Industrial Waste Monthly Self-Monitoring Report

King County

Send to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

AKC-0003311

Company Name: ALASKAN COPPER WORKS 6TH AVE. S. **Sample Site No.** A-4010 **Permit/DA No.:** 7238-5

Please Specify Month & Year: **Month:** NOVEMBER **2013** **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)	Nonpolar Fats, Oils, & Grease (Average of 3 grabs)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1		10.2	10.4											919	
2		—	—											—	
3		—	—											—	
4		10.0	10.2											633	
5		9.9	10.8											949	
6		10.5	10.7											1125	
(7)	C	10.4	10.4		.28	.19								1065	
8		10.2	10.4											949	
9		—	—											—	
10		—	—											—	
11		10.4	10.8											713	
12		10.3	10.8											1133	
13		10.0	10.2											1096	
(14)	C	10.0	10.2		.29	.35								692	
15		10.4	10.7											881	
16		—	—											—	
17		—	—											—	
18		10.1	10.6											1011	
19		10.6	10.6											1208	
20		10.5	10.5											808	
(21)	C	10.2	10.4		.40	.44			.42		.02			297	
22		10.1	10.3											1033	
23		—	—											—	
24		—	—											—	
25		10.0	10.4											714	
26		9.9	10.3											1500	
(27)	C	10.2	10.6		.25	.30			.31		.05			1217	
28		—	—											—	THANKS
29		—	—											—	GIVING
30		—	—											—	WEEK-END
31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

NOV 2013

Monthly Min pH	9.9	& Date	11-5-13	Total Monthly Flow (gallons)	17943
Monthly Max pH	10.8	& Date	11-5-13	Maximum Daily Flow	1500 & Date 11-26-13

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 12/10/13

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

King County

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AKC-0003312

Company Name: ALASKAN COPPER WORKS 6TH AVE. S. **Sample Site No.** A-4010 **Permit/DA No.:** 7238-5

Please Specify Month & Year: **Month:** NOVEMBER **2013** **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)	Nonpolar Fats, Oils, & Grease (Average of 3 grabs)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1		10.2	10.4											919	
2		—	—											—	
3		—	—											—	
4		10.0	10.2											633	
5		9.9	10.8											949	
6		10.5	10.7											1125	
(7)	C	10.4	10.4		.28	.19			.18		.01			1065	
8		10.2	10.4											949	
9		—	—											—	
10		—	—											—	
11		10.4	10.8											713	
12		10.3	10.8											1133	
13		10.0	10.2											1096	
(14)	C	10.0	10.2		.29	.35			.32		.01			692	
15		10.4	10.7											881	
16		—	—											—	
17		—	—											—	
18		10.1	10.6											1011	
19		10.6	10.6											1208	
20		10.5	10.5											808	
(21)	C	10.2	10.4		.40	.44			.42		.02			297	
22		10.1	10.3											1033	
23		—	—											—	
24		—	—											—	
25		10.0	10.4											714	
26		9.9	10.3											1500	
(27)	C	10.2	10.6		.25	.30			.31		.05			1217	
28		—	—											—	THANKS
29		—	—											—	GIVING
30		—	—											—	WEEK-END
31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Monthly Min pH	9.9	& Date	11-5-13	Total Monthly Flow (gallons)	17943
Monthly Max pH	10.8	& Date	11-5-13	Maximum Daily Flow	1500 & Date 11-26-13

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Signature of Principal Executive or Authorized Agent

Date 12/10/13

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AKC-0003313

Company Name: ALASKAN COPPER WORKS E. MARGINAL WAY **Sample Site No.** A-4009 **Permit/DA No.:** 7201-4

Please Specify Month & Year: **Month:** NOVEMBER **2013** **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)	Nonpolar Fats, Oils, & 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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25															
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

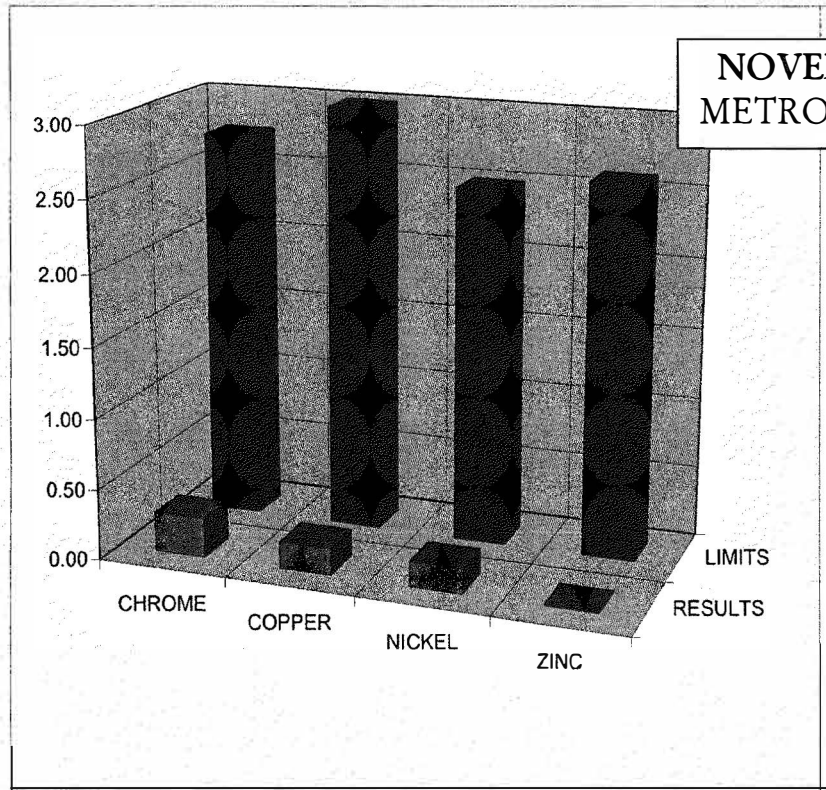
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

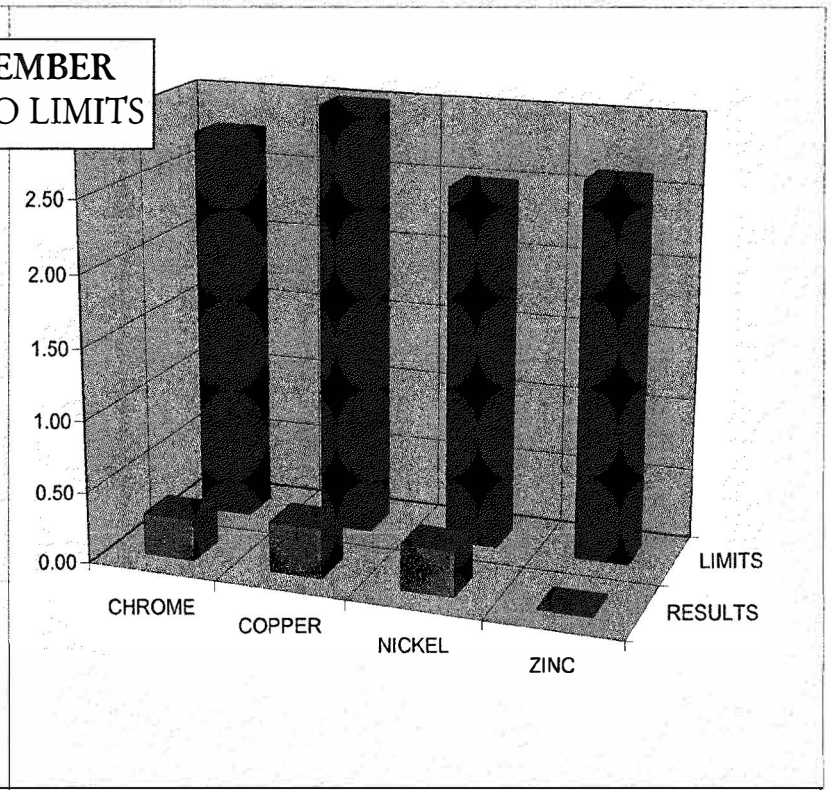
Signature of Principal Executive or Authorized Agent

12/10/13
Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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





ALASKAN COPPER WORKS
3200 FACILITY
NOVEMBER 7, 2013
COMPOSITE M001239

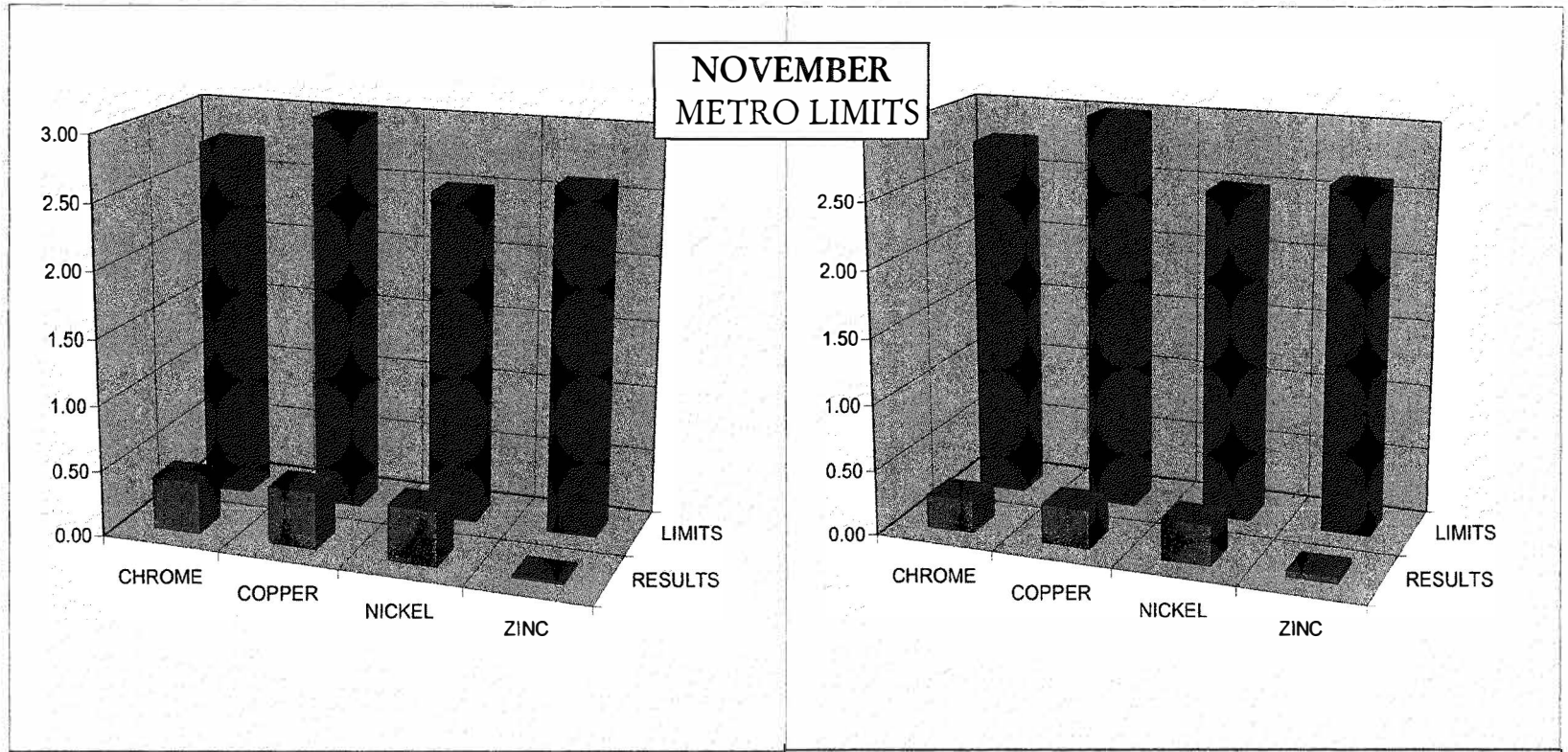
ALASKAN COPPER WORKS
3200 FACILITY
NOVEMBER 14, 2013
COMPOSITE M001259

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	0.28	0.19	0.18	0.01
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.29	0.35	0.32	0.01
LIMITS	2.75	3.00	2.50	2.61



ALASKAN COPPER WORKS 3200 FACILITY NOVEMBER 21, 2013 COMPOSITE M133411	ALASKAN COPPER WORKS 3200 FACILITY NOVEMBER 27, 2013 COMPOSITE M001302

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	0.40	0.44	0.42	0.02
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.25	0.30	0.31	0.05
LIMITS	2.75	3.00	2.50	2.61

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M001239	Client:	Alaskan Copper Works
Date Received:	11/07/13	Project:	METRO Self Monitor M001239, F&BI 311140
Date Extracted:	11/12/13	Lab ID:	311140-01 x10
Date Analyzed:	11/13/13	Data File:	311140-01 x10.016
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	88	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	281
Nickel	185
Copper	197
Zinc	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M001259	Client:	Alaskan Copper Works
Date Received:	11/14/13	Project:	M001259, F&BI 311301
Date Extracted:	11/18/13	Lab ID:	311301-01 x10
Date Analyzed:	11/18/13	Data File:	311301-01 x10.025
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	80	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	296
Nickel	328
Copper	350
Zinc	14.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M133411	Client:	Alaskan Copper Works
Date Received:	11/21/13	Project:	METRO Self Monitor M133411, F&BI 311432
Date Extracted:	11/22/13	Lab ID:	311432-01 x10
Date Analyzed:	11/22/13	Data File:	311432-01 x10.039
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	82	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	403
Nickel	429
Copper	447
Zinc	22.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M001302	Client:	Alaskan Copper Works
Date Received:	11/27/13	Project:	METRO Self Monitor, F&BI 311532
Date Extracted:	12/05/13	Lab ID:	311532-01 x10
Date Analyzed:	12/05/13	Data File:	311532-01 x10.073
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	254
Nickel	315
Copper	309
Zinc	<50

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	10/28	7 AM	24.5	5	9.97	9.88	—	—	1101	Ø	124	127	15				
		3 PM	24.5	3	10.02	9.95	—	—	473	6	128	124	126				
		11PM	24.1	2	10.34	9.84	—	—	880	8	120	119	116				
TUESDAY	10/29	7 AM	24.1	2	10.65	9.87	—	—	880	8	117	123	120				
		3 PM	24.1	1	10.90	9.97	—	—	231	8	127	126	122				
		11PM	23.7	16	10.83	10.49	—	—	1190	8	120	119	114				
WEDNESDAY	10/30	7 AM	23.7	16	10.16	10.44	—	—	1190	8	126	128	124				
		3 PM	23.0	15	10.23	10.40	—	—	Ø	Ø	136	128	124				
		11PM	23.6	16	10.9	10.54	—	—	362	Ø	121	121	120				
THURSDAY	10/31	7 AM	23.6	16	11.17	10.42	—	—	362	Ø	123	120	119				
		3 PM	24.0	15	10.60	10.32	—	—	360	Ø	121	128	122				
		11PM	24.0	15	9.98	10.58	—	—	919	2	119	120	118				
FRIDAY	11/1	7 AM	24.9	15	10.81	10.46	—	—	919	5	119	120	119				
		3 PM	24.9	15	10.81	10.46	—	—	Ø	Ø	119	125	124				
		11PM	25.1	13	10.26	10.29	—	—	633	Ø	124	129	121				
SATURDAY																	
SUNDAY																	

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

AKC-0003320

REF. DWG NO. 500-0007 REV. A 1994

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	11/4	7 AM	24.5	14	10.20	10.21	—	—	633	1	127	122	132				
		3 PM	24.4	14	10.19	10.16	—	—	250	Ø	126	128	121				
		11PM	24.0	12	10.48	10.04	—	—	949	14	120	130	117				
TUESDAY	11/5	7 AM	24.0	12	9.98	9.95	—	—	949	14	128	123	109				
		3 PM	24.0	12	11.04	9.94	—	—	[illegible]	[illegible]	126	128	121				
		11PM	24.8	10	[illegible]	[illegible]	—	—	1125	2	122	126	112				
WEDNESDAY	11/6	7 AM	24.8	10	10.16	10.74	—	—	1125	2	120	114	105				
		3 PM	24.0	10	11:32	10.64	—	—	188	Ø	122	126	127				
		11PM	23.8	10	10.22	10.55	—	—	1065	Ø	126	118	118				
THURSDAY	11/7	7 AM	23.8	10	10.15	10.49	—	—	1065	Ø	124	123	110				
		3 PM	24.2	10	11.49	10.42	—	—	Ø	Ø	135	129	126				
		11PM	23.9	8	10.54	10.40	—	—	949	2	118	120	119				
FRIDAY	11/8	7 AM	23.9	8	10.49	10.34	—	—	949	2	124	121	116				
		3 PM	23.9	8	11.89	10.26	—	—	Ø	Ø	126	120	121				
		11PM	24.1	7	10.72	10.43	—	—	713	Ø	128	128	118				
SATURDAY																	
SUNDAY																	

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

AKC-0003321

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	FLOWMETE	CYCLE	TEMP PT LARGE TANK	TEMP PT SMALL TANK	TEMP PT OAKITE TANK	REVETMENT LARGE RINSE	REVETMENT LARGE ACID	REVETMENT SMALL TANKS	COMMENTS,PROBLEMS,& REMARKS (W/O#)
MONDAY	11/11	7 AM	24.1	7	10.55	10.43	–	–	713	0	124	128	127				
		3 PM	24.3	7	12.26	10.40	–	–	Ø	Ø	121	120	128				
		11PM	23.8	5	10.41	10.89	–	–	1133	Ø	123	116	113				
TUESDAY	11/12	7 AM	23.8	5	10.41	10.81	–	–	1133	0	116	126	105				
		3 PM	23.8	5	10.59	10.70	–	–	217	6	130	128	126				
		11PM	23.8	5	[illegible]	10.33	–	–	1096	0	122	123	120				
WEDNESDAY	11/13	7 AM	23.8	5	11.40 ~~10.43~~	10.27	–	–	1096	3	122	123	112				
		3 PM	23.7	5	11.31	10.22	–	–	Ø	Ø	122	122	120				
		11PM	23.9	4	10.01	10.07	–	–	692	11	126	117	118				
THURSDAY	11/14	7 AM	23.9	4	9.71	10.05	–	–	692	11	116	122	112				
		3 PM	23.9	3	11.35	10.02	–	–	162	2	121	118	123				
		11PM	23.4	1	10.31	10.26	–	–	881	2	123	126	113				
FRIDAY	11/15	7 AM	23.4	1	10.26	10.51	–	–	881	2	121	121	114				
		3 PM	23.4	1	11.21	10.42	–	–	Ø	Ø	134	127	118				
		11PM	23.9	1	9.86	10.23	–	–	1011	Ø	128	117	115				
SATURDAY																	
SUNDAY																	

AKC-0003322

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	REVEIMENT LARGE RINSE	REVEIMENT LARGE ACID	REVEIMENT SMALL TANKS	COMMENTS, PROBLEMS, & REMARKS (W/O#)
MONDAY	11/18	7 AM	23.9	1	9.14	10.44	–	–	1011	0	120	119	125				
		3 PM	23.1	16	11.03	10.10	–	–	531	2	125	124	118				
		11PM	23.0	15	10.79	10.65	–	–	1208	2	131	115	116				
TUESDAY	11/19	7 AM	23.0	15	10.74	10.60	–	–	1208	2	122	120	109				
		3 PM	23.2	15	10.61	10.64	–	–	467	Ø	129	129	126				
		11PM	23.3	14	10.14	10.62	–	–	808	2	121	115	114				
WEDNESDAY	11/20	7 AM															
		3 PM	23.2	14	10.39	10.50	–	–	808	2	126	129	122				– reset cycles & flow at 3:00
		11PM	23.2	14	9.80	10.53	–	–	297	1	121	115	114				
THURSDAY	11/21	7 AM	23.2	14	9.76	10.43	–	–	297	1	122	117	107				
		3 PM	22.6	14	11.79	10.28	–	–	166	3	129	120	123				
		11PM	22.9	13	10.16	10.23	–	–	1033	1	132	116	116				
FRIDAY	11/22	7 AM	22.9	13	10.11	10.27	–	–	1033	1	130	118	107				Need to replace Aqua pure filter on steam generator – dripping?
		3 PM	22.9	13	11.54	10.13	–	–	Ø	Ø	130	130	128				
		11PM	2.31	12	9.94	10.34	–	–	714	7	120	120	113				
SATURDAY																	
SUNDAY																	

AKC-0003323

REF. DWG NO. 500-0007 REV. A 1994

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	FLOWMETE	CYCLES	TEMP F° LARGE TANK	TEMP F° SMALL TANK	TEMP F° OAKITE TANK	REVEIMENT LARGE RINSE	REVEIMENT LARGE ACID	REVEIMENT SMALL TANKS	COMMENTS,PROBLEMS,& REMARKS (W/O#)
MONDAY	11/25	7 AM	23.3	12	9.78	10.23	-	-	714	7	119	97	141				
		3 PM	23.3	12	10.53	10.20	-	-	391	4	124	124	124				
		11PM	23.2	12	10.55	10.04	—	—	1500	27	120	117	118				
TUESDAY	11/26	7 AM	22.9	12	9.29	9.99	-	-	km	97	117	120	100				
		3 PM	22.9	11	10.58	9.95	—	-	200	Ø	127	128	91				
		11PM	22.8	10	10.46	10.37	—	—	1217	2	127	112	83				
WEDNESDAY	11/27	7 AM	22.8	10	10.33	10.27	-	-	1217	2	134	123	77				
		3 PM	22.3	10	11.52	10.20	—	—	Ø	4	125	130	71				
		11PM	22.2	10	10.36	10.62	—	—	1001	Ø	123	119	67				
THURSDAY	11/28	7 AM															
		3 PM															
		11PM															
FRIDAY	11/28	7 AM															
		3 PM															
		11PM															
SATURDAY																	
SUNDAY																	

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