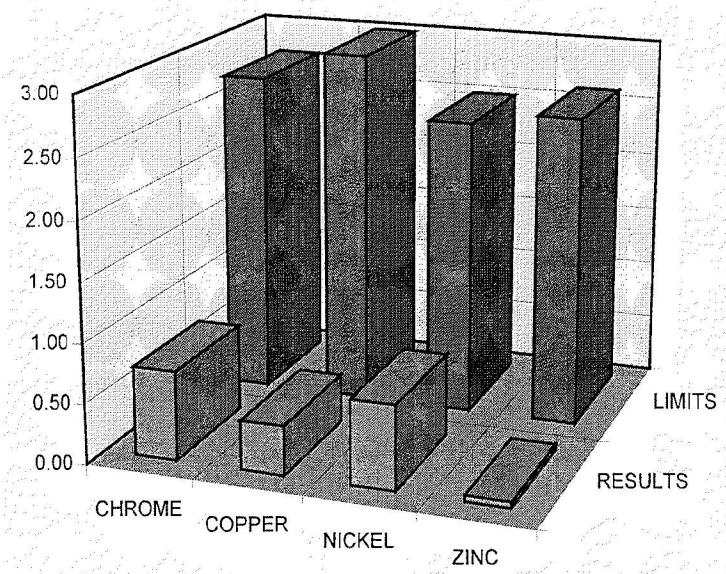
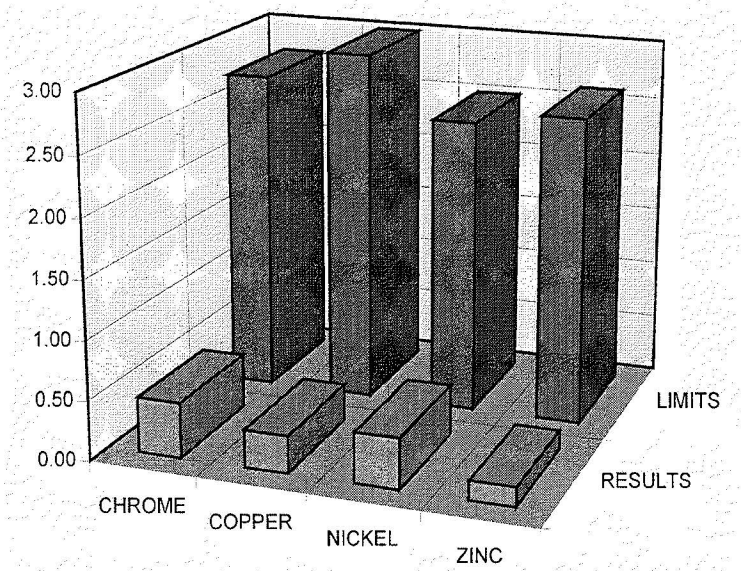
JULY
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
JULY 6, 2000
COMPOSITE M64511



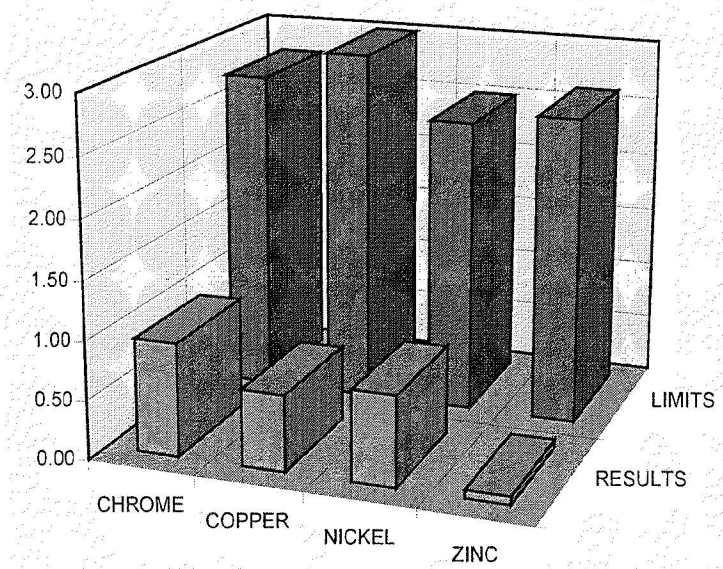
ALASKAN COPPER WORKS
3200 FACILITY
JULY 14, 2000
COMPOSITE M64541

VISUAL REPRESENTATION OF THE LAB RESULTS

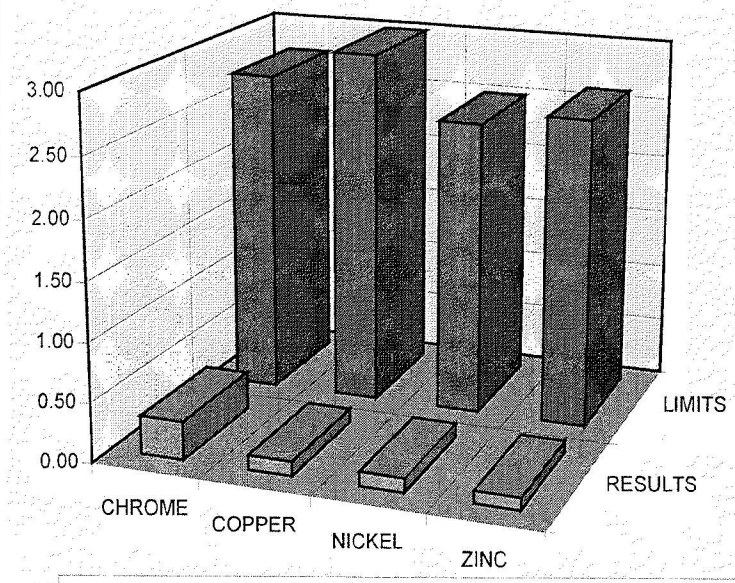
	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.74	0.41	0.70	0.05
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.46	0.31	0.42	0.16
LIMITS	2.75	3.00	2.50	2.61

JULY
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
JULY 20, 2000
COMPOSITE M64564



ALASKAN COPPER WORKS
3200 FACILITY
JULY 27, 2000
COMPOSITE M64604

VISUAL REPRESENTATION OF THE LAB RESULTS

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.96	0.64	0.76	0.07
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.32	0.12	0.12	0.10
LIMITS	2.75	3.00	2.50	2.61

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	7/3	7 AM	6.0	14	10.74	10.19	/	/	2339	105	128	129	123				
		3 PM	5.5	13	11.00	10.21	/	/	739	46	123	124	129				
		11PM	4.7	10	10.01	10.65	/	/	2245	116	125	124	123				
TUESDAY	7/4	7 AM															
		3 PM															
		11PM															
WEDNESDAY	7/5	7 AM	4.2	10	11.83	10.58	/	/	2627	119	122	120	123				
		3 PM	3.9	7	11.62	10.46	/	/	545	43	125	124	125				
		11PM	3.1	6	10.01	10.39	—	—	2069	101	121	125	123				
THURSDAY	7/6	7 AM	2.6	5	9.68	10.54	/	/	2378	116	114	114	122				
		3 PM	25.3	20	11.00	10.53	/	/	423	39	109	110	120				
		11PM	24.3	18	9.85	10.45	—	—	1854	120	117	124	121				
FRIDAY	7/7	7 AM	24.3	18	10.52	10.40	/	/	2236	125	122	122	128				
		3 PM	23.8	15	11.62	10.34	/	/	628	43	127	126	127				
		11PM	22.2	13	11.11	10.39	—	—	2271	147	123	126	124				
SATURDAY																	
SUNDAY																	

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

AKC-0010045

REF. DWG NO. 500-0007 REV. A 1554

DAILY LOG

COMMENTS PROBLEMS & REMARKS (W/OH)

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
MONDAY	7/10	7 AM	22.3	13	10.56	10.22	/	/	2677	170	128	125	125			
		3 PM	21.7	10	10.44	10.07	/	/	1018	26	122	120	125			
		11PM	20.4	7	10.43	10.16	—	—	2278	252	128	126	123			
TUESDAY	7/11	7 AM	20.4	7	9.77	10.25	/	/	2677	45	120	124	126			
		3 PM	19.9	4	10.02	10.33	/	/	590	43	124	130	126			
		11PM	19.4	2	10.00	10.32	/	/	1574	63	119	129	122			
WEDNESDAY	7/12	7 AM	19.1	2	9.58	10.37	/	/	2098	83	126	130	131			
		3 PM	18.3	16	10.57	10.60	/	/	79	61	125	126	130			
		11PM	17.0	12	9.99	10.78	/	/	2574	151	123	126	123			
THURSDAY	7/13	7 AM	16.8	12	11.74	10.74	/	/	2764	170	119	123	125			
		3 PM	~~14.5~~													
		11PM	14.5	5	10.14	10.77	/	/	2561	108	124	123	121			
FRIDAY	7/14	7 AM	Error	3	10.42	10.74	/	/	3074	125	122	122	128			
		3 PM	13.5	17	9.91	10.72	/	/	864	38	122	123	129			
		11PM	12.5	14	9.75	10.89	/	/	2900	116	123	122	121			
SATURDAY																
SUNDAY																

AKC-0010046

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	7/12	7 AM	12.3	10	11.40	10.42	/	/	3271	132	120	127	125				Reset to Reset Flow
		3 PM	11.2	8	9.95	10.31	/	/	4268	99	119	127	129				
		11PM	10.7	7	9.90	10.43	/	/	5065	141	122	128	120				
TUESDAY	7/13	7 AM	10.4	5	10.26	9.54	/	/	2305 5576	176	119	124	129				5576 3271 2305
		3 PM	9.9	17	10.26	10.99	/	/	730	13	128	123	129				
		11PM															
WEDNESDAY	7/15	7 AM	9.4	14	10.76	11.75	/	/	3557	17	118	130	126				
		3 PM	9.1	13	10.84	11.65	/	/	351	3	123	121	128				
		11PM	9.1	12	10.01	11.40	/	/	983	19	125	124	122				
THURSDAY	7/20	7 AM	8.3	11	10.04	11.41	/	/	1550	71	124	125	132				
		3 PM	8.1	10	9.76	11.04	/	/	492	21	121	121	129				
		11PM	7.6	8	9.99	10.03	/	/	1455	53	125	121	122				
FRIDAY	7/21	7 AM	7.6	7	10.88	11.06	/	/	1860	64	122	123	128				
		3 PM	7.3	7	9.54	11.14	/	/	346	15	118	124	130				
		11PM	6.2	5	9.61	11.00	/	/	1389	89	121	122	123				
SATURDAY																	
SUNDAY																	

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

AKC-0010047

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	7/24	7 AM	3.9	16	9.65	10.80	/	/	1528	28	122	120	170				Worked this week-end 2 shifts Pump had hole in Bladder did not work Correctly they Kept working causing major flood
		3 PM	14.9	14	11.52	11.07	/	/	1337	14	120	126	126				
		11PM	14.4	11	11.02	11.06	/	/	2201	73	121	127	120				
TUESDAY	7/25	7 AM	13.9	8	10.19	11.26	/	/	2853	107	125	125	125				
		3 PM	12.8	7	10.01	11.78	/	/	893	31	125	122	120				
		11PM	12.3	5	10.00	11.64	/	/	2216	31?	122	128	122				
WEDNESDAY	7/26	7 AM	11.8	4	10.60	11.58	/	/	2884	58?	125	121	133				
		3 PM	11.2	18	10.14	11.56	/	/	747	40	126	120	127				
		11PM	10.7	15	10.01	11.54	/	/	1520	70	122	124	122				
THURSDAY	7/27	7 AM	10.5	15	10.80	11.52	/	/	1784	94	125	120	130				
		3 PM	9.2	13	9.54	11.75	/	/	1045	31	128	121	126				
		11PM	8.1	9	10.00	11.75	/	/	2331	81	116	124	122				
FRIDAY	7/28	7 AM	8.1	7	10.48	11.68	/	/	2508	95	111	115	132				
		3 PM	7.6	8	10.04	11.81	/	/	632	27	114	125	126				
		11PM	6.3	3	9.53	11.65	/	/	1817	83	124	122	123				
SATURDAY																	
SUNDAY																	

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

AKC-00100484

Date Extracted: 07/20/00
Date Analyzed: 07/20/00

RESULTS FROM THE ANALYSIS OF THE AQUEOUS SAMPLES FOR SPECIFIC GRAVITY @ 15.56 °C

Sample ID Laboratory ID	Specific Gravity
M64540A Large 007055-01	1.1
M64540B Small 007055-02	1.1
Method Blank	0.86

DRAFT

Date Extracted: 07/20/00
Date Analyzed: 07/20/00

RESULTS FROM THE ANALYSIS OF THE AQUEOUS SAMPLES FOR PERCENT ACID CONTENT

Sample ID Laboratory ID	% Acid
M64540A Large 007055-01	11
M64540B Small 007055-02	11

DRAFT

Date Extracted: 07/20/00
Date Analyzed: 07/20/00

RESULTS FROM THE ANALYSIS OF THE AQUEOUS SAMPLES FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as µg/g (ppm)

Sample ID Laboratory ID	Total Iron
M64540A Large 007055-01	19,000
M64540B Small 007055-02	14,000
Method Blank	<10.0

DRAFT