Industrial Waste Quarterly 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-0002989

Company Name: ALASKAN COPPER WORKS 6TH AVE. S.

This form is available at www.kingcounty.gov/industrialwaste. http://dnr.metrokc.gov/wlr/indwaste

Please specify year: **2014** **QUARTER 1** **Sample Site No.:** A-40102 **Permit/DA No.:** 7238-05

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	pH	Chrome, Cr	Silver, Ag	Nonpolar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
January									1610
								harged for January	
February									1400
								Total volume discharged for February	
March	3/6/14	G	6.34	.03	.57				1400
								Total volume discharged for March	

Mar 2014

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 4/7/14

► Maximum daily flow from this quarter: 70 **gallons.** Date on which maximum daily flow occurred: 1/16/14

ue Date: **First Quarter Report is due by April 15 of each year.**

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AKC-0002990

Company Name: **ALASKAN COPPER WORKS 6TH AVE. S.**

This form is available at www.kingcounty.gov/industrialwaste. http://dnr.metrokc.gov/wlr/indwaste

Please specify year: **2014** **QUARTER 1** **Sample Site No.:** **A-40102** **Permit/DA No.:** **7238-05**

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	pH ▼	Chrome, Cr ▼	Silver, Ag ▼	Nonpolar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
January									1610
	Total volume discharged for January								
February									1400
	Total volume discharged for February								
March	3/6/14	G	6.34	.03	.57				1400
	Total volume discharged for March								

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 4/7/14

► Maximum daily flow from this quarter: **70** **gallons.** Date on which maximum daily flow occurred: **1/16/14**

Due Date: **First Quarter Report is due by April 15 of each year.**

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-0002991

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

Please Specify Month & Year: **Month:** MARCH **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		10.2	10.7											1083	
4		10.0	10.4											1304	
5		10.3	10.4											645	
(6)	C	10.2	10.4		.45	.47			.47		.02			770	
7		10.1	10.4											1286	
8		---------	---------											----------	
9		---------	---------											----------	
10		10.4	11.2											539	
11		10.3	11.2											1325	
12		10.1	10.4											1251	
(13)	C	10.1	10.3		.41	.43			.47		.01			734	
14		9.8	10.2											1080	
15		---------	---------											----------	
16		---------	---------											----------	
17		10.2	11.1											929	
18		10.6	11.0											1018	
19		10.4	10.6											878	
(20)	C	10.4	10.5		.38	.44			.42		.01			879	
21		10.2	10.4											646	
22		---------	---------											----------	
23		---------	---------											----------	
24		10.1	10.3											730	
25		10.2	10.9											858	
26		10.5	10.6											652	
(27)	C	10.3	10.5		.36	.47			.42		.01			839	
28		10.3	10.7											484	
29		---------	---------											----------	
30		---------	---------											----------	
31		10.0	10.6											878	

Monthly Min pH	9.8	& Date	3/14/14
Monthly Max pH	11.2	& Date	3/10/14
Total Monthly Flow (gallons)	18808		
Maximum Daily Flow	1325	& Date	3/11/14

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.

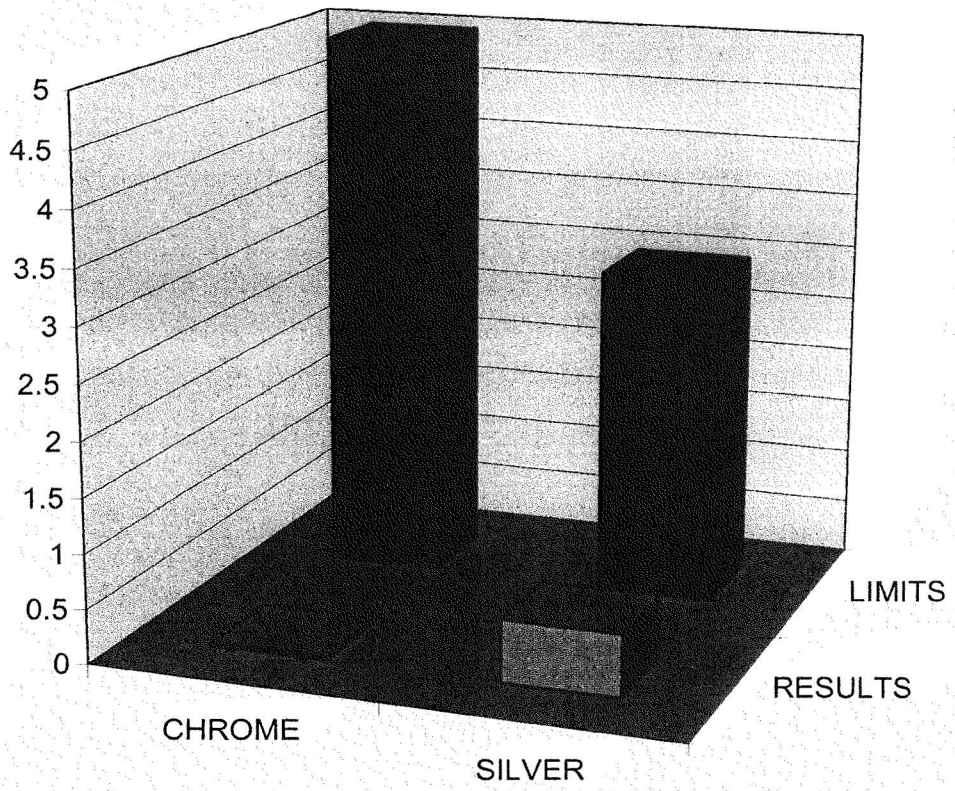
James Brown 4/7/14

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.

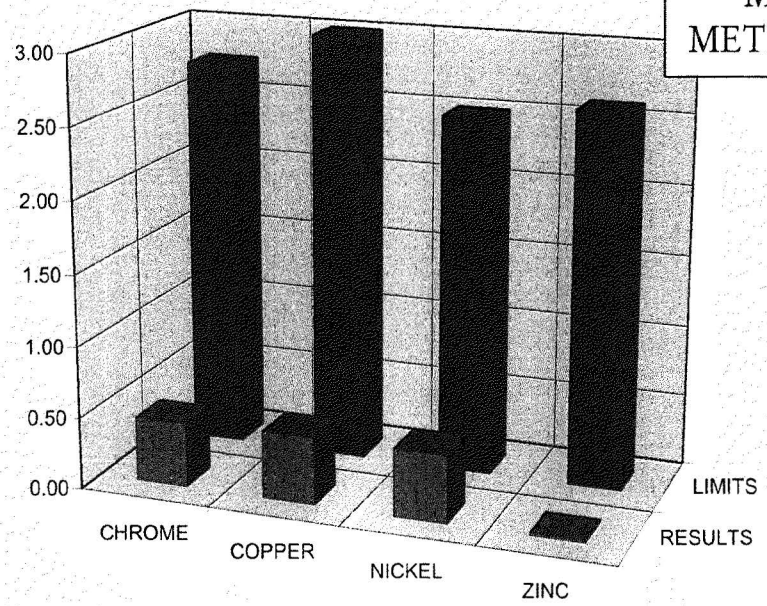
1ST
QUARTER

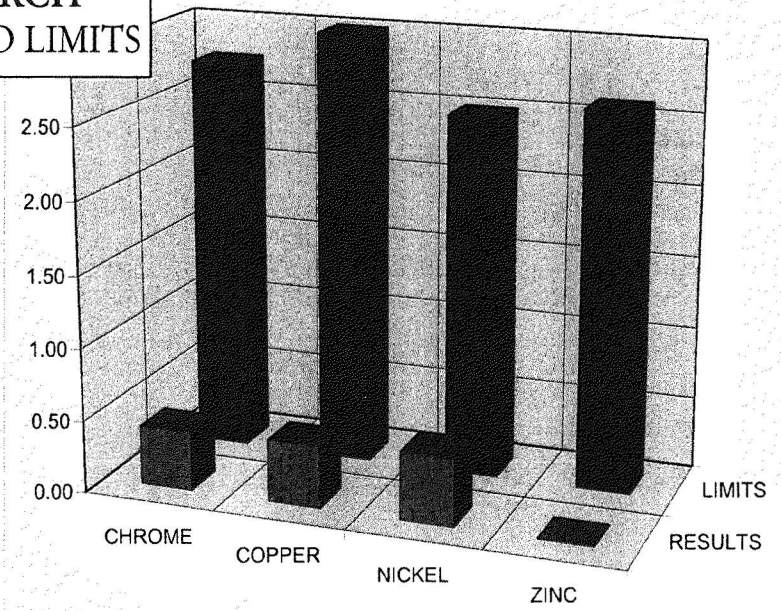


ALASKAN COPPER WORKS
3200 X-RAY DEPT.
MARCH 6, 2014
GRAB M1001674

	CHROME	SILVER
RESULTS	0.03	0.57
LIMITS	5.00	3.00

MARCH
METRO LIMITS





ALASKAN COPPER WORKS 3200 FACILITY MARCH 6, 2014 COMPOSITE M001675	ALASKAN COPPER WORKS 3200 FACILITY MARCH 13, 2014 COMPOSITE M001698

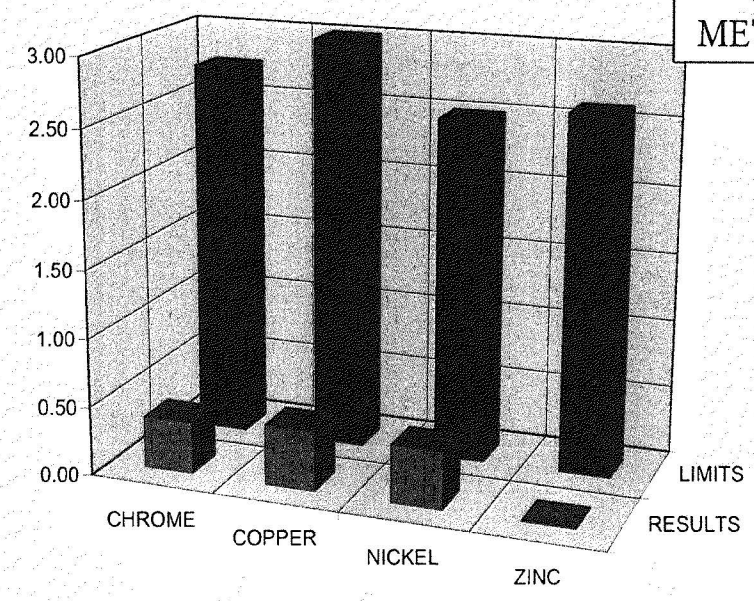
VISUAL REPRESENTATION OF THE LAB RESULTS

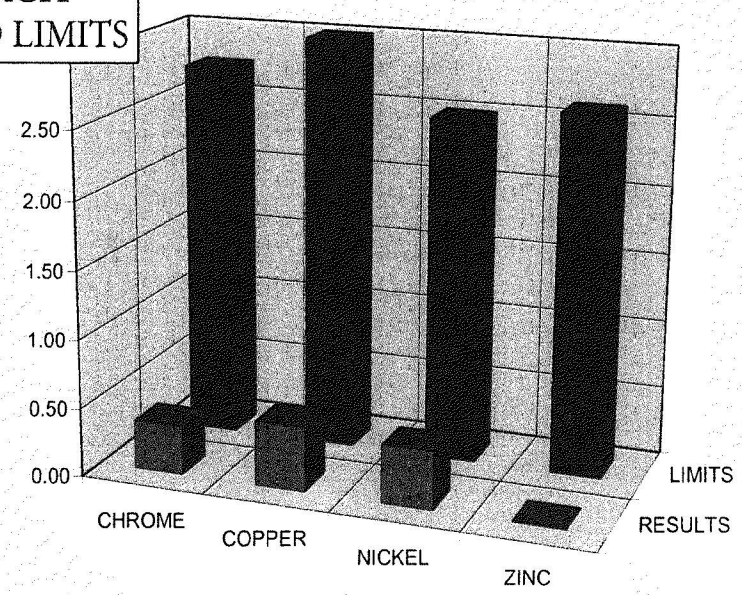
NOTE: ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.45	0.47	0.47	0.02
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.41	0.43	0.47	0.01
LIMITS	2.75	3.00	2.50	2.61

MARCH
METRO LIMITS





ALASKAN COPPER WORKS 3200 FACILITY MARCH 20, 2014 COMPOSITE M001715	ALASKAN COPPER WORKS 3200 FACILITY MARCH 27, 2014 COMPOSITE M001746

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	0.38	0.44	0.42	0.01
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.36	0.47	0.42	0.01
LIMITS	2.75	3.00	2.50	2.61

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/11/14
Date Received: 03/06/14
Project: METRO Self Monitor M001674, F&BI 403066
Date Extracted: NA
Date Analyzed: 03/07/14

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR pH USING EPA METHOD 9040C

Sample ID Laboratory ID	pH
M001674 403066-01	6.34

AKC-0002995

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M001675	Client:	Alaskan Copper Works
Date Received:	03/06/14	Project:	METRO Self Monitor, F&BI 403067
Date Extracted:	03/07/14	Lab ID:	403067-01 x10
Date Analyzed:	03/07/14	Data File:	403067-01 x10.046
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	458
Nickel	472
Copper	473
Zinc	22.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M001698	Client:	Alaskan Copper Works
Date Received:	03/13/14	Project:	M001698, F&BI 403164
Date Extracted:	03/17/14	Lab ID:	403164-01 x10
Date Analyzed:	03/19/14	Data File:	403164-01 x10.023
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	417
Nickel	479
Copper	439
Zinc	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M001715	Client:	Alaskan Copper Works
Date Received:	03/20/14	Project:	M001715, F&BI 403273
Date Extracted:	03/21/14	Lab ID:	403273-01 x10
Date Analyzed:	03/21/14	Data File:	403273-01 x10.016
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	84	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	385
Nickel	426
Copper	448
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M001746	Client:	Alaskan Copper Works
Date Received:	03/27/14	Project:	METRO Self Monitor M001746, F&BI 403409
Date Extracted:	04/01/14	Lab ID:	403409-01 x10
Date Analyzed:	04/01/14	Data File:	403409-01 x10.072
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	367
Nickel	423
Copper	470
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	3/3	7 AM	11.4	5	10.22	10.78	–	–	1083	Ø	95	71	137				Forgot to Reset Stem
		3 PM	11.7	5	9.94	10.22	–	–	1748	26	125	122	123				
		11PM	11.8	5	9.80	10.32	–	–	2387	26	120	95	121				
TUESDAY	3/4	7 AM	11.8	5	9.70	10.18	–	–	2387	26	111	89	141				STEAM GENERATOR NOT WORKING?
		3 PM	11.7	5	10.63	10.02	–	–	Ø	1	117	81	122				
		11PM	11.8	4	9.84	10.49	–	–	645	1	101	76	125				
WEDNESDAY	3/5	7 AM	11.8	4	9.91	10.39	–	–	645	1	105	74	127				
		3 PM	11.8	4	9.88	10.32	–	–	Ø	Ø	128	127	130				
		11PM	11.0	4	9.76	10.47	–	–	770	8	125	111	126				
THURSDAY	3/6	7 AM	11.0	4	10.90	10.44	–	–	770	11	127	96	128				
		3 PM	10.8	4	10.03	10.35	–	–	346	3	137	127	127				
		11PM	10.9	4	10.50	10.29	–	–	1286	1	126	116	124				
FRIDAY	3/7	7 AM	10.9	4	10.00	10.23	–	–	1286	1	106	101	142				
		3 PM	10.5	4	10.57	10.15	–	–	Ø	2	110	97	121				
		11PM	10.4	4	10.62	10.46	–	–	539	Ø	110	90	127				
SATURDAY																	
SUNDAY																	

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

AKC-0003000

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	3-10	7 AM	10.4	4	9.56	10.40	–	–	539	Ø	99	71	113				
		3 PM	10.1	4	11.36	10.52	–	–	992	2	123	128	124				
		11PM	10.1	4	10.73	11.29	–	–	1864	7	127	124	120				
TUESDAY	3-11	7 AM	10.1	4	11.03	11.20	–	–	1864	7	130	105	146				
		3 PM	10.1	4	9.73	11.02	–	–	Ø	3	126	122	122				
		11PM	10.1	3	9.71	10.38	–	–	1251	18	126	122	127				
WEDNESDAY	3-12	7 AM	10.1	3	9.69	10.41	–	–	1251	18	125	105	126				
		3 PM	9.8	3	10.46	10.25	–	–	Ø	5	121	128	120				
		11PM	9.9	3	9.93	10.17	–	–	734	3	113	125	125				
THURSDAY	3-13	7 AM	9.9	3	9.95	10.31	–	–	734	3	120	110	128				
		3 PM	9.8	3	9.73	10.15	–	–	Ø	Ø	113	128	121				
		11PM	9.9	2	10.18	10.36	–	–	1080	Ø	106	118	129				
FRIDAY	3-14	7 AM	9.9	2	9.82	10.05	–	–	1080	Ø	113	111	123				
		3 PM	9.9	16	10.38	9.84	–	–	Ø	6	120	130	116				
		11PM	9.7	15	9.98	10.28	–	–	929	6	104	127	123				
SATURDAY																	
SUNDAY																	

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

AKC-0003001

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	3/17	7 AM	9.7	15	10.06	10.28	–	–	929	6	92	79	117				
		3 PM	9.6	15	10.90	10.39	–	–	181	Ø	112	126	119				
		11PM	9.6	15	9.68	11.12	–	–	1018	Ø	108	124	123				
TUESDAY	3/18	7 AM	9.6	15	9.64	11.06	–	–	1018	Ø	102	110	133				
		3 PM	9.3	15	9.55	10.94	–	–	Ø	19	121	125	126				
		11PM	9.2	15	9.67	10.67	–	–	878	12	128	126	127				
WEDNESDAY	3/19	7 AM	9.2	15	10.29	10.60	–	–	878	14	117	112	127				MAJOR Acid spill to Sump cycles +6
		3 PM	8.3	15	9.67	10.46	–	–	Ø	17	134	128	121				
		11PM	8.3	15	10.28	10.65	–	–	879	2	123	121	126				
THURSDAY	3/20	7 AM	8.3	15	9.91	10.57	–	–	879	2	113	106	127				
		3 PM	7.7	15	9.82	10.40	–	–	Ø	2	124	120	122				
		11PM	7.9	15	9.79	10.51	–	–	646	7	132	128	127				
FRIDAY	3/21	7 AM	7.9	15	9.96	10.44	–	–	646	7	118	115	124				Floculent at IS all week? tried fixing - no luck
		3 PM	8.0	15	9.92	10.28	–	–	Ø	Ø	125	118	118				
		11PM	8.1	15	9.97	10.41	–	–	730	8	115	125	128				
SATURDAY																	
SUNDAY																	

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

AKC-0003002

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	3/24	7 AM	8.1	15	9.98	10.18	–	–	730	Ø	105	74	132				
		3 PM	7.9	15	9.83	10.13	–	–	730	Ø	120	125	124				
		11PM	7.7	15	10.95	10.35	–	–	1578	2	125	123	123				
TUESDAY	3/25	7 AM	7.7	15	11.24	10.28	–	–	1578	2	120	107	136				
		3 PM	7.6	13	9.88	10.40	–	–	156	Ø	135	123	123				
		11PM	7.6	10	10.96	10.96	–	–	652	Ø	123	120	128				
WEDNESDAY	3/26	7 AM	7.6	10	10.76	10.65	–	–	652	Ø	126	107	137				
		3 PM	7.7	10	9.89	10.51	–	–	Ø	3	128	127	128				
		11PM	7.4	5	10.51	10.53			839	2	122	126	126				
THURSDAY	3/27	7 AM	7.4	5	10.38	10.45	–	–	839	2	120	112	128				
		3 PM	7.1	5	11.65	10.33	–	–	839	3	119	119	127				
		11PM	7.1	3	9.84	10.43	–	–	1323	2	118	122	127				
FRIDAY	3/28	7 AM	7.1	3	9.88	10.45	–	–	1323	2	111	108	130				
		3 PM	6.9	15	9.65	10.34	–	–	Ø	5	135	128	113				
		11PM	6.7	12	10.67	10.71	–	–	878	1	128	123	128				
SATURDAY																	
SUNDAY																	

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

AKC-0003003