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-0002960

Company Name: ALASKAN COPPER WORKS 3600 E. MARGINAL WAY **Sample Site No.** A-4009 **Permit/DA No.:** 7201-4

Please Specify Month & Year: **Month:** JANUARY **2014**

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															
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28															
29															
30															
31															

Jan 2014

NOT IN USE T

Monthly Min pH		& Date	
Monthly Max pH		& 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.

James Brown 2/6/14

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

King County

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Phone 206-263-3000 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

AKC-0002961

Company Name: ALASKAN COPPER WORKS 3600 E. MARGINAL WAY **Sample Site No.** A-4009 **Permit/DA No.:** 7201-4

Please Specify Month & Year: **Month:** JANUARY **2014** **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															
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27															
28															
29															
30															
31															

NOT IN USE THIS MONTH

Monthly Min pH		& Date	
Monthly Max pH		& Date	
Total Monthly Flow (gallons)			
Maximum Daily Flow		& Date	

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James Brown 2/6/14

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

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AKC-0002962

Company Name: ALASKAN COPPER WORKS 3200 6TH AVE. S. **Sample Site No.** A-4010 **Permit/DA No.:** 7238-5

Please Specify Month & Year: **Month:** JANUARY **2014** **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		10.2	10.4											708	
(3)	C	10.0	10.3		.30	.34			.33		.01			1060	
4		---------	---------											----------	
5		---------	---------											----------	
6		9.9	10.1											985	
7		9.9	10.6											867	
8		10.4	10.5											796	
(9)	C	10.3	10.4		.15	.16			.14		.01			836	
10		10.1	10.2											726	
11		---------	---------											----------	
12		---------	---------											----------	
13		9.9	11.0											739	
14		10.7	11.0											1126	
15		10.6	10.7											848	
(16)	C	10.5	10.6		.71	.70			.56		.01			882	
17		10.4	10.5											1738	
18		---------	---------											----------	
19		---------	---------											----------	
20		10.1	10.4											665	
21		10.2	10.3											818	
22		10.2	10.4											1351	
(23)	C	10.2	10.3		.42	.58			.52		.01			909	
24		10.4	10.7											638	
25		---------	---------											----------	
26		---------	---------											----------	
27		10.4	10.4											752	
28		10.4	11.0											961	
29		10.1	10.4											681	
(30)	C	10.2	10.6		.12	.14			.09		.01			1081	
31		10.5	10.6											652	

Monthly Min pH	9.9	& Date	1-6-14	Total Monthly Flow (gallons)	19819
Monthly Max pH	11.0	& Date	1-13-14	Maximum Daily Flow	1738 & Date 1-17-14

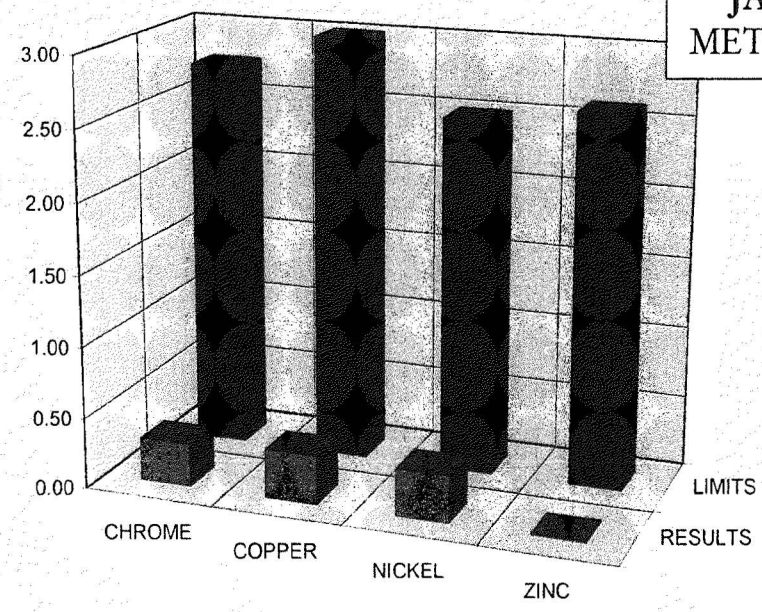
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

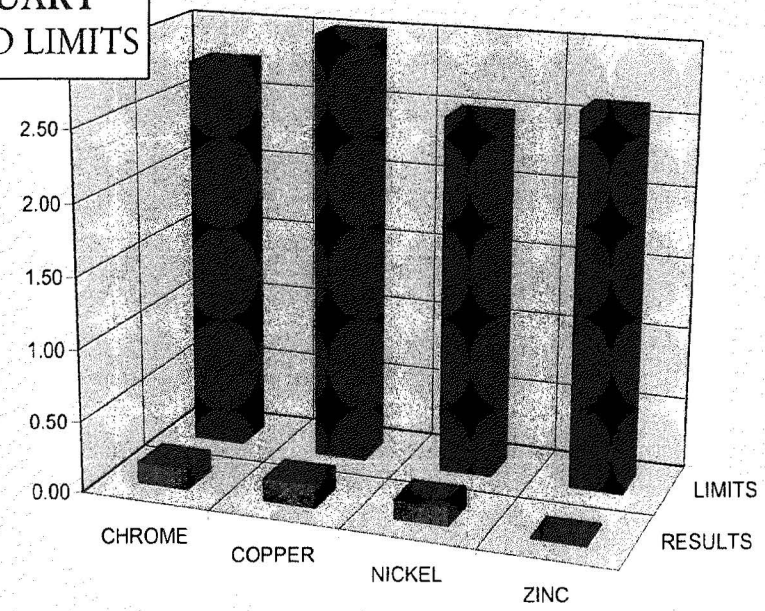
James Brown 2/6/14

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

JANUARY
METRO LIMITS





ALASKAN COPPER WORKS 3200 FACILITY JANUARY 3, 2014 COMPOSITE M133634	ALASKAN COPPER WORKS 3200 FACILITY JANUARY 9, 2014 COMPOSITE M001428

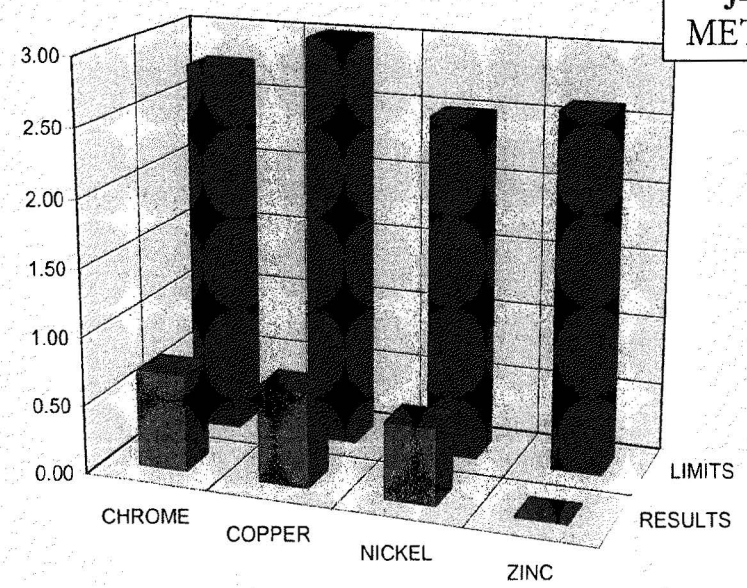
VISUAL REPRESENTATION OF THE LAB RESULTS

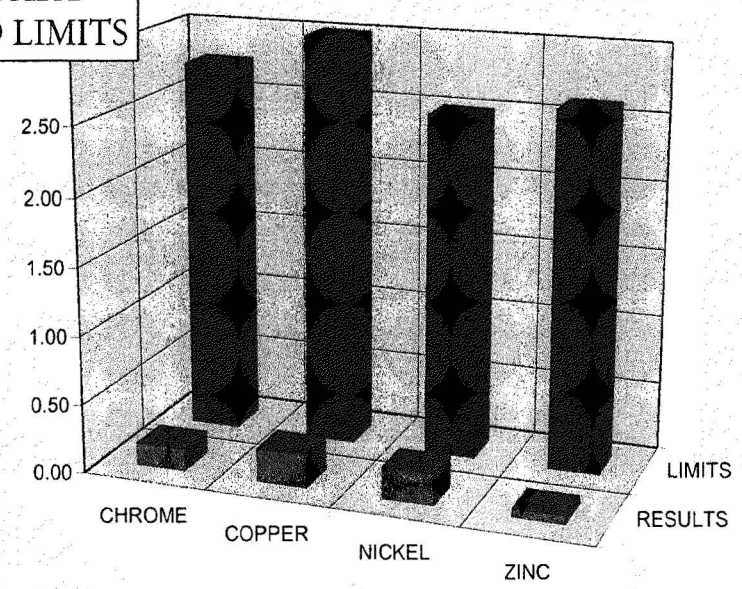
NOTE: ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.30	0.34	0.33	0.01
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.15	0.16	0.14	0.01
LIMITS	2.75	3.00	2.50	2.61

JANUARY
METRO LIMITS





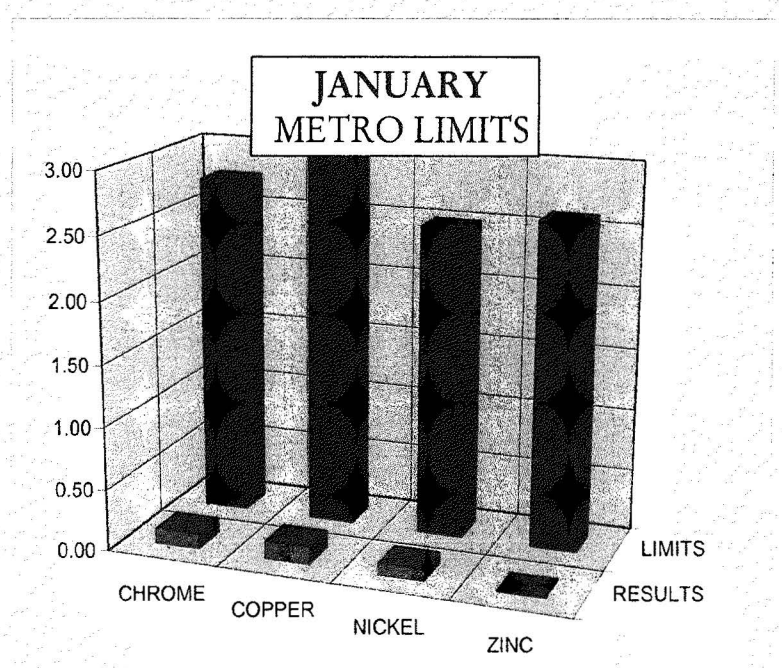
ALASKAN COPPER WORKS 3200 FACILITY JANUARY 16, 2014 COMPOSITE M001460	ALASKAN COPPER WORKS 3200 FACILITY JANUARY 23, 2014 COMPOSITE M001477

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	0.71	0.70	0.56	0.01
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.16	0.24	0.23	0.06
LIMITS	2.75	3.00	2.50	2.61



ALASKAN COPPER WORKS
3200 FACILITY
JANUARY 30, 2014
COMPOSITE M133788

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	0.12	0.14	0.09	0.01
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:	M133634	Client:	Alaskan Copper Works
Date Received:	01/03/14	Project:	METRO Self Monitor M133634
Date Extracted:	01/08/14	Lab ID:	401022-01 x10
Date Analyzed:	01/08/14	Data File:	401022-01 x10.035
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	302
Nickel	335
Copper	344
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M001428	Client:	Alaskan Copper Works
Date Received:	01/09/14	Project:	METRO Self Monitor M001428
Date Extracted:	01/13/14	Lab ID:	401091-01 x10
Date Analyzed:	01/15/14	Data File:	401091-01 x10.023
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	85	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	155
Nickel	148
Copper	166
Zinc	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M001460	Client:	Alaskan Copper Works
Date Received:	01/16/14	Project:	M001460, F&BI 401182
Date Extracted:	01/17/14	Lab ID:	401182-01 x10
Date Analyzed:	01/20/14	Data File:	401182-01 x10.034
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	711
Nickel	566
Copper	702
Zinc	10.7

AKC-0002968

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M001477	Client:	Alaskan Copper Works
Date Received:	01/23/14	Project:	Metro Self Monitor M001477, F&BI 401262
Date Extracted:	01/28/14	Lab ID:	401262-01 10x
Date Analyzed:	01/28/14	Data File:	401262-01 10x.026
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	85	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	423
Nickel	523
Copper	580
Zinc	18.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M133788	Client:	Alaskan Copper Works
Date Received:	01/30/14	Project:	PO M133788, F&BI 401366
Date Extracted:	01/31/14	Lab ID:	401366-01 x10
Date Analyzed:	01/31/14	Data File:	401366-01 x10.066
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	126
Nickel	96.1
Copper	143
Zinc	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CB331707-010814	Client:	Landau Associates
Date Received:	01/08/14	Project:	1198001.010.058 PO M001403, F&BI 401079
Date Extracted:	01/13/14	Lab ID:	401079-01
Date Analyzed:	01/13/14	Data File:	401079-01.065
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)
Copper	183
Zinc	514

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	12/30	7 AM	20.9	6	10.96	10.31	—	—	1065	6	127	107	118				
		3 PM	20.1	6	11.41	10.50	—	—	381	Ø	125	120	122				
		11PM	20.1	6	10.52	11.05	—	—	1314	Ø	122	116	119				
TUESDAY	12/31	7 AM	20.1	6	11.73	10.88	—	—	1314	4	106	110	129				
		3 PM	20.1	6	10.38	10.90	—	—	1465	4	107	102	118				
		11PM	19.9	6	10.52	10.61	—	—	2112	Ø	103	91	124				
WEDNESDAY	1/1/14	7 AM															2112 1314 708
		3 PM															
		11PM															
THURSDAY	1/2/14	7 AM	19.9	6	9.90	10.43	—	—	~~708~~ 2112	3	126	127	91				oakite tank needs reset
		3 PM	19.6	6	10.56	10.33	—	—	262	1	126	120	89				
		11PM	19.4	6	10.24	10.23	—	—	1060	Ø	116	121	82				
FRIDAY	1/3/14	7 AM	19.4	6	9.57	10.04	—	—	1060	4	128	127	107				
		3 PM	19.5	6	9.87	10.08	—	—	210	2	119	126	123				
		11PM	19.4	5	11.61	10.34	—	—	985	4	115	125	117				
SATURDAY																	
SUNDAY																	

AKC-0002972

.\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	1/6	7 AM	19.4	5	11.35	10.10	-	-	185	4	132	119	122				
		3 PM	19.3	5	9.90	10.11	—	—	267	Ø	125	128	123				-Flowmeter not working
		11PM	19.4	5	10.64	9.93	—	—	Ø	Ø	135	117	118				
TUESDAY	1/7	7 AM	19.3	5	11.18												Flow meter fixed
		3 PM	19.0	5	10.07	9.90	—	-	3	6	124	128	123				Output Probe Burned while fixing flow meter
		11PM	19.1	5	10.02	10.64	—	—	796	9	118	128	119				Probe DMF Replaced PreAmp ok
WEDNESDAY	1/8	7 AM	19.1	5	11.27	10.49	-	-	796	12	122	127	107				
		3 PM	18.5	5	10.00	10.47	—	—	230	Ø	128	126	122				
		11PM	18.6	4	9.98	10.56	—	—	836	1	139	125	117				
THURSDAY	1/9	7 AM	18.6	4	9.84	10.41	—	-	836	1	125	122	126				
		3 PM	18.6	4	9.66	10.42	—	—	259	7	132	128	123				
		11PM	18.4	4	10.12	10.30	—	—	726	Ø	131	121	117				
FRIDAY	1/10	7 AM	18.4	4	9.64	10.13	—	—	726	Ø	107	105	120				
		3 PM	18.3	3	9.89	10.16	—	—	192	4	110	101	123				
		11PM	18.3	2	10.18	10.26	—	—	739	12	118	126	118				
SATURDAY																	
SUNDAY																	

AKC-0002973

.\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	1/13	7 AM	18.2	1	12.43	9.55	–	–	755	12	111	94	121				
		3 PM	17.7	1	11.54	9.95	–	–	~~000~~	Ø	119	127	126				
		11PM	17.6	15	9.77	11.08	–	–	1126	Ø	121	121	116				
TUESDAY	1/14	7 AM	17.6	15	9.78	11.01	–	–	1126	Ø	119	110	107				
		3 PM	17.5	15	11.40	10.77	–	–	597	Ø	126	128	124				
		11PM	17.2	15	9.70	10.81	–	–	848	7	120	124	121				
WEDNESDAY	1/15	7 AM	17.2	15	9.68	10.65	–	–	848	7	125	125	121				
		3 PM	17.3	14	9.82	10.77	–	–	190	Ø	118	124	119				
		11PM	17.5	13	9.73	10.74	–	–	882	11	117	120	114				
THURSDAY	1/16	7 AM	17.5	13	10.86	10.67	–	–	882	11	124	107	101				Forgot to Reset
		3 PM	17.2	13	10.60	10.57	–	–	966	17	125	122	121				
		11PM	17.2	13	9.78	10.60	–	–	1738	25	123	123	116				
FRIDAY	1/17	7 AM	17.2	11	10.98	10.55	–	–	1738	33	132	114	101				
		3 PM	17.4	11	9.52	10.44	–	–	Ø	1	123	120	123				
		11PM	17.6	10	10.13	10.44	–	–	665	2	119	122	115				
SATURDAY																	
SUNDAY																	

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

AKC-0002974

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	1/20	7 AM	17.3	10	9.79	10.15	–	–	665	2	125	114	128				
		3 PM	17.3	10	9.53	10.23	–	–	214	4	126	128	127				
		11PM	17.1	8	9.84	10.42	–	–	818	1	113	127	119				
TUESDAY	1/21	7 AM	17.1	8	9.76	10.39	–	–	818	1	124	112	105				
		3 PM	17.2	8	10.39	10.28	–	–	224	5	129	121	123				
		11PM	17.0	5	9.76	10.39	–	–	1351	14	119	127	114				
WEDNESDAY	1/22	7 AM	17.0	5	10.10	10.29	–	–	1351	14	125	117	103				2021 AIR Shutoff - line broke - shut air off
		3 PM	16.9	4	10.00	10.25	–	–	278	Ø	123	120	123				
		11PM	16.0	2	9.96	10.43	–	–	909	6	123	118	118				
THURSDAY	1/23	7 AM	16.0	2	10.10	10.38	–	–	909	6	119	105	114				
		3 PM	17.1	2	10.82	10.25	–	–	Ø	Ø	122	121	123				
		11PM	17.1	2	10.71	10.69	–	–	638	Ø	119	124	122				
FRIDAY	1/24	7 AM	17.1	2	9.87	10.43	–	–	638	Ø	120	97	123				
		3 PM	17.0	2	9.54	10.41	–	–	Ø	Ø	123	96	122				
		11PM	16.8	1	10.63	10.77	–	–	752	10	121	116	116				
SATURDAY																	
SUNDAY																	

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AKC-0002975

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	1-27	7 AM	16.8	0	11.63	10.44	—	—	752	20	107	66	133				
		3 PM	16.4	1	6.26	10.40	—	—	Ø	4	128	124	120				
		11PM	16.8	14	9.70	10.48	—	—	961	18	133	126	115				
TUESDAY	1-28	7 AM	16.0	14	9.69	11.06	—	—	961	18	124	111	104				
		3 PM	15.9	13	10.02	10.72	—	—	377	6	128	122	124				
		11PM	15.9	10	10.66	10.48	—	—	681	2	121	117	119				
WEDNESDAY	1-29	7 AM	15.9	10	10.00	10.31	—	—	681	2	117	100	117				
		3 PM	16.1	10	10.10	10.17	—	—	362	2	140	124	126				
		11PM	16.2	8	9.67	10.45	—	—	1081	7	122	122	119				
THURSDAY	1-30	7 AM	16.2	8	9.80	10.37	—	—	1081	7	123	106	107				
		3 PM	16.2	8	11.67	10.25	—	—	Ø	1	131	118	128				
		11PM	16.2	5	9.70	10.68	—	—	652	1	120	118	117				
FRIDAY	1/31	7 AM	16.2	5	9.70	10.60	—	—	652	1	123	105	107				
		3 PM	16.2	5	9.73	10.51	—	—	Ø	Ø	126	118	122				
		11PM	15.7	2	9.68	10.63	—	—	721	9	119	116	117				
SATURDAY	2-3-14 morning																
		3 pm	15.4	2	12.03	10.33	—	—	8	8	137	128	119				* - pac press not building pressure —
		11:00	15.3	1	10.56	10.78	—	—	877	Ø	114	122	115				
SUNDAY																	

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AKC-0002976