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-0003097

Company Name: ALASKAN COPPER WORKS 6TH AVE. S. **Sample Site No.** A-4010 **Permit/DA No.:** 7238-05

Please Specify Month & Year: **Month:** OCTOBER **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		10.5	10.8											832	
(2)	C	10.4	10.5		.16	.09			.10		.01			977	
3		10.3	10.4											950	
4		---------	---------											----------	
5		---------	---------											----------	
6		10.2	10.4											464	
7		10.3	10.3											1232	
8		10.2	10.4											540	
(9)	C	10.2	10.2		.28	.25					.01			394	
10		10.2	10.2											629	
11		---------	---------											----------	
12		---------	---------											----------	
13		10.0	10.3											722	
14		10.2	10.4											1091	
15		10.1	10.5											736	
(16)	C	10.3	10.5		.23	.18					.01			952	
17		10.4	10.5											732	
18		---------	---------											----------	
19		---------	---------											----------	
20		10.2	11.1											780	
21		10.5	11.0											852	
22		10.5	10.5											682	
(23)	C	10.5	10.6		.35	.31			.31		.01			447	
24		10.5	10.6											757	
25		---------	---------											----------	
26		---------	---------											----------	
27		10.2	10.4											1011	
28		10.3	10.4											1350	
29		10.3	10.4											666	
(30)	C	10.3	10.6		.20	.14			.17		.01			783	
31		10.5	10.7											720	

Oct 2014

Monthly Min pH	10.1	& Date	10/15/14	Total Monthly Flow (gallons)	21299
Monthly Max pH	11.1	& Date	10/20/14	Maximum Daily Flow	1350 & Date 10/28/14

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.

Signature of Principal Executive or Authorized Agent

11-7-2014
Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

King County

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AKC-0003098

Company Name: ALASKAN COPPER WORKS 6TH AVE. S. **Sample Site No.** A-4010 **Permit/DA No.:** 7238-05

Please Specify Month & Year: **Month:** OCTOBER **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		10.5	10.8											832	
(2)	C	10.4	10.5		.16	.09			.10		.01			977	
3		10.3	10.4											950	
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(9)	C	10.2	10.2		.28	.25			.27		.01			394	
10		10.2	10.2											629	
11		---------	---------											----------	
12		---------	---------											----------	
13		10.0	10.3											722	
14		10.2	10.4											1091	
15		10.1	10.5											736	
(16)	C	10.3	10.5		.23	.18			.17		.01			952	
17		10.4	10.5											732	
18		---------	---------											----------	
19		---------	---------											----------	
20		10.2	11.1											780	
21		10.5	11.0											852	
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(23)	C	10.5	10.6		.35	.31			.31		.01			447	
24		10.5	10.6											757	
25		---------	---------											----------	
26		---------	---------											----------	
27		10.2	10.4											1011	
28		10.3	10.4											1350	
29		10.3	10.4											666	
(30)	C	10.3	10.6		.20	.14			.17		.01			783	
31		10.5	10.7											720	

Monthly Min pH	10.1	& Date	10/15/14	Total Monthly Flow (gallons)	21299
Monthly Max pH	11.1	& Date	10/20/14	Maximum Daily Flow	1350 & Date 10/28/14

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.

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11-7-2014
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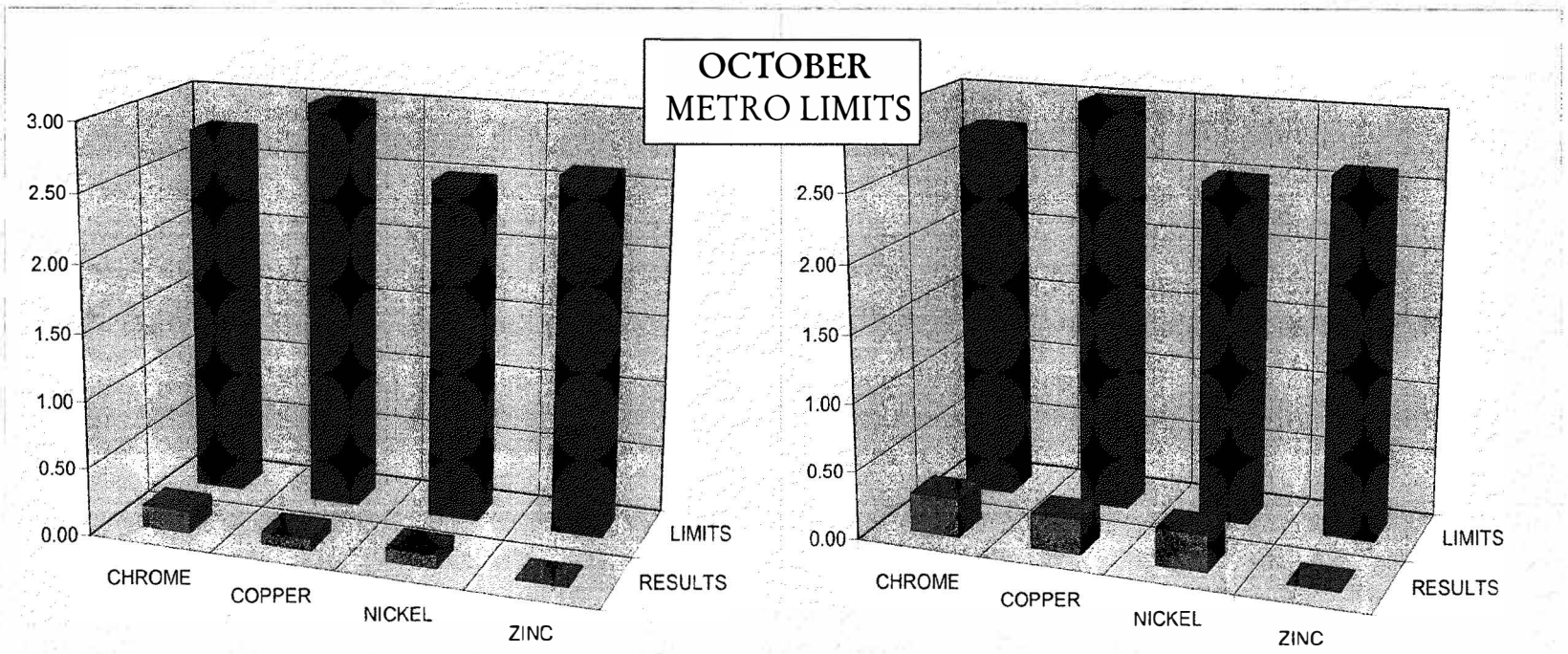


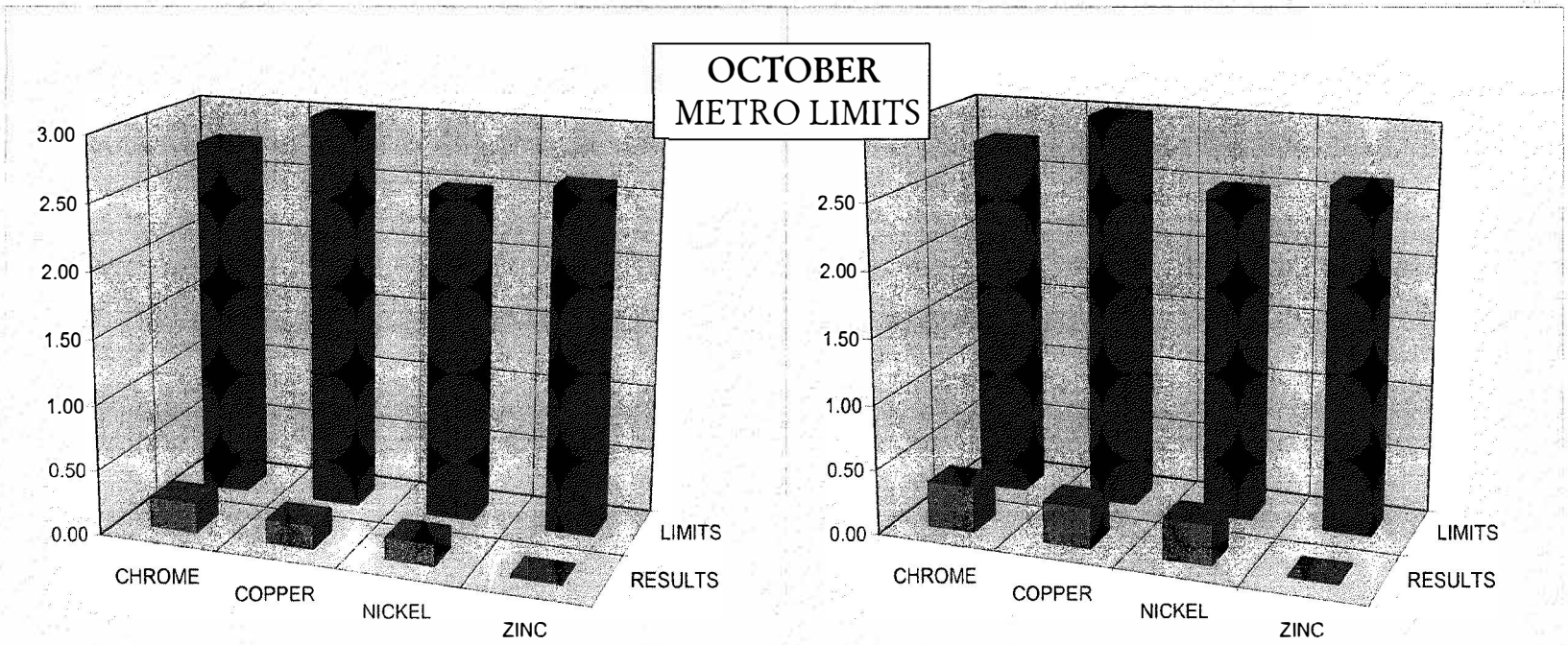
ALASKAN COPPER WORKS 3200 FACILITY OCTOBER 2, 2014 COMPOSITE M002438	ALASKAN COPPER WORKS 3200 FACILITY OCTOBER 9, 2014 COMPOSITE M002457

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	0.16	0.09	0.10	0.01
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.28	0.25	0.27	0.01
LIMITS	2.75	3.00	2.50	2.61



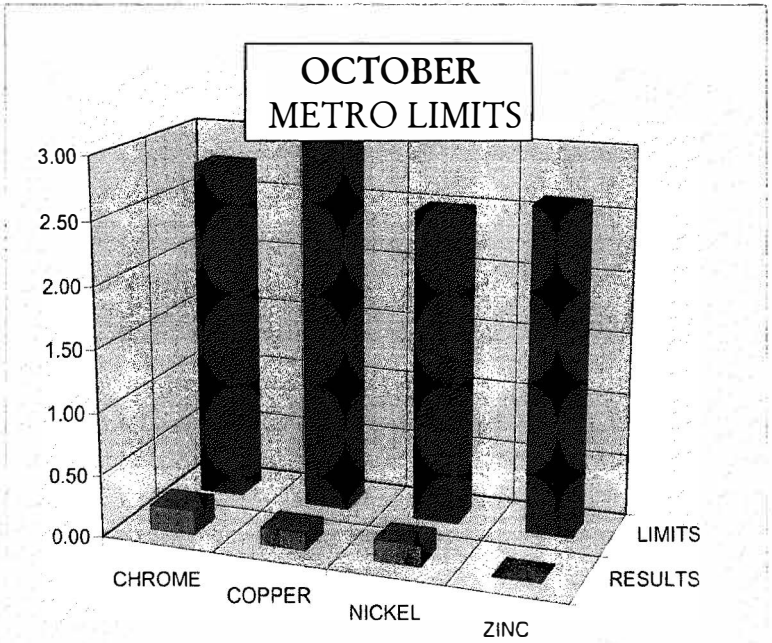
ALASKAN COPPER WORKS 3200 FACILITY OCTOBER 16, 2014 COMPOSITE M002476	ALASKAN COPPER WORKS 3200 FACILITY OCTOBER 23, 2014 COMPOSITE M135128

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	0.23	0.18	0.17	0.01
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.35	0.31	0.31	0.01
LIMITS	2.75	3.00	2.50	2.61



ALASKAN COPPER WORKS
3200 FACILITY
OCTOBER 30, 2014
COMPOSITE M135177

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	0.14	0.17	0.01
LIMITS	2.75	3.00	2.50	2.61

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 15, 2014 by Friedman & Bruya, Inc. from the Landau Associates 4Q14SW Sampling, PO M002458, F&BI 410265 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Landau Associates
410265-01	CB331707-101514
410265-02	CB330001-101514

All quality control requirements were acceptable.

AKC-0003102

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M002438	Client:	Alaskan Copper Works
Date Received:	10/02/14	Project:	Metro Self Monitor M002438, F&BI 410045
Date Extracted:	10/03/14	Lab ID:	410045-01 x10
Date Analyzed:	10/06/14	Data File:	410045-01 x10.016
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	169
Nickel	106
Copper	99.6
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M002457	Client:	Alaskan Copper Works
Date Received:	10/09/14	Project:	Metro Self Monitor M002457, F&BI 410160
Date Extracted:	10/10/14	Lab ID:	410160-01 x10
Date Analyzed:	10/10/14	Data File:	410160-01 x10.035
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	103	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	280
Nickel	273
Copper	252
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M002476	Client:	Alaskan Copper Works
Date Received:	10/16/14	Project:	Metro Self Monitor M002476, F&BI 410295
Date Extracted:	10/17/14	Lab ID:	410295-01 x10
Date Analyzed:	10/17/14	Data File:	410295-01 x10.028
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	95	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	231
Nickel	178
Copper	185
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M135128	Client:	Alaskan Copper Works
Date Received:	10/23/14	Project:	Metro Self Monitor M135128, F&BI 410421
Date Extracted:	10/28/14	Lab ID:	410421-01 x10
Date Analyzed:	10/29/14	Data File:	410421-01 x10.017
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	354
Nickel	312
Copper	311
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M135177	Client:	Alaskan Copper Works
Date Received:	10/30/14	Project:	Metro Self-Monitor M135177, F&BI 410556
Date Extracted:	10/31/14	Lab ID:	410556-01 x10
Date Analyzed:	11/03/14	Data File:	410556-01 x10.017
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	205
Nickel	175
Copper	145
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° OAKITE TANK	REVETMENT LARGE RINSE	REVETMENT LARGE ACID	REVETMENT SMALL TANKS	COMMENTS,PROBLEMS,& REMARKS (W/O#)
MONDAY	9-29	7 AM	13.1	2	9.87	10.36	-	-	9.71	54	125	118	119				
		3 PM	11.8	16	10.64	10.47	—	-	7.07	52	120	122	129				
		11PM	11.6	15	10.00	10.62	—	-	1203	68	118	116	115				
TUESDAY	9-30	7 AM	11.6	15	9.46	11.70	-	-	1203	68	124	121	106				
		3 PM	10.7	13	9.66	10.92	—	-	433	28	121	128	129				
		11PM	10.7	13	9.57	10.33	—	-	832	39	121	124	117				
WEDNESDAY	10-1	7 AM	10.7	13	7.20	10.87	-	-	832	43	128	120	107				Reset at 3:00 PM ? — when you manually cycle, caustic counter Zero's out
		3 PM	10.0	11	9.87	10.76	—	—	Ø	33	126	119	119				Caustic Cycles ? 0
		11PM	9.2	9	10.56	10.59	—	-	977	Ø	123	122	118				Sometimes
THURSDAY	10-2	7 AM	9.2	9	11.45	11.53	-	-	977	?	124	128	117				Thank you did not Know that
		3 PM	8.7	8	9.10	10.42	—	—	1161	24	128	119	120				
		11PM	8.7	6	9.99	10.47	—	-	1727	31	118	118	117				
FRIDAY	10-3	7 AM	8.7	6	9.96	10.44	-	-	1727	31	122	128	106				
		3 PM	8.2	6	9.56	10.37	—	-	Ø	28	119	123	118				
		11PM	8.0	5	9.61	10.49	—	-	464	44	120	118	118				
SATURDAY																	
SUNDAY																	

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

AKC-0003108

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	10/6	7 AM	8.0	5	10.92	10.35	–	–	464	75	121	115	121				
		3 PM	6.9	5	10.01	10.27	–	–	189	5	123	128	120				
		11PM	6.9	1	9.85	10.40	–	–	1232	Ø	127	123	122				
TUESDAY	10/7	7 AM	6.9	1	10.02	10.35	–	–	1232	Ø	118	128	112				
		3 PM	6.6	16	9.52	10.30	–	–	Ø	Ø	122	128	121				
		11PM	6.1	15	9.70	10.34	–	–	540	Ø	126	120	121				
WEDNESDAY	10-8	7 AM	6.1	15	9.43	10.28	–	–	540	3	127	130	111				
		3 PM	5.9	15	9.86	10.47	–	–	Ø	21	119	126	119				
		11PM	5.4	14	9.53	10.28	–	–	394	34	120	127	121				
THURSDAY	10/9	7 AM	5.4	14	9.65	10.23	–	–	394	38	126	129	111				
		3 PM	5.4	14	9.79	10.20	–	–	Ø	5	119	128	120				
		11PM	4.9	12	10.08	10.29	–	–	629	12	120	118	120				
FRIDAY	10/10	7 AM	4.9	12	10.59	10.28	–	–	629	17	125	129	110				
		3 PM	4.6	12	9.52	10.23	–	–	Ø	4	119	126	120				
		11PM	4.4	10	10.63	10.25	–	–	722	10	119	117	119				
SATURDAY																	
SUNDAY																	

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

AKC-0003109

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	10-13	7 AM	4.4	10	10.11	10.07	–	–	722	10	119	118	120				
		3 PM	3.8	10	9.52	10.00	–	–	188	28	120	125	120				
		11PM	3.6	7	9.78	10.39	–	–	1091	50	122	119	119				
TUESDAY	10-14	7 AM	3.6	7	10.32	10.34	–	–	1091	51	125	122	111				
		3 PM	3.3	7	9.58	10.28	–	–	Ø	7	127	128	120				
		11PM	3.0	5	9.78	10.40	–	–	736	7	119	116	120				
WEDNESDAY	10-15	7 AM	3.0	5	9.63	10.15	–	–	736	7	124	128	106				
		3 PM	2.5	4	9.85	10.21	–	–	134	37	128	128	97				
		11PM	2.3	1	9.58	10.54	–	–	952	7	122	120	89				
THURSDAY	10-16	7 AM	2.3	1	11.34	10.30	–	–	952	22	127	128	83				Oakite Temp low
		3 PM	1.8	16	9.64	10.40	–	–	372	9	127	128	80				
		11PM	1.8	13	9.64	10.55	–	–	732	1	125	128	76				
FRIDAY	10-17	7 AM	1.8	13	7.77	10.44	–	–	732	8	128	122	74				
		3 PM	1.0	12	9.56	10.50	–	–	251	14	126	118	71				
		11PM	.7	12	9.86	10.47	–	–	780	30	119	118	69				
SATURDAY																	
SUNDAY																	

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

AKC-0003110

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	10-20	7 AM	.7	12	9.82	10.20	-	-	780	39	127	123	66				
		3 PM	.2	10	10.14	10.40	—	-	391	Ø	124	124	128				
		11PM	.2	8	9.66	11.12	—	-	852	5	127	121	126				
TUESDAY	10-21	7 AM	.2	8	9.47	11.01	—	—	852	10	128	122	110				
		3 PM	1.8	8	9.61	10.87	-	—	258	14	126	122	127				
		11PM	1.5	5	10.35	10.57	—	-	682	41	126	121	115				
WEDNESDAY	10-22	7 AM	1.5	5	10.05	10.55	-	-	682	41	128	124	105				forgot to reset
		3 PM	1.2	5	9.27	10.51	—	-	682	61	128	123	119				
		11PM	1.2	1	9.91	10.58	—	-	1129	61	118	124	119				
THURSDAY	10-23	7 AM	1.2	1	9.76	10.56	—	—	1129	61	122	130	108				Added caustic
		3 PM	1.0	15	9.65	10.57	-	—	243	5	119	119	128				
		11PM	15.0	15	10.03	10.65	—	-	757	41	117	115	120				
FRIDAY	10-24	7 AM	15.0	16	9.75	10.67	—	-	757	41	121	130	107				
		3 PM	14.4	15	5.06	10.57	—	—	Ø	20	124	119	128				
		11PM	14.0	12	9.95	10.65	—	—	1011	50	119	125	121				
SATURDAY																	
SUNDAY																	

Oi #29 6 gal 94%

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

AKC-0003111

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	10-27	7 AM	14.0	12	8.69	10.35	–	–	1011	50	125	110	118				was at 11 went Back
		3 PM	13.0	12	9.60	10.27	–	–	416	35	125	128	121				to '0' Cycles
		11PM	12.8	10	10.56	10.49	–	–	1350	51	125	126	117				
TUESDAY	10-28	7 AM	12.8	10	9.83	10.46	–	–	1350	62	127	128	106				62 made up difference
		3 PM	12.8	10	9.54	10.34	–	–	Ø	5	123	128	120				Caustic
		11PM	12.4	8	9.62	10.47	–	–	666	30	119	117	118				Cycles
WEDNESDAY	10-29	7 AM	12.4	8	10.57	10.42	–	–	666	30	123	129	108				
		3 PM	11.7	8	9.63	10.36	–	–	217	28	127	118	118				
		11PM	11.5	8	9.65	10.45	–	–	783	45	126	116	119				
THURSDAY	10-30	7 AM	11.5	8	8.86	10.39	–	–	783	48	119	128	108				
		3 PM	11.4	8	9.54	10.56	–	–	371	26	123	129	118				
		11PM	10.8	5	9.70	10.62	–	–	720	39	124	122	121				
FRIDAY	10-31	7 AM	10.8	5	10.30	10.59	–	–	720	53	121	128	110				Ack switch on panel
		3 PM	10.2	5	8.70	10.53	–	–	Ø	15	124	129	119				light is out
		11PM	9.7	5	10.01	10.70	–	–	607	40	119	119	120				
SATURDAY	11-3-14																
		~~7. AM~~	~~9.7~~	~~5~~	~~5.39~~	~~10.34~~	–	–	~~607~~	~~40~~	~~127~~	~~121~~	~~124~~				
SUNDAY																	

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