Industrial Waste Monthly Self-Monitoring Report

King County

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

AKC-000289

Company Name: ALASKAN COPPER WORKS **Sample Site No.** A-4010 **Permit/DA No.:** 7238-06

Please Specify Month & Year: **Month:** SEPTEMBER **2015** **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	10.3											997	
2		10.0	10.3											458	
(3)	C	10.3	10.4		.36	.24			.26		.05			380	
4		10.3	10.5											894	
5		------	------											------	
6		------	------											------	
7		------	------											------	
8		9.8	10.3											417	
9		10.1	10.3											862	
(10)	C	10.1	10.2		.17	.15					.05			651	
11		9.9	10.5											377	
12		------	------											------	
13		------	------											------	
14		10.1	10.4											734	
15		9.8	10.0											1198	
16		9.8	10.2											579	
(17)	C	10.0	11.2		.12	.11					.05			490	
18		10.4	11.0											1038	
19		------	------											------	
20		------	------											------	
21		9.7	10.1											442	
22		9.7	10.3											1048	
23		10.2	10.2											474	
(24)	C	10.1	10.2		.31	.88			1.01		.05			304	
25		10.1	10.4											121	
26		------	------											------	
27		------	------											------	
28		10.2	10.3											493	
29		10.1	10.3											437	
30		10.0	10.7											1270	
31		------	------	------	------	------	------	------	------	------	------	------	------	------	

Sep 2015

Monthly Min pH	9.7	& Date	9/27/15
Monthly Max pH	11.2	& Date	9/17/15

Total Monthly Flow (gallons): 13664

Maximum Daily Flow: 1198 & Date: 9/15/15

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

10/8/15
Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

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31		------	------	------	------	------	------	------	------	------	------	------	------	------	

Monthly Min pH	9.7	& Date	9/27/15
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10/8/15
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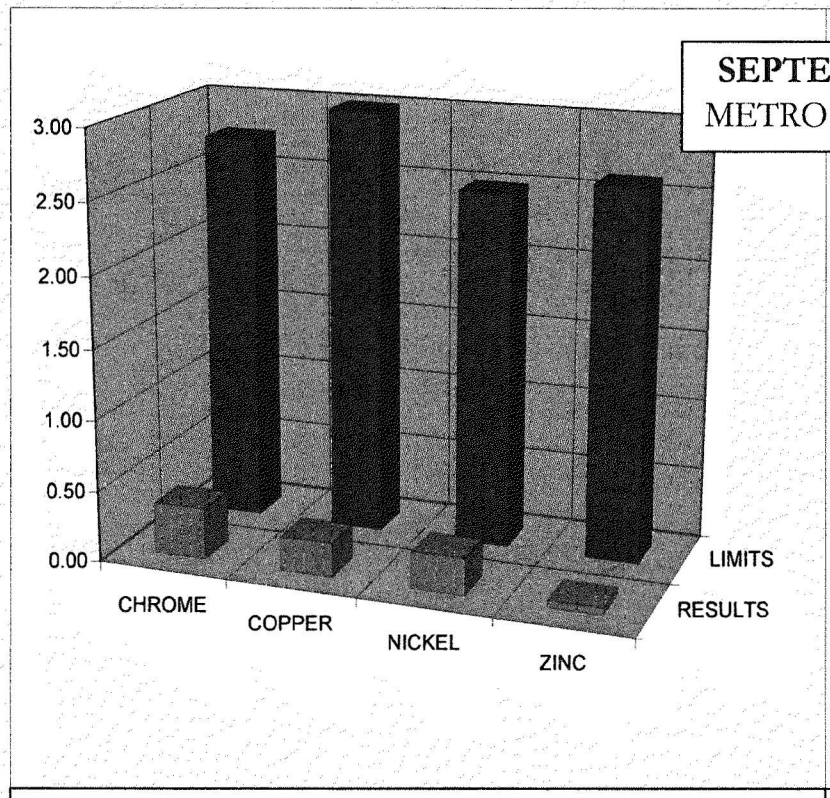
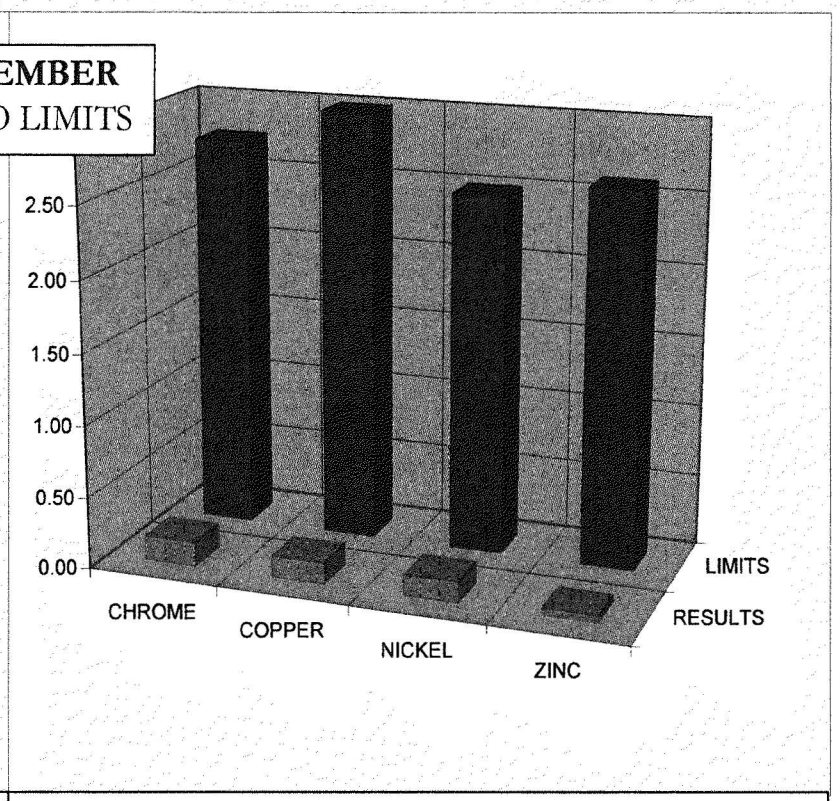




ALASKAN COPPER WORKS	ALASKAN COPPER WORKS
3200 FACILITY	3200 FACILITY
SEPTEMBER 3, 2015	SEPTEMBER 10, 2015
COMPOSITE M136708	COMPOSITE M136709

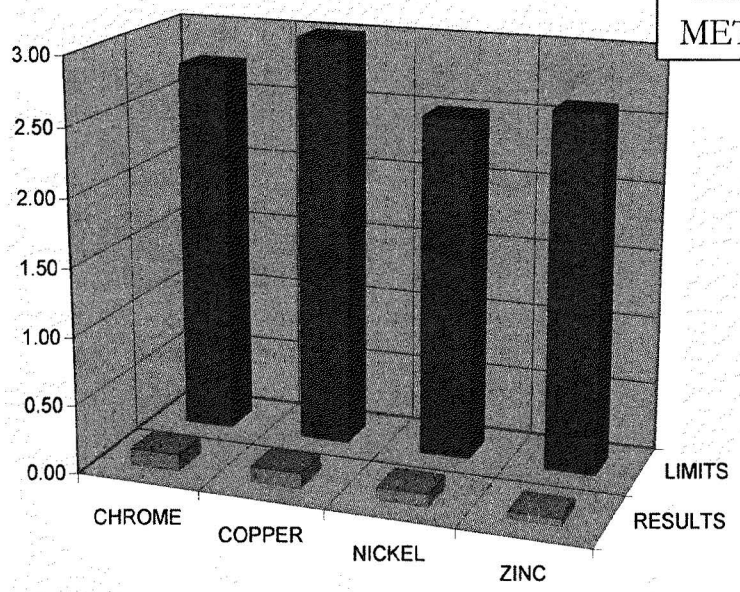
VISUAL REPRESENTATION OF THE LAB RESULTS

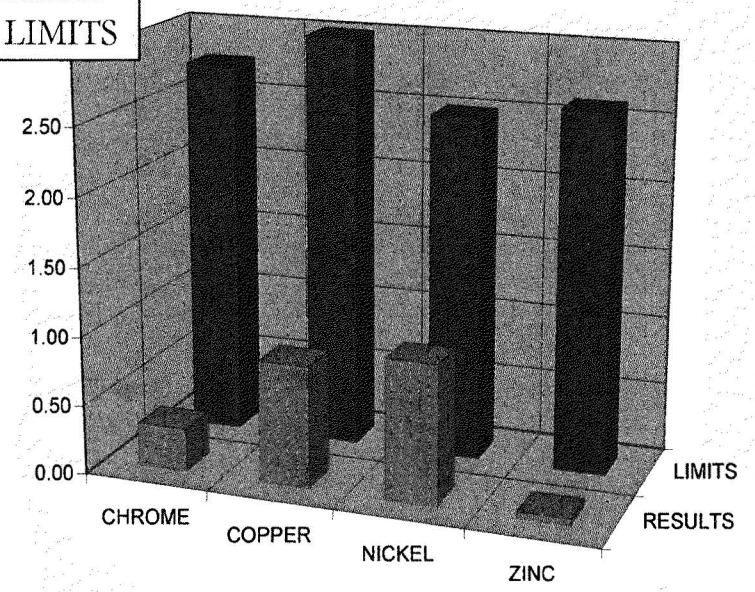
NOTE: ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.36	0.24	0.26	0.05
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.17	0.15	0.15	0.05
LIMITS	2.75	3.00	2.50	2.61

SEPTEMBER
METRO LIMITS





ALASKAN COPPER WORKS
3200 FACILITY
SEPTEMBER 17, 2015
COMPOSITE M136710

ALASKAN COPPER WORKS
3200 FACILITY
SEPTEMBER 24, 2015
COMPOSITE M136711

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	0.11	0.09	0.05
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.31	0.88	1.01	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:	M136708	Client:	Alaskan Copper Works
Date Received:	09/03/15	Project:	Metro Self Monitor, F&BI 509077
Date Extracted:	09/09/15	Lab ID:	509077-01 x10
Date Analyzed:	09/09/15	Data File:	509077-01 x10.030
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	SP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	77	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	363
Copper	243
Nickel	265
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M136709	Client:	Alaskan Copper Works
Date Received:	09/10/15	Project:	Metro Self Monitor, M136709 PO
Date Extracted:	09/16/15	Lab ID:	509168-01 x10
Date Analyzed:	09/16/15	Data File:	509168-01 x10.016
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	SP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	179
Copper	158
Nickel	159
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M136710	Client:	Alaskan Copper Works
Date Received:	09/17/15	Project:	Metro Self Monitor M136710
Date Extracted:	09/21/15	Lab ID:	509304-01 x10
Date Analyzed:	09/21/15	Data File:	509304-01 x10.027
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	SP

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

Analyte:	Concentration ug/L (ppb)
Chromium	125
Copper	110
Nickel	97.8
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M136711	Client:	Alaskan Copper Works
Date Received:	09/24/15	Project:	Metro Self Monitor, PO M136711
Date Extracted:	09/28/15	Lab ID:	509433-01 x10
Date Analyzed:	09/28/15	Data File:	509433-01 x10.024
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	SP

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

Analyte:	Concentration ug/L (ppb)
Chromium	311
Copper	882
Nickel	1,010
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M136707	Client:	Alaskan Copper Works
Date Received:	09/03/15	Project:	Lead M136707, F&BI 509078
Date Extracted:	09/04/15	Lab ID:	509078-01
Date Analyzed:	09/04/15	Data File:	509078-01.032
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	SP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	93	60	125

Analyte:	Concentration mg/kg (ppm)
Lead	431

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	8-31	7 AM	9.3	12	10.65	10.01	–	–	685.6	31	119	117	116				
		3 PM	9.1	10	10.49	10.09	–	–	457.2	7	127	118	129				
		11PM	8.9	1	10.39	10.35	–	–	997.6	7	125	121	114				
TUESDAY	9-1	7 AM	8.9	1	9.86	10.20	–	–	997.6	7	127	123	106				
		3 PM	8.6	13	9.63	10.30	–	–	171.4	8	119	122	125				
		11PM	8.6	13	9.55	10.25	–	–	458.2	13	118	128	116				
WEDNESDAY	9-2	7 AM	8.6	13	11.15	10.19	–	–	458.2	22	128	120	117				
		3 PM	8.6	13	10.09	10.09	–	–	Ø	Ø	127	129	118				
		11PM	8.4	10	11.15	10.39	–	–	380.6	8	124	120	121				
THURSDAY	9-3	7 AM	8.4	10	11.04	10.31	–	–	Ø	8	106	96	106				Power off Need to reset ?
		3 PM	8.4	9	10.10	10.35	–	–	545.3	Ø	118	129	118				
		11PM	8.1	8	9.66	10.46	–	–	894.9	14	122	119	117				
FRIDAY	9-4	7 AM	8.1	8	7.51	10.41	–	–	894.9	18	119	125	104				
		3 PM	8.1	8	11.02	10.33	–	–	Ø	4	122	122	128				
		11PM	7.9	5	11.36	10.50	–	–	417.9	22	123	114	122				
SATURDAY																	
SUNDAY																	

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

AKC-0002905

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~~ Tues	9-8	7 AM	7.9	5	10.68	10.22	–	–	417.9	22	127	123	95				
		3 PM	7.6	16	10.41	9.88	–	–	398.1	5	127	126	90				
		11PM	7.6	12	10.82	10.32	–	–	862.7	16	125	116	126				
~~TUESDAY~~ Wed	9-9	7 AM	7.6	12	10.67	10.18	–	–	862.7	16	126	130	112				
		3 PM	7.4	12	10.98	10.24	–	–	263.5	10	128	129	129				
		11PM	7.0	10	10.66	10.35	–	–	650.9	22	126	116	119				
~~WEDNESDAY~~ Thurs	9-10	7 AM	7.0	10	8.71	10.26	–	–	651.0	27	128	124	107				
		3 PM	6.8	10	11.02	10.28	–	–	162.8	16	127	130	126				
		11PM	6.5	7	10.77	10.12	–	–	376.9	25	128	119	125				
~~THURSDAY~~ Fri	9-11	7 AM	6.5	7	10.36	10.07	–	–	376.9	25	128	129	112				
		3 PM	6.5	7	9.52	9.97	–	–	∅	7	128	128	128				
		11PM	6.0	1	11.51	10.56	–	–	734.5	4	124	126	123				
FRIDAY	9-12	7 AM															
		3 PM															
		11PM															
SATURDAY																	
SUNDAY																	

AKC-0002906

..\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° OAKITE TANK	REVETMENT LARGE RINSE	REVETMENT LARGE ACID	REVETMENT SMALL TANKS	COMMENTS,PROBLEMS,& REMARKS (W/O#)
MONDAY	9/14	7 AM	6.1	1	11.07	10.40	—	—	734.5	4	126	129	134				
		3 PM	5.8	15	11.50	10.32	—	—	178.3	3	126	130	125				
		11PM	5.8	10	9.99	10.17	—	—	1198.8	Ø	126	OPEN	123				
TUESDAY	9/15	7 AM	5.8	10	10.82	10.09	—	—	1198.8	9	112	OPEN	114				
		3 PM	5.5	10	9.65	9.93	—	—	415	9	120	134	122				
		11PM	5.3	8	10.07	9.88	—	—	579.8	Ø	122	126	115				
WEDNESDAY	9/16	7 AM	5.3	8	10.47	9.81	—	—	579.8	3	127	121	105				open-close-on pac press not working - ~~[illegible]~~
		3 PM	5.3	8	9.73	9.96	—	—	168.4	19	127	133	127				
		11PM	5.0	5	9.65	10.20	—	—	490.1	33	118	123	124				
THURSDAY	9/17	7 AM	5.0	5	10.55	10.11	—	—	490.1	42	124	131	111				Pac PRESS FIXED
		3 PM	4.8	17	9.97	10.03	—	—	Ø	Ø	127	124	124				
		11PM	4.8	13	10.74	11.21	—	—	1038.1	11	119	135	120				
FRIDAY	9/18	7 AM	4.8	13	10.58	11.08	—	—	1038.1	11	128	120	112				
		3 PM	4.8	11	9.53	10.89	—	—	160.6	Ø	127	126	126				
		11PM	4.8	10	9.52	10.42	—	—	442.3	1	119	132	124				
SATURDAY																	
SUNDAY																	

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

AKC-0002907

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	9-21	7 AM	4.8	10	9.80	10.15	–	–	Ø	5	77	78	117				Power had to be shut down to replace fuse!
		3 PM	4.3	8	9.71	9.86	–	–	730.5	2	128	121	127			42	
		11PM	4.3	5	10.13	9.69	–	–	1048.8	Ø	119	122	126				
TUESDAY	9-22	7 AM	4.3	5	11.24	9.72	–	–	1048.8	7	128	127	111				Kit reset 1342 1048 474
		3 PM	4.0	5	10.37	9.73	–	–	1253	Ø	120	129	125				
		11PM	4.0	2	9.64	10.30	–	–	1522.7	Ø	125	117	122				
WEDNESDAY	9-23	7 AM	4.0	2	9.48		–	–	1522.7	6	127	128	112				
		3 PM	3.9	17	11.48	10.20	–	–	Ø	8	119	120	124				
		11PM	3.8	15	9.90	10.24	–	–	304.0	8	124	123	122				
THURSDAY	9-24	7 AM	3.8	15	9.33	10.24	–	–	304.0	11	126	128	112				
		3 PM	3.8	15	10.25	10.12	–	–	Ø	1	120	128	124				
		11PM	3.8	15	9.81	10.16	–	–	120.7	1	126	123	132				
FRIDAY	9-25	7 AM	3.8	15	10.40	10.14	–	–	120.7	22	124	128	115				
		3 PM	3.8	15	11.32	10.12	–	–	Ø	Ø	119	122	126				
		11PM	3.8	13	9.64	10.45	–	–	493.0	Ø	123	118	118				
SATURDAY																	
SUNDAY																	

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

AKC-0002908