Drain & Clean Hoppers
Check & Record Caustic & Betafloc
Check & Record Cycles & Flowmeter
Clean the Screen
Blowdown Boiler Set time

WEDNESSDAY

1. Took all reading & Recorded Same
2. Hopper A & B Drained into Sediment bags. 3 Cleaned Hopper A & B. 4. Cleaned and Flushed effluent to Metro Plumbing.

	MON	TUE	WED	THU	FRI
CYCLES.	32.0	20	20	90	45
DAILY INCHES	13	16	15	12	11.0
HOPPER A pH.	12.0	11.0	0	11.0	10
HOPPER B pH.	12.0	9.0	0	11.0	11.0
Betafloc	9.0	32	24	19	0
Flometer	2190	1646	1347	1558	1133

THURSDAY

Check & Record PH of Hoppers
Check & Record PH of Sumps
Drain & Clean Hoppers
Check & Record Caustic & Betafloc
Check & Record Cycles & Flowmeter
Blowdown Boiler clean Screen
Clean the Flowmeter Set time

FRIDAY

Check & Record PH of Hoppers
Check & Record PH of Sumps
Drain & Clean Hoppers
check & Record cycles & Betafloc
check & Record Caustic & flowmeter
Blowdown Boiler clean Screen;
clean Flowmeter, Set time

	TIME	CAUSTIC	(1.7)	FLOC LEVEL	PH-Reading PH-Paper SUMP A	SUMP B	SUMP A	SUMP B	FLOWMETER	CYCLES	SAMPLE I.D.	PH-Paper HOPPER A	HOPPER B
ON.	7:30a	7.0		14.0	9.4	12.4	10.0	12.0	4926	24	/	11.0	11.0
	3:30p	15			7.2	11.2		10.0	1329	7	/	10.0	10.0
	11:30p	15.0		10	12.2	8.1	/	11	2190	26	2315	11.	10.
JES.	7:30a	13.0		9	6.7	12.5	/	12.0	2190	32	/	12.0	12.0
	3:30p												
	11:30p												
CD.	7:30a	16		32	8.4	11.1	/	11.0	1646	20	/	11.0	9.0
	3:30p	16		29	5.5	12.5	12.0	12.0	196	6.0	/	12.0	12.0
	11:30p	16		27	12.1	8.7		12	1320	11.	23	12.	11.
IUR.	7:30a	15		24	5.2	11.7	/	11.0	1340	20	/	12.0	12.0
	3:30p												
	11:30p	12		19	12.5	6.7	/	11.	1553	26	2336	11.	12.
I.	7:30a	12.0		18	12.1	6.9	11.0	11.0	1558	40	/	11.0	11.0
	3:30p												
	11:30p	11		15	12	6.4		11	1530	23	2380	11.	11.

AKC-0014833

WEEKLY EFFLUENT REPORT FOR 3200 6th ave. s.

starting date 1-22-90

Ending date 1-29-90

Technician Raphael/Don

TOTAL NUMBER OF GALLONS USED.

CAUSTIC - 6.0 x1.7 10.20 WEEKLY.

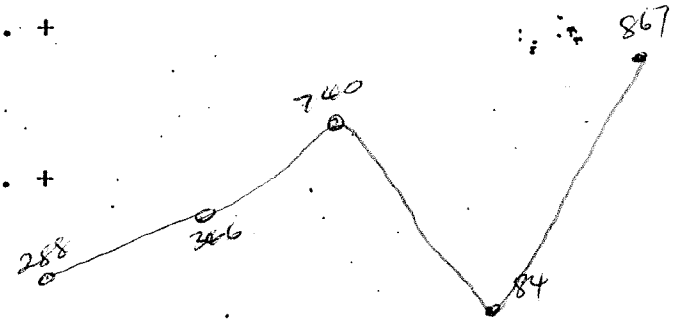
BARRELL MONITOR IN INCHES. 11.0 - 9=2+4 = 6.0

Monday

Check & Record PH of Hoppers 2000. +
Check & Record PH of Sumps
Drain & clean Hoppers
Check & Record Caustic & Betafloc
Check & Record Cycles & Flowmeter 1500. +
Blowdown Boiler
Clean screen, Set time

TUESDAY

Check & Record PH of Hoppers 1000. +
Check & Record PH of Sumps
Drain & Clean Hoppers
Check & Record Caustic & Betafloc
Check & Record Cycles & Flowmeter. 500. +
Check & Reset Low Alarm PH
Blowdown boiler, Clean screen.
Set time



WEDNESSDAY

Check & Record PH of Sumps
Check & Record PH of Hoppers
Drain & Clean Hoppers
Check & Record Caustic & Betafloc
Check & Record Cycles & Flowmeter
Check PH Calibration
Clean Screen, Set time

	MON	TUE	WED	THU	FRI
CYCLES.	34	17.0	33.0	30	13
DAILY INCHES	10	9.0+11	19.0	17.0	16
HOPPER A pH.	11.0	11.0	9.0	9	4.0
HOPPER B pH.	11.0	12.0	11.0	10	4.0
BETA FLOC	29.0	24	20	18	13.0
Flowmeter	288	346	740	84.0	867

THURSDAY

Check & Record PH of Hoppers
Check & Record PH of Sumps
Drain & Clean Hoppers
Check & Record Caustic & Betafloc
Check & Record Cycles & Flowmeter
Check Boiler Temp
Clean Screen, Set time

FRIDAY

Check & Record PH of Hoppers
Check & Record PH of Sumps
Drain & Clean the Hoppers
Check & Record Caustic & Betafloc
Check & Record Cycles & Flowmeter
Clean the Screen, Set timer
Clean Surrounding
Reset Low Alarm PH

AKC-0014834

	TIME	CAUSTI	(1.7)	FLOC LEVEL	SUMP PH A	SUMP PH B	SUMP A	SUMP B	FLOWMET	CYCLES	SAMPLI I.D.	HOPPER A	HOPPER B
ON.	7:30a	11.0		0/32.0	8.9	ELL	11.0	10.0	1133	45	/	10.0	11.0
1-22-90	3:30p	10.0		30	12.0	12.0	/		288	12.0	/	10.0	10.0
	11:30p	10.		29	12.2	11.5	/	11	288	28	2330	10.	11.
ES.	7:30a	10		29	12.1	12.0	10	11.0	288	34	/	11.0	11.0
1-23-90	3:30p	10			12.0	11.0	/		274				9.4
	11:30p			27	12.2	10.6	2	/	346	17	2315	10	11
D.	7:30a	9.0		24.0	4.9		5.0	12.0	346	17	/	11.0	12.0
1-24-90	3:30p	9+11 20		24	/	10.0		10.0	/	/	/	10.0	10.0
	11:30p	19		21	10.5	11.1	T	/	740	27	2330	11	8
UR.	7:30a	19		20	8.1	11.3	/		740	33	/	9.0	11.0
1-25-90	3:30p	19.0		20	8.8	11.9	/	11.0	84	12	/	10	11.0
	11:30p	18.		18.	12.4	22.4	14		84	27	2325	10	12.
I.	7:30a	17.		18.0	7.8	11.5		10.0	84	30	/	9.0	10.0
	3:30p	17.0			11.8	11.2	/	11.0	153	7.0	/	11.0	11.0
	11:30p	16.0		18.	11.7	11.4	/	12	0867	13	2316	11.0	11.0

1/25/90 = Changed Bags 6:30-9:30 Replaced Dom. Replaced Dom Probes Changed Sump 6:30-8:30

1/23/90 - Pumped Out

1/22/90 Replaced Process Probe amplifier (GAIN) Dom

1-22-90 Chart Reading 2.5 pH PH Controller output reading ELL Chart panel off and start it on the Ell will Disappear and Display Right PH 11.4 both on the chart and on Reading THE Timing is still correct on the chart Now Time is 8:00 AM. Chart reading is at 8:00 exact.

AKC-0014835

.00002 3½ in/sec.
.00001 = 9 sec.

	TIME	CAUSTIC	(1.7)	FLOC LEVEL	PH-Reading PH-Paper SUMP A	SUMP B	SUMP A	SUMP B	FLOWMETER	CYCLES	SAMPLE I.D.	PH-Paper HOPPER A	HOPPER B
ON.	7:30a	16.0		18.5	11.1	11.7	11.0	11.0	794	043	1 2 3 4 2 6 0 3	10.0	12.0
	3:30p												
	11:30p	15.		13.	12.1	8.4	/	10 /	0218	010	2322	9	12
UES.	7:30a	14.0		10.0	12.1	11.8	12.0	11.0	718	17	1-12 26020	12.0	12.0
	3:30p	21		30.0	12.0	12.1	12.0	12.0	237	06		12.0	12.0
	11:30p	21.		29.	12.7	11.0 ~~13.0~~	12.	12.	0366	09	2230	12.	13.
ED.	7:30a	21.		27	11.9	12.4	12.0	12.0	476	12	0715	12.5 11.9	12.5 12.5
	3:30p	21		27	12.0	11.8	12.0	12.0	21	0		12.0	12.0
	11:30p	21		24.3	6.8	5.9	/ 7	7.0	021	0	2315	7.0	6.0
UR.	7:30a	21		22.0	11.5	5.5	11.5	5.5	21	13	Temp 134		
	3:30p			22.	12.2	11.							
	11:30p	15		22.	12.2	11.4		13	0	010	146	12	13
I.	7:30a	18.0		22.5	11.2	11.9	11.0	11.0	972	19	9	11.0	12.0
	17:30p	18		18	11.6	7.4			0	06	2380	10	10

BIC switch for Boiler has a short having problems. Started fire.

2348. Shut down boiler to hot

23:35. Boiler shut down @ floc

AKC-0014837