Samples for this project were analyzed for total cyanide by SW846 method 9010/9012. Due to QC excursions, as noted on the accompanying spreadsheet, affected samples were redistilled and/or reanalyzed. These re-analyses were conducted outside the 14 day holding time. STL St. Louis has composed a spreadsheet documenting all the cyanide runs conducted on these project samples. In cases where samples were analyzed more than once, the individual runs were evaluated by our QA staff and we have selected what we believe to be the most meaningful results.

The evaluation process attempted to qualify the extent of the QC excursions (e.g. method blank detections above the reporting limit, LCS recovery excursion) versus the extent of re-analyses outside holding time. For example, marginal LCS recovery excursions for samples analyzed within holding time were noted as more beneficial than an acceptable LCS for samples analyzed outside holding time. Holding time was evaluated at both 14 days (1X) and 28 days (2X). Re-analyses outside 1X holding time with marginal QC performance were considered more beneficial than re-analyses outside 2X holding time with acceptable QC performance. Whether or not the analysis was conducted within the 1X or 2X holding time is noted on the spreadsheet. The sample analysis selected to be reported has been highlighted in green (and black in the leftmost column) on the spreadsheet.

For the majority of the project samples, irrespective of QC excursion or holding time, sample results are comparable across the individual runs. Likewise, project samples analyzed within holding time with acceptable QC results are comparable to other samples in this same project, which required multiple re-analyses.

CN Data Analyses

Reported Analysis	Laboratory Lot ID	Laboratory Work Order #	SDG	Sample Collection Date	Batch #	Cyanide Result	Cyanide Result (%moisture corrected)	% solid result	Units	Preparation Date	Analysis Date	Prepared in 14 day Hold Time?	Prepared in 2X (28 day) Hold Time?	QC comments
[redacted]	F6K030310001	JHXJ01CW	ENSR110306	11/2/06	6318366	ND	ND	95.35	mg/kg	11/13/06	11/16/06	yes	yes	
	F6K030310002	JHXRM1C5	ENSR110306	11/2/06	6318366	ND	ND	93.53	mg/kg	11/13/06	11/16/06	yes	yes	
	F6K030310003	JHXT21CG	ENSR110306	11/2/06	6318366	ND	ND	90.12	mg/kg	11/13/06	11/16/06	yes	yes	
	F6K030310004	JHXV21CM	ENSR110306	11/2/06	6320553	ND	ND	N/A	ug/L	11/16/06	12/04/06	yes	yes	LCS low (77%) HCS acceptable
	F6K030310004	JHXV21CM	ENSR110306	11/2/06	6320553	ND	ND	N/A	ug/L	12/06/06	12/13/06	no	no	LCS acceptable
[redacted]	F6K030310005	JHXXL1CU	ENSR110306	11/2/06	6320553	ND	ND	N/A	ug/L	11/16/06	12/04/06	yes	yes	LCS low (77%) HCS acceptable
	F6K030310005	JHXXL1CU	ENSR110306	11/2/06	6320553	ND	ND	N/A	ug/L	12/06/06	12/13/06	no	no	LCS acceptable
[redacted]	F6K040210001	JH1MX1CW	ENSR110306	11/3/06	6318366	ND	ND	86.77	mg/kg	11/13/06	11/16/06	yes	yes	
	F6K040210002	JH1NA1C2	ENSR110306	11/3/06	6318366	ND	ND	92.63	mg/kg	11/13/06	11/16/06	yes	yes	
	F6K040210003	JH1ND1C2	ENSR110306	11/3/06	6318366	ND	ND	93.85	mg/kg	11/13/06	11/16/06	yes	yes	
	F6K040210004	JH1NH1C2	ENSR110306	11/3/06	6318366	ND	ND	88.05	mg/kg	11/13/06	11/16/06	yes	yes	
	F6K040210005	JH1NN1C2	ENSR110306	11/3/06	6318366	ND	ND	88.56	mg/kg	11/13/06	11/16/06	yes	yes	LCS acceptable; LSCD high (120%); high bias ND
	F6K040210006	JH1NQ1C2	ENSR110306	11/3/06	6318366	ND	ND	88.05	mg/kg	11/13/06	11/16/06	yes	yes	LCS acceptable; LSCD high (120%); high bias ND
	F6K040210007	JH1NV1C2	ENSR110306	11/3/06	6318366	ND	ND	76.99	mg/kg	11/13/06	11/16/06	yes	yes	LCS acceptable; LSCD high (120%); high bias ND
	F6K040210008	JH1N11C2	ENSR110306	11/3/06	6318366	ND	ND	92.69	mg/kg	11/13/06	11/16/06	yes	yes	LCS acceptable; LSCD high (120%); high bias ND
	F6K040210009	JH1N31C2	ENSR110306	11/3/06	6318366	ND	ND	94.87	mg/kg	11/13/06	11/16/06	yes	yes	LCS acceptable; LSCD high (120%); high bias ND
	F6K040210010	JH1N61C2	ENSR110306	11/3/06	6318366	ND	ND	78.69	mg/kg	11/13/06	11/16/06	yes	yes	LCS acceptable; LSCD high (120%); high bias ND
	F6K040210011	JH1N81C2	ENSR110306	11/3/06	6318366	ND	ND	92.19	mg/kg	11/13/06	11/16/06	yes	yes	LCS acceptable; LSCD high (120%); high bias ND
	F6K040210012	JH1PD1C2	ENSR110306	11/3/06	6318366	ND	ND	94.01	mg/kg	11/13/06	11/16/06	yes	yes	LCS acceptable; LSCD high (120%); high bias ND
	F6K040210013	JH1PJ1C2	ENSR110306	11/3/06	6318366	ND	ND	80.59	mg/kg	11/13/06	11/16/06	yes	yes	LCS acceptable; LSCD high (120%); high bias ND
	F6K040210014	JH1PN1C2	ENSR110306	11/3/06	6320298	ND	ND	85.3	mg/kg	11/16/06	11/16/06	yes	yes	LCS/LCSD acceptable
	F6K070276001	JH5HQ1CW	ENSR110306	11/6/06	6320298	ND	ND	84.72	mg/kg	11/16/06	11/16/06	yes	yes	LCS/LCSD acceptable
	F6K070276002	JH5H11CX	ENSR110306	11/6/06	6320298	ND	ND	66.93	mg/kg	11/16/06	11/16/06	yes	yes	LCS/LCSD acceptable
	F6K070276003	JH5H81CX	ENSR110306	11/6/06	6320298	ND	ND	67.91	mg/kg	11/16/06	11/16/06	yes	yes	LCS/LCSD acceptable
	F6K070276004	JH5JA1CX	ENSR110306	11/6/06	6320298	ND	ND	81.62	mg/kg	11/16/06	11/16/06	yes	yes	LCS/LCSD acceptable
	F6K070276005	JH5JD1CX	ENSR110306	11/6/06	6320298	ND	ND	83.25	mg/kg	11/16/06	11/16/06	yes	yes	LCS/LCSD acceptable
	F6K070276006	JH5JR1C0	ENSR110306	11/6/06	6320298	ND	ND	84	mg/kg	11/16/06	11/16/06	yes	yes	LCS/LCSD acceptable
	F6K070276007	JH5JW1CX	ENSR110306	11/6/06	6320298	ND	ND	89.13	mg/kg	11/16/06	11/16/06	yes	yes	LCS/LCSD acceptable
	F6K070276008	JH5J01CM	ENSR110306	11/6/06	6320553	ND	ND	N/A	ug/L	11/16/06	12/04/06	yes	yes	LCS low (77%) HCS acceptable
	F6K070276008	JH5J01CM	ENSR110306	11/6/06	6320553	ND	ND	N/A	ug/L	12/06/06	12/13/06	no	no	LCS acceptable
[redacted]	F6K070276010	JH5KL1CP	ENSR110306	11/6/06	6320553	ND	ND	N/A	ug/L	11/16/06	12/04/06	yes	yes	LCS low (77%) HCS acceptable
	F6K070276010	JH5KL1CP	ENSR110306	11/6/06	6320553	ND	ND	N/A	ug/L	12/06/06	12/13/06	no	no	LCS acceptable
[redacted]	F6K080215001	JH7LQ1CM	ENSR110306	11/7/06	6320553	ND	ND	N/A	ug/L	11/16/06	12/04/06	yes	yes	LCS low (77%) HCS acceptable
	F6K080215001	JH7LQ1CM	ENSR110306	11/7/06	6320553	ND	ND	N/A	ug/L	12/06/06	12/13/06	no	no	LCS acceptable
[redacted]	F6K080215002	JH7NQ1CT	ENSR110306	11/7/06	6320553	ND	ND	N/A	ug/L	11/16/06	12/04/06	yes	yes	LCS low (77%) HCS acceptable
	F6K080215002	JH7NQ1CT	ENSR110306	11/7/06	6320553	ND	ND	N/A	ug/L	12/06/06	12/13/06	no	no	LCS acceptable
[redacted]	F6K080215003	JH7P81CT	ENSR110306	11/7/06	6320553	ND	ND	N/A	ug/L	11/16/06	12/04/06	yes	yes	LCS low (77%) HCS acceptable
	F6K080215003	JH7P81CT	ENSR110306	11/7/06	6320553	ND	ND	N/A	ug/L	12/06/06	12/13/06	no	no	LCS acceptable
[redacted]	F6K080215007	JH7T51CV	ENSR110306	11/7/06	6320298	ND	ND	91.72	mg/kg	11/16/06	11/16/06	yes	yes	LCS/LCSD acceptable
	F6K080215008	JH7VJ1C0	ENSR110306	11/7/06	6320298	ND	ND	60.91	mg/kg	11/16/06	11/16/06	yes	yes	LCS/LCSD acceptable
	F6K080215009	JH7VM1CA	ENSR110306	11/7/06	6320298	ND	ND	72.42	mg/kg	11/16/06	11/16/06	yes	yes	LCS/LCSD acceptable
	F6K080215010	JH7VW1CF	ENSR110306	11/7/06	6320298	ND	ND	89.99	mg/kg	11/16/06	11/16/06	yes	yes	LCS/LCSD acceptable
	F6K080215011	JH7WM1CM	ENSR110306	11/7/06	6320298	ND	ND	90.48	mg/kg	11/16/06	11/16/06	yes	yes	LCS/LCSD acceptable
	F6K080215012	JH7WX1CP	ENSR110306	11/7/06	6320298	ND	ND	86.83	mg/kg	11/16/06	11/16/06	yes	yes	LCS/LCSD acceptable
	F6K080215013	JH7W71CR	ENSR110306	11/7/06	6320298	ND	ND	74.2	mg/kg	11/16/06	11/16/06	yes	yes	LCS/LCSD acceptable
	F6K080215014	JH7XE1CU	ENSR110306	11/7/06	6320298	ND	ND	64.43	mg/kg	11/16/06	11/16/06	yes	yes	LCS/LCSD acceptable
	F6K080215015	JH7XJ1CW	ENSR110306	11/7/06	6320310	ND	ND	67.6	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (89%) HCS acceptable
	F6K080215015	JH7XJ1CW	ENSR110306	11/7/06	6320310	ND	ND	67.6	mg/kg	12/08/06	12/13/06	no	no	LCS low (70%)
[redacted]	F6K090232002	JJCA21CK	ENSR110306	11/8/06	6326322	ND	ND	N/A	ug/L	11/22/06	11/27/06	yes	yes	LCS acceptable
	F6K090232003	JJCA21CK	ENSR110306	11/8/06	6326322	ND	ND	N/A	ug/L	11/22/06	12/04/06	yes	yes	LCS low (86%) blanks running ~ 3ppb
[redacted]	F6K090232003	JJCD11CK	ENSR110306	11/8/06	6320553	ND	ND	N/A	ug/L	11/16/06	12/04/06	yes	yes	LCS low (77%) HCS acceptable
	F6K090232003	JJCD11CK	ENSR110306	11/8/06	6320553	ND	ND	N/A	ug/L	12/06/06	12/13/06	no	yes	LCS acceptable
[redacted]	F6K090232004	JJCER1CK	ENSR110306	11/8/06	6320553	ND	ND	N/A	ug/L	11/16/06	12/04/06	yes	yes	LCS low (77%) HCS acceptable
	F6K090232004	JJCER1CK	ENSR110306	11/8/06	6320553	ND	ND	N/A	ug/L	12/06/06	12/13/06	no	yes	LCS acceptable

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[redacted]	F6K090232007	JJCG61C0	ENSR110306	11/8/06	6320310	ND		ND	91.33	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (89%) HCS acceptable
	F6K090232007	JJCG61C0	ENSR110306	11/8/06	6320310	ND		ND	91.33	mg/kg	12/08/06	12/13/06	no	no	LCS low (70%)
[redacted]	F6K090232008	JJCH31CA	ENSR110306	11/8/06	6320310	ND		ND	88.47	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (89%) HCS acceptable
	F6K090232008	JJCH31CA	ENSR110306	11/8/06	6320310	ND		ND	88.47	mg/kg	12/08/06	12/13/06	no	no	LCS low (70%)
[redacted]	F6K090232009	JJCJT1CG	ENSR110306	11/8/06	6320310	ND		ND	80.63	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (89%) HCS acceptable
	F6K090232009	JJCJT1CG	ENSR110306	11/8/06	6320310	ND		ND	80.63	mg/kg	12/08/06	12/13/06	no	no	LCS low (70%)
[redacted]	F6K090232010	JJCJ41CJ	ENSR110306	11/8/06	6320310	ND		ND	62.54	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (89%) HCS acceptable
	F6K090232010	JJCJ41CJ	ENSR110306	11/8/06	6320310	ND		ND	62.54	mg/kg	12/08/06	12/13/06	no	no	LCS low (70%)
[redacted]	F6K090232011	JJCKC1CJ	ENSR110306	11/8/06	6320310	ND		ND	80.95	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (89%) HCS acceptable
	F6K090232011	JJCKC1CJ	ENSR110306	11/8/06	6320310	ND		ND	80.95	mg/kg	12/08/06	12/13/06	no	no	LCS low (70%)
[redacted]	F6K090232012	JJCKX1CL	ENSR110306	11/8/06	6320310	ND		ND	86.6	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (89%) HCS acceptable
	F6K090232012	JJCKX1CL	ENSR110306	11/8/06	6320310		1.033	1.19284065	86.6	mg/kg	12/08/06	12/13/06	no	no	LCS low (70%)
[redacted]	F6K090232013	JJCPW1CJ	ENSR110306	11/8/06	6320310	ND		ND	85.17	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (89%) HCS acceptable
	F6K090232013	JJCPW1CJ	ENSR110306	11/8/06	6320310	ND		ND	85.17	mg/kg	12/08/06	12/13/06	no	no	LCS low (70%)
[redacted]	F6K090232014	JJCP71CN	ENSR110306	11/8/06	6320310	ND		ND	91	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (89%) HCS acceptable
	F6K090232014	JJCP71CN	ENSR110306	11/8/06	6320310	ND		ND	91	mg/kg	12/08/06	12/13/06	no	no	LCS low (70%)
[redacted]	F6K090232015	JJCQG1CU	ENSR110306	11/8/06	6320310	ND		ND	90.73	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (89%) HCS acceptable
	F6K090232015	JJCQG1CU	ENSR110306	11/8/06	6320310	ND		ND	90.73	mg/kg	12/08/06	12/13/06	no	no	LCS low (70%)
[redacted]	F6K090232016	JJCQ21CV	ENSR110306	11/8/06	6320310	ND		ND	73.46	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (89%) HCS acceptable
	F6K090232016	JJCQ21CV	ENSR110306	11/8/06	6320310	ND		ND	73.46	mg/kg	12/08/06	12/13/06	no	no	LCS low (70%)
[redacted]	F6K090232017	JJCQ51CW	ENSR110306	11/8/06	6320310	ND		ND	72.72	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (89%) HCS acceptable
	F6K090232017	JJCQ51CW	ENSR110306	11/8/06	6320310		0.544	0.74807481	72.72	mg/kg	12/08/06	12/13/06	no	no	LCS low (70%)
[redacted]															
[redacted]	F6K100205002	JJFLD1CT	ENSR111006	11/9/06	6326322	ND		ND	N/A	ug/L	11/22/06	11/27/06	yes	yes	LCS acceptable
	F6K100205002	JJFLD1CT	ENSR111006	11/9/06	6326322	ND		ND	N/A	ug/L	11/22/06	12/04/06	yes	yes	LCS low (86%) blanks running ~ 3ppb
[redacted]	F6K100205003	JJFPD1CX	ENSR111006	11/9/06	6320310	ND		ND	93.65	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (89%) HCS acceptable
	F6K100205003	JJFPD1CX	ENSR111006	11/9/06	6320310	ND		ND	93.65	mg/kg	12/08/06	12/13/06	no	no	LCS low (70%)
[redacted]	F6K100205004	JJFQH1C4	ENSR111006	11/9/06	6320310	ND		ND	89.77	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (89%) HCS acceptable
	F6K100205004	JJFQH1C4	ENSR111006	11/9/06	6320310	ND		ND	89.77	mg/kg	12/08/06	12/13/06	no	no	LCS low (70%)
[redacted]	F6K100205005	JJFQQ1CF	ENSR111006	11/9/06	6320310	ND		ND	91.8	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (89%) HCS acceptable
	F6K100205005	JJFQQ1CF	ENSR111006	11/9/06	6320310	ND		ND	91.8	mg/kg	12/08/06	12/13/06	no	no	LCS low (70%)
[redacted]	F6K100205006	JJFQ11CJ	ENSR111006	11/9/06	6325305	ND		ND	61.92	mg/kg	11/21/06	11/27/06	yes	yes	LCS high (114%); high bias ND
	F6K100205006	JJFQ11CJ	ENSR111006	11/9/06	6325305	ND		ND	61.92	mg/kg	11/21/06	12/04/06	yes	yes	LCS acceptable
[redacted]	F6K100205006S	JJFQ11C3	ENSR111006	11/9/06	6325305		2.61	4.21511628	61.92	mg/kg	11/21/06	11/27/06	yes	yes	LCS high (114%); high bias ND
	F6K100205006S	JJFQ11C3	ENSR111006	11/9/06	6325305	ND		ND	61.92	mg/kg	11/21/06	12/04/06	yes	yes	LCS acceptable
[redacted]	F6K100205006X	JJFQ11C4	ENSR111006	11/9/06	6325305	ND		ND	61.92	mg/kg	11/21/06	11/27/06	yes	yes	LCS high (114%); high bias ND
	F6K100205006X	JJFQ11C4	ENSR111006	11/9/06	6325305	2.462		3.976	61.92	mg/kg	11/21/06	12/04/06	yes	yes	LCS acceptable; MS low (49%)
[redacted]	F6K100205007	JJFRF1C4	ENSR111006	11/9/06	6325305	ND		ND	85.96	mg/kg	11/21/06	12/04/06	yes	yes	
	F6K100205007	JJFRF1C4	ENSR111006	11/9/06	6325305	ND		ND	85.96	mg/kg	11/21/06	12/04/06	yes	yes	LCS acceptable
[redacted]	F6K100205008	JJFTR1CF	ENSR111006	11/9/06	6325305	ND		ND	83.33	mg/kg	11/21/06	11/27/06	yes	yes	LCS high (114%); high bias ND
	F6K100205008	JJFTR1CF	ENSR111006	11/9/06	6325305	ND		ND	83.33	mg/kg	11/21/06	12/04/06	yes	yes	LCS acceptable
[redacted]	F6K100205009	JJFV91CK	ENSR111006	11/9/06	6325305	ND		ND	83.14	mg/kg	11/21/06	11/27/06	yes	yes	LCS high (114%); high bias ND
	F6K100205009	JJFV91CK	ENSR111006	11/9/06	6325305	ND		ND	83.14	mg/kg	11/21/06	12/04/06	yes	yes	LCS acceptable
[redacted]	F6K100205010	JJFWM1CL	ENSR111006	11/9/06	6325305	ND		ND	86.5	mg/kg	11/21/06	11/27/06	yes	yes	LCS high (114%); high bias ND
	F6K100205010	JJFWM1CL	ENSR111006	11/9/06	6325305	ND		ND	86.5	mg/kg	11/21/06	12/04/06	yes	yes	LCS acceptable
[redacted]	F6K100205011	JJFWX1CL	ENSR111006	11/9/06	6325305	ND		ND	92.37	mg/kg	11/21/06	11/27/06	yes	yes	LCS high (114%); high bias ND
	F6K100205011	JJFWX1CL	ENSR111006	11/9/06	6325305	ND		ND	92.37	mg/kg	11/21/06	12/04/06	yes	yes	LCS acceptable
[redacted]	F6K100205012	JJFW81CR	ENSR111006	11/9/06	6325305	ND		ND	87.95	mg/kg	11/21/06	11/27/06	yes	yes	LCS high (114%); high bias ND
	F6K100205012	JJFW81CR	ENSR111006	11/9/06	6325305	ND		ND	87.95	mg/kg	11/21/06	12/04/06	yes	yes	LCS acceptable
[redacted]	F6K100205013	JJFXE1CX	ENSR111006	11/9/06	6325305	ND		ND	93.12	mg/kg	11/21/06	11/27/06	yes	yes	LCS high (114%); high bias ND
	F6K100205013	JJFXE1CX	ENSR111006	11/9/06	6325305	ND		ND	93.12	mg/kg	11/21/06	12/04/06	yes	yes	LCS acceptable
[redacted]	F6K100205014	JJFXL1C2	ENSR111006	11/9/06	6325305	ND		ND	95.45	mg/kg	11/21/06	11/27/06	yes	yes	LCS high (114%); high bias ND
	F6K100205014	JJFXL1C2	ENSR111006	11/9/06	6325305	ND		ND	95.45	mg/kg	11/21/06	12/04/06	yes	yes	LCS acceptable
[redacted]	F6K100205015	JJFXQ1CD	ENSR111006	11/9/06	6325305	ND		ND	61.17	mg/kg	11/21/06	11/27/06	yes	yes	LCS high (114%); high bias ND
	F6K100205015	JJFXQ1CD	ENSR111006	11/9/06	6325305	ND		ND	61.17	mg/kg	11/21/06	12/04/06	yes	yes	LCS acceptable
[redacted]	F6K110180001	JJJEQ1CX	ENSR111006	11/10/06	6325305	ND		ND	90.04	mg/kg	11/21/06	11/27/06	yes	yes	LCS high (114%); high bias ND
[redacted]	F6K110180002	JJJHD1C6	ENSR111006	11/10/06	6325305	ND		ND	93.27	mg/kg	11/21/06	11/27/06	yes	yes	LCS high (114%); high bias ND
	F6K110180002	JJJHD1C6	ENSR111006	11/10/06	6325305	ND		ND	93.27	mg/kg	11/21/06	12/04/06	yes	yes	LCS acceptable
[redacted]	F6K110180003	JJJHE1C6	ENSR111006	11/10/06	6331214	ND		ND	93.27	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (52%);
	F6K110180003	JJJHE1C6	ENSR111006	11/10/06	6331214		3.25		92.4	mg/kg	12/11/06	12/13/06	no	no	LCS acceptable (96%)
[redacted]	F6K110180003S	JJJHE1C7	ENSR111006	11/10/06	6331214	2.7705		2.998	92.4	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (52%); MS low (55%)
	F6K110180003S	JJJHE1C7	ENSR111006	11/10/06	6331214		96.26		92.4	mg/kg	12/11/06	12/13/06	no	no	LCS acceptable (96%)
[redacted]	F6K110180003X	JJJHE1C8	ENSR111006	11/10/06	6331214	ND		ND	92.4	mg/kg	11/16/06	12/04/06	yes	yes	LCS low (52%);
	F6K110180003X	JJJHE1C8	ENSR111006	11/10/06	6331214		4.79		92.4	mg/kg	12/11/06	12/13/06	no	no	LCS acceptable (96%)

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	F6K110180004	JJJHF1C6	ENSR111006	11/10/06	6331214	ND		ND		62.01	mg/kg	11/27/06	12/04/06	no	yes	LCS did not recover (0%); Distillation apparatus not properly sealed
[redacted]	F6K110180004	JJJHF1C6	ENSR111006	11/10/06	6331214	ND		ND		62.01	mg/kg	12/11/06	12/13/06	no	no	LCS acceptable (96%)
	F6K110180006	JJJH81CU	ENSR111006	11/10/06	6326322	ND		ND		N/A	ug/L	11/22/06	11/27/06	yes	yes	LCS acceptable
	F6K110180006	JJJH81CU	ENSR111006	11/10/06	6326322	ND		ND		N/A	ug/L	11/22/06	12/04/06	yes	yes	LCS low (86%) blanks running ~ 3ppb
[redacted]	F6K110180006S	JJJH81C6	ENSR111006	11/10/06	6326322		99.2		99.2	N/A	ug/L	11/22/06	11/27/06	yes	yes	LCS acceptable
	F6K110180006S	JJJH81C6	ENSR111006	11/10/06	6326322	79.04		79.04		N/A	ug/L	11/22/06	12/04/06	yes	yes	LCS low (86%) blanks running ~ 3ppb
[redacted]	F6K110180006X	JJJH81C7	ENSR111006	11/10/06	6326322	ND		ND		N/A	ug/L	11/22/06	11/27/06	yes	yes	LCS acceptable
	F6K110180006X	JJJH81C7	ENSR111006	11/10/06	6326322	ND		ND		N/A	ug/L	11/22/06	12/04/06	yes	yes	LCS low (86%) blanks running ~ 3ppb
[redacted]	F6K140246001	JJNCF1CV	ENSR111006	11/13/06	6326322	ND		ND		N/A	ug/L	11/22/06	11/27/06	yes	yes	LCS acceptable
	F6K140246001	JJNCF1CV	ENSR111006	11/13/06	6326322	ND		ND		N/A	ug/L	11/22/06	12/04/06	yes	yes	LCS low (86%) blanks running ~ 3ppb
	F6K140246003	JJNEQ1CV	ENSR111006	11/13/06	6331214	ND		ND		93.56	mg/kg	11/27/06	12/04/06	yes	yes	LCS did not recover (0%); Distillation apparatus not properly sealed
[redacted]	F6K140246003	JJNEQ1CV	ENSR111006	11/13/06	6331214	ND		ND		93.56	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (96%)
	F6K140246004	JJNF11C2	ENSR111006	11/13/06	6331214	ND		ND		93.74	mg/kg	11/27/06	12/04/06	yes	yes	LCS did not recover (0%); Distillation apparatus not properly sealed
[redacted]	F6K140246004	JJNF11C2	ENSR111006	11/13/06	6331214	ND		ND		93.74	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (96%)
	F6K140246005	JJNF41CD	ENSR111006	11/13/06	6331214	ND		ND		93.7	mg/kg	11/27/06	12/04/06	yes	yes	LCS did not recover (0%); Distillation apparatus not properly sealed
[redacted]	F6K140246005	JJNF41CD	ENSR111006	11/13/06	6331214	ND		ND		93.7	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (96%)
	F6K140246006	JJNF91CJ	ENSR111006	11/13/06	6331214	ND		ND		91.07	mg/kg	11/27/06	12/04/06	yes	yes	LCS did not recover (0%); Distillation apparatus not properly sealed
[redacted]	F6K140246006	JJNF91CJ	ENSR111006	11/13/06	6331214	ND		ND		91.07	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (96%)
	F6K140246007	JJNGF1CL	ENSR111006	11/13/06	6331214	ND		ND		77.6	mg/kg	11/27/06	12/04/06	yes	yes	LCS did not recover (0%); Distillation apparatus not properly sealed
[redacted]	F6K140246007	JJNGF1CL	ENSR111006	11/13/06	6331214	ND		ND		77.6	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (96%)
	F6K140246008	JJNGH1CN	ENSR111006	11/13/06	6331214	ND		ND		67.9	mg/kg	11/27/06	12/04/06	yes	yes	LCS did not recover (0%); Distillation apparatus not properly sealed
[redacted]	F6K140246008	JJNGH1CN	ENSR111006	11/13/06	6331214	ND		ND		67.9	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (96%)
	F6K150251001	JJQ101CW	ENSR111006	11/14/06	6331214	ND		ND		94.22	mg/kg	11/27/06	12/04/06	yes	yes	LCS did not recover (0%); Distillation apparatus not properly sealed
[redacted]	F6K150251001	JJQ101CW	ENSR111006	11/14/06	6331214	ND		ND		94.22	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (96%)
	F6K150251001D	JJQ101EL	ENSR111006	11/14/06	6331214	ND		ND		94.22	mg/kg	11/27/06	12/04/06	yes	yes	LCS did not recover (0%); Distillation apparatus not properly sealed
[redacted]	F6K150251001D	JJQ101EL	ENSR111006	11/14/06	6331214		4.758	5.09421842		94.22	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (96%)
	F6K150251001S	JJQ101EK	ENSR111006	11/14/06	6331214	ND		ND		94.22	mg/kg	11/27/06	12/04/06	yes	yes	LCS did not recover (0%); Distillation apparatus not properly sealed; MS did not recover (0%)
[redacted]	F6K150251001S	JJQ101EK	ENSR111006	11/14/06	6331214		5.421	5.80406852		94.22	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (96%)
	F6K150251002	JJQ271C4	ENSR111006	11/14/06	6331257	ND		ND		86.15	mg/kg	11/27/06	12/04/06	yes	yes	LCS low (2.6%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K150251002	JJQ271C4	ENSR111006	11/14/06	6331257	ND		ND		86.15	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (98%)
	F6K150251002D	JJQ271FE	ENSR111006	11/14/06	6331257	ND		ND		86.15	mg/kg	11/27/06	12/04/06	yes	yes	LCS low (2.6%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K150251002D	JJQ271FE	ENSR111006	11/14/06	6331257		4.813	5.58676727		86.15	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (98%)
	F6K150251002S	JJQ271FD	ENSR111006	11/14/06	6331257	ND		ND		86.15	mg/kg	11/27/06	12/04/06	yes	yes	LCS low (2.6%) blks running ~3ppb; distillation apparatus not sealed; MS recovery 0%
[redacted]	F6K150251002S	JJQ271FD	ENSR111006	11/14/06	6331257		4.632	5.3766686		86.15	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (98%)
	F6K150251003	JJQ3H1C4	ENSR111006	11/14/06	6331214	ND		ND		92.39	mg/kg	11/27/06	12/04/06	yes	yes	LCS did not recover (0%); Distillation apparatus not properly sealed
[redacted]	F6K150251003	JJQ3H1C4	ENSR111006	11/14/06	6331214	ND		ND		92.39	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (96%)
	F6K150251004	JJQ341CF	ENSR111006	11/14/06	6331214	ND		ND		92.29	mg/kg	11/27/06	12/04/06	yes	yes	LCS did not recover (0%); Distillation apparatus not properly sealed
[redacted]	F6K150251004	JJQ341CF	ENSR111006	11/14/06	6331214	ND		ND		92.29	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (96%)
	F6K150251005	JJQ4Q1CJ	ENSR111006	11/14/06	6331214	ND		ND		94.97	mg/kg	11/27/06	12/04/06	yes	yes	LCS did not recover (0%); Distillation apparatus not properly sealed
[redacted]	F6K150251005	JJQ4Q1CJ	ENSR111006	11/14/06	6331214	ND		ND		94.97	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (96%)
	F6K150251006	JJQ4W1CM	ENSR111006	11/14/06	6331257	ND		ND		67.41	mg/kg	11/27/06	12/04/06	yes	yes	LCS low (2.6%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K150251006	JJQ4W1CM	ENSR111006	11/14/06	6331257	ND		ND		67.41	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (98%)
	F6K150251007	JJQ461C4	ENSR111006	11/14/06	6331257	ND		ND		77.45	mg/kg	11/27/06	12/04/06	yes	yes	LCS low (2.6%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K150251007	JJQ461C4	ENSR111006	11/14/06	6331257	ND		ND		77.45	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (98%)
	F6K150251008	JJQ6Q1CF	ENSR111006	11/14/06	6331257	ND		ND		85.85	mg/kg	11/27/06	12/04/06	yes	yes	LCS low (2.6%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K150251008	JJQ6Q1CF	ENSR111006	11/14/06	6331257	ND		ND		85.85	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (98%)
	F6K150251009	JJQ6V1CH	ENSR111006	11/14/06	6331257	ND		ND		84.8	mg/kg	11/27/06	12/04/06	yes	yes	LCS low (2.6%) blks running ~3ppb; distillation apparatus not sealed

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[redacted]	F6K150251009	JJQ6V1CH	ENSR111006	11/14/06	6331257	ND	ND	84.8	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (98%)
	F6K150251010	JJQ6X1CH	ENSR111006	11/14/06	6331257	ND	ND	92.38	mg/kg	11/27/06	12/04/06	yes	yes	LCS low (2.6%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K150251010	JJQ6X1CH	ENSR111006	11/14/06	6331257	ND	ND	92.38	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (98%)
	F6K150251011	JJQ621CH	ENSR111006	11/14/06	6331257	ND	ND	60.08	mg/kg	11/27/06	12/04/06	yes	yes	LCS low (2.6%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K150251011	JJQ621CH	ENSR111006	11/14/06	6331257	ND	ND	60.08	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (98%)
	F6K150251012	JJQ7H1CF	ENSR111006	11/14/06	6331257	ND	ND	91.01	mg/kg	11/27/06	12/04/06	yes	yes	LCS low (2.6%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K150251012	JJQ7H1CF	ENSR111006	11/14/06	6331257	ND	ND	91.01	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (98%)
	F6K150251013	JJQ8F1CK	ENSR111006	11/14/06	6331257	ND	ND	94.01	mg/kg	11/27/06	12/04/06	yes	yes	LCS low (2.6%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K150251013	JJQ8F1CK	ENSR111006	11/14/06	6331257	ND	ND	94.01	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (98%)
	F6K150251014	JJQ8W1CN	ENSR111006	11/14/06	6331257	ND	ND	91.5	mg/kg	11/27/06	12/04/06	yes	yes	LCS low (2.6%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K150251014	JJQ8W1CN	ENSR111006	11/14/06	6331257	ND	ND	91.5	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (98%)
	F6K150251015	JJQ821CP	ENSR111006	11/14/06	6331257	ND	ND	87.69	mg/kg	11/27/06	12/04/06	yes	yes	LCS low (2.6%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K150251015	JJQ821CP	ENSR111006	11/14/06	6331257	ND	ND	87.69	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (98%)
	F6K150251016	JJQ841CQ	ENSR111006	11/14/06	6331257	ND	ND	94.12	mg/kg	11/27/06	12/04/06	yes	yes	LCS low (2.6%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K150251016	JJQ841CQ	ENSR111006	11/14/06	6331257	ND	ND	94.12	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (98%)
	F6K150251016D	JJQ841D0	ENSR111006	11/14/06	6331257	ND	ND	94.12	mg/kg	11/27/06	12/04/06	yes	yes	LCS low (2.6%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K150251016D	JJQ841D0	ENSR111006	11/14/06	6331257	4.826	5.12749681	94.12	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (98%)
	F6K150251016S	JJQ841DX	ENSR111006	11/14/06	6331257	ND	ND	94.12	mg/kg	11/27/06	12/04/06	yes	yes	LCS low (2.6%) blks running ~3ppb; distillation apparatus not sealed; MS recovery 0%
[redacted]	F6K150251016S	JJQ841DX	ENSR111006	11/14/06	6331257	0.381	0.40480238	94.12	mg/kg	12/11/06	12/13/06	no	yes	LCS acceptable (98%)
[redacted]	F6K150251017	JJRAF1CQ	ENSR111006	11/14/06	6333348	6.39	6.39	N/A	ug/L	12/11/06	12/13/06	no	yes	LCS acceptable (94%)
[redacted]	F6K160199001	JJT4A1CN	ENSR111006	11/15/06	6333348	ND	ND	N/A	ug/L	12/11/06	12/13/06	no	yes	LCS acceptable (94%)
	F6K160199002	JJT4R1CW	ENSR111006	11/15/06	6333274	ND	ND	85.33	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K160199002	JJT4R1CW	ENSR111006	11/15/06	6333274	ND	ND	85.33	mg/kg	12/14/06	12/20/06	no	no	LCS low (60%) HCS (6%)
	F6K160199002	JJT4R1CW	ENSR111006	11/15/06	6333274	ND	ND	85.33	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
[redacted]	F6K160199003	JJT44	ENSR111006	11/15/06	6333274	ND	ND	86.55	mg/kg	12/14/06	12/20/06	no	no	LCS low (60%) HCS (6%)
	F6K160199003	JJT441C2	ENSR111006	11/15/06	6333274	ND	ND	86.55	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed
	F6K160199003	JJT441C2	ENSR111006	11/15/06	6333274	ND	ND	86.55	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
[redacted]	F6K160199004	JJT47	ENSR111006	11/15/06	6333274	ND	ND	87.91	mg/kg	12/14/06	12/20/06	no	no	LCS low (60%) HCS (6%)
	F6K160199004	JJT471CD	ENSR111006	11/15/06	6333274	ND	ND	87.91	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed
	F6K160199004	JJT471CD	ENSR111006	11/15/06	6333274	ND	ND	87.91	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
[redacted]	F6K160199005	JJT5C	ENSR111006	11/15/06	6333274	ND	ND	94.25	mg/kg	12/14/06	12/20/06	no	no	LCS low (60%) HCS (6%)
	F6K160199005	JJT5C1CG	ENSR111006	11/15/06	6333274	0.6705	0.7114	94.25	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed
	F6K160199005	JJT5C1CG	ENSR111006	11/15/06	6333274	ND	ND	94.25	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
[redacted]	F6K160199006	JJT5K	ENSR111006	11/15/06	6333274	ND	ND	80.97	mg/kg	12/14/06	12/20/06	no	no	LCS low (60%) HCS (6%)
	F6K160199006	JJT5K1CH	ENSR111006	11/15/06	6333274	ND	ND	80.97	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed
	F6K160199006	JJT5K1CH	ENSR111006	11/15/06	6333274	ND	ND	80.97	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
[redacted]	F6K160199007	JJT5Q	ENSR111006	11/15/06	6333274	ND	ND	91.71	mg/kg	12/14/06	12/20/06	no	no	LCS low (60%) HCS (6%)
	F6K160199007	JJT5Q1CJ	ENSR111006	11/15/06	6333274	ND	ND	91.71	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed
	F6K160199007	JJT5Q1CJ	ENSR111006	11/15/06	6333274	ND	ND	91.71	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
[redacted]	F6K160199008	JJT55	ENSR111006	11/15/06	6333274	ND	ND	95.14	mg/kg	12/14/06	12/20/06	no	no	LCS low (60%) HCS (6%)
	F6K160199008	JJT551CM	ENSR111006	11/15/06	6333274	ND	ND	95.14	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed
	F6K160199008	JJT551CM	ENSR111006	11/15/06	6333274	ND	ND	95.14	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
[redacted]	F6K160199009	JJT58	ENSR111006	11/15/06	6333274	ND	ND	92.16	mg/kg	12/14/06	12/20/06	no	no	LCS low (60%) HCS (6%)
	F6K160199009	JJT581CQ	ENSR111006	11/15/06	6333274	ND	ND	92.16	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed
	F6K160199009	JJT581CQ	ENSR111006	11/15/06	6333274	ND	ND	92.16	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
[redacted]	F6K160199010	JJT66	ENSR111006	11/15/06	6333274	ND	ND	93.04	mg/kg	12/14/06	12/20/06	no	no	LCS low (60%) HCS (6%)
	F6K160199010	JJT661CR	ENSR111006	11/15/06	6333274	1.872	2.012	93.04	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed
	F6K160199010	JJT661CR	ENSR111006	11/15/06	6333274	ND	ND	93.04	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
[redacted]	F6K160199011	JJT7F	ENSR111006	11/15/06	6333274	ND	ND	90.88	mg/kg	12/14/06	12/20/06	no	no	LCS low (60%) HCS (6%)

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	F6K160199011	JJT7F1CT	ENSR111006	11/15/06	6333274	ND	ND	90.88	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed
	F6K160199011	JJT7F1CT	ENSR111006	11/15/06	6333274	ND	ND	90.88	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
[redacted]	F6K160199012	JJT7Q	ENSR111006	11/15/06	6333274	ND	ND	95.68	mg/kg	12/14/06	12/20/06	no	no	LCS low (60%) HCS (6%)
	F6K160199012	JJT7Q1C2	ENSR111006	11/15/06	6333274	ND	ND	95.68	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed
	F6K160199012	JJT7Q1C2	ENSR111006	11/15/06	6333274	ND	ND	95.68	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
[redacted]	F6K160199013	JJT8N	ENSR111006	11/15/06	6333274	ND	ND	90.86	mg/kg	12/14/06	12/20/06	no	no	LCS low (60%) HCS (6%)
	F6K160199013	JJT8N1CD	ENSR111006	11/15/06	6333274	3.526	3.8807	90.86	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed
	F6K160199013	JJT8N1CD	ENSR111006	11/15/06	6333274	ND	ND	90.86	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
[redacted]	F6K160199014	JJT87	ENSR111006	11/15/06	6333274	ND	ND	90.46	mg/kg	12/14/06	12/20/06	no	no	LCS low (60%) HCS (6%)
	F6K160199014	JJT871CJ	ENSR111006	11/15/06	6333274	ND	ND	90.46	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed
	F6K160199014	JJT871CJ	ENSR111006	11/15/06	6333274	ND	ND	90.46	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
[redacted]	F6K160199015	JJT9D	ENSR111006	11/15/06	6333274	ND	ND	95.8	mg/kg	12/14/06	12/20/06	no	no	LCS low (60%) HCS (6%)
	F6K160199015	JJT9D1CK	ENSR111006	11/15/06	6333274	ND	ND	95.8	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed
	F6K160199015	JJT9D1CK	ENSR111006	11/15/06	6333274	ND	ND	95.8	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
[redacted]	F6K160199016	JJT9F	ENSR111006	11/15/06	6333327	ND	ND	89.45	mg/kg	12/14/06	12/20/06	no	no	LCS low (82%); HCS 48%
	F6K160199016	JJT9F1CL	ENSR111006	11/15/06	6333327	ND	ND	89.45	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K160199016	JJT9F1CL	ENSR111006	11/15/06	6333327	ND	ND	89.45	mg/kg	01/11/07	01/15/07	no	no	LCS acceptable (102%)
[redacted]														
[redacted]	F6K170247001	JJ0QP	ENSR111706	11/16/06	6333274	ND	ND	78.87	mg/kg	12/14/06	12/20/06	no	yes	LCS low (60%) HCS (6%)
	F6K170247001	JJ0QP1C3	ENSR111706	11/16/06	6333274	ND	ND	78.87	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed
	F6K170247001	JJ0QP1C3	ENSR111706	11/16/06	6333274	ND	ND	78.87	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
[redacted]	F6K170247001D	JJ0QP D	ENSR111706	11/16/06	6333274	4.298	5.45	78.87	mg/kg	12/14/06	12/20/06	no	yes	LCS low (60%) HCS (6%)
	F6K170247001D	JJ0QP1E9	ENSR111706	11/16/06	6333274	ND	ND	80.93	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed
	F6K170247001D	JJ0QP1E9	ENSR111706	11/16/06	6333274	3.99	4.93018658	80.93	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
	F6K170247001S	JJ0QP1E8	ENSR111706	11/16/06	6333274	ND	ND	78.87	mg/kg	11/29/04	12/04/06	yes	yes	LCS low (1.5%) blks running ~3ppb; distillation apparatus not sealed; MS recovery 0%
	F6K170247001S	JJ0QP1E8	ENSR111706	11/16/06	6333274	5.06	6.25231682	80.93	mg/kg	01/10/07	01/15/07	no	no	LCS low (85%)
[redacted]	F6K170247001S	JJ0QP S	ENSR111706	11/16/06	6333274	5.502	6.98	78.87	mg/kg	12/14/06	12/20/06	no	yes	LCS low (60%) HCS (6%)
	F6K170247002	JJ0TH1CE	ENSR111706	11/16/06	6333327	ND	ND	90.27	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K170247002	JJ0TH1CE	ENSR111706	11/16/06	6333327	ND	ND	90.27	mg/kg	12/14/06	12/20/06	no	yes	LCS low (82%); HCS 48%
	F6K170247002	JJ0TH1CE	ENSR111706	11/16/06	6333327	ND	ND	90.27	mg/kg	01/11/07	01/15/07	no	no	LCS acceptable (102%)
[redacted]	F6K170247003	JJ0TN	ENSR111706	11/16/06	6333327	ND	ND	85.73	mg/kg	12/14/06	12/20/06	no	yes	LCS low (82%); HCS 48%
	F6K170247003	JJ0TN1CK	ENSR111706	11/16/06	6333327	ND	ND	85.73	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed
	F6K170247003	JJ0TN1CK	ENSR111706	11/16/06	6333327	ND	ND	85.73	mg/kg	01/11/07	01/15/07	no	no	LCS acceptable (102%)
	F6K170247004	JJ0TV1FM	ENSR111706	11/16/06	6333327	ND	ND	89.86	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed; MS recovery 0%
	F6K170247004	JJ0TV1FN	ENSR111706	11/16/06	6333327	ND	ND	89.86	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K170247004	JJ0TV	ENSR111706	11/16/06	6333327	ND	ND	89.86	mg/kg	12/14/06	12/20/06	no	yes	LCS low (82%); HCS 48%
	F6K170247004	JJ0TV1CE	ENSR111706	11/16/06	6333327	ND	ND	89.86	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed
	F6K170247004	JJ0TV1CE	ENSR111706	11/16/06	6333327	ND	ND	89.86	mg/kg	01/11/07	01/15/07	no	no	LCS acceptable (102%)
	F6K170247004D	JJ0TV1FN	ENSR111706	11/16/06	6333327	4.9285	5.48464278	89.86	mg/kg	01/11/07	01/15/07	no	no	LCS acceptable (102%)
[redacted]	F6K170247004S	JJ0TV S	ENSR111706	11/16/06	6333327	4.648	5.173	89.86	mg/kg	12/14/06	12/20/06	no	yes	LCS low (82%); HCS 48%
	F6K170247004S	JJ0TV1FM	ENSR111706	11/16/06	6333327	4.812	5.35499666	89.86	mg/kg	01/11/07	01/15/07	no	no	LCS acceptable (102%)
[redacted]	F6K170247005	JJ0V5	ENSR111706	11/16/06	6333327	ND	ND	80.5	mg/kg	12/14/06	12/20/06	no	yes	LCS low (82%); HCS 48%
	F6K170247005	JJ0V51CK	ENSR111706	11/16/06	6333327	ND	ND	80.5	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed
	F6K170247005	JJ0V51CK	ENSR111706	11/16/06	6333327	ND	ND	80.5	mg/kg	01/11/07	01/15/07	no	no	LCS acceptable (102%)
[redacted]	F6K170247006	JJ0WG	ENSR111706	11/16/06	6333327	ND	ND	84.21	mg/kg	12/14/06	12/20/06	no	yes	LCS low (82%); HCS 48%
	F6K170247006	JJ0WG1CN	ENSR111706	11/16/06	6333327	ND	ND	84.21	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed
	F6K170247006	JJ0WG1CN	ENSR111706	11/16/06	6333327	ND	ND	84.21	mg/kg	01/11/07	01/15/07	no	no	LCS acceptable (102%)
[redacted]	F6K170247007	JJ0WP	ENSR111706	11/16/06	6333327	ND	ND	94.77	mg/kg	12/14/06	12/20/06	no	yes	LCS low (82%); HCS 48%

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	F6K170247007	JJ0WP1CP	ENSR111706	11/16/06	6333327	ND	ND	94.77	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed
	F6K170247007	JJ0WP1CP	ENSR111706	11/16/06	6333327	1.2275	1.29524111	94.77	mg/kg	01/11/07	01/15/07	no	no	LCS acceptable (102%)
[redacted]	F6K170247008	JJ0WQ	ENSR111706	11/16/06	6333327	ND	ND	84.53	mg/kg	12/14/06	12/20/06	no	yes	LCS low (82%); HCS 48%
	F6K170247008	JJ0WQ1CQ	ENSR111706	11/16/06	6333327	ND	ND	84.53	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed
	F6K170247008	JJ0WQ1CQ	ENSR111706	11/16/06	6333327	ND	ND	84.53	mg/kg	01/11/07	01/15/07	no	no	LCS acceptable (102%)
[redacted]	F6K170247009	JJ0W3	ENSR111706	11/16/06	6333327	ND	ND	90.59	mg/kg	12/14/06	12/20/06	no	yes	LCS low (82%); HCS 48%
	F6K170247009	JJ0W31CK	ENSR111706	11/16/06	6333327	ND	ND	90.59	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed
	F6K170247009	JJ0W31CK	ENSR111706	11/16/06	6333327	ND	ND	90.59	mg/kg	01/11/07	01/15/07	no	no	LCS acceptable (102%)
[redacted]	F6K170247010	JJ0XF	ENSR111706	11/16/06	6333327	0.535	0.5848	91.48	mg/kg	12/14/06	12/21/06	no	yes	LCS low (82%); HCS 48%
	F6K170247010	JJ0XF1CN	ENSR111706	11/16/06	6333327	ND	ND	91.48	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K170247010	JJ0XF1CN	ENSR111706	11/16/06	6333327	ND	ND	91.48	mg/kg	12/14/06	12/21/06	no	yes	LCS low (82%); HCS 48%
	F6K170247010	JJ0XF1CN	ENSR111706	11/16/06	6333327	ND	ND	91.48	mg/kg	01/11/07	01/15/07	no	no	LCS acceptable (102%)
[redacted]	F6K170247011	JJ0X2	11/16/2006	11/16/06	ND	ND	91.22	mg/kg	12/14/06	12/21/06		no	no	
	F6K170247011	JJ0X21CP	ENSR111706	11/16/06	6333327	ND	ND	91.22	mg/kg	12/14/06	12/21/06	no	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed
	F6K170247011	JJ0X21CP	ENSR111706	11/16/06	6333327	ND	ND	91.22	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed
	F6K170247011	JJ0X21CP	ENSR111706	11/16/06	6333327	ND	ND	91.22	mg/kg	01/11/07	01/15/07	no	no	LCS acceptable (102%)
[redacted]	F6K170247012	JJ0X5	ENSR111706	11/16/06	6333327	0.4565	0.5304	86.06	mg/kg	12/14/06	12/21/06	no	yes	LCS low (82%); HCS 48%
	F6K170247012	JJ0X51CQ	ENSR111706	11/16/06	6333327	ND	ND	86.06	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed
	F6K170247012	JJ0X51CQ	ENSR111706	11/16/06	6333327	ND	ND	86.06	mg/kg	01/11/07	01/15/07	no	no	LCS acceptable (102%)
[redacted]	F6K170247012D	JJ0X5 D	ENSR111706	11/16/06	6333327	3.772	4.383	86.06	mg/kg	12/14/06	12/21/06	no	yes	LCS low (82%); HCS 48%
	F6K170247012D	JJ0X51FW	ENSR111706	11/16/06	6333327	ND	ND	86.06	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed
	F6K170247012D	JJ0X51FW	ENSR111706	11/16/06	6333327	3.367	3.91238671	86.06	mg/kg	01/11/07	01/15/07	no	no	LCS acceptable (102%)
[redacted]	F6K170247012S	JJ0X5 S	ENSR111706	11/16/06	6333327	99.63		86.06	mg/kg	12/14/06	12/21/06	no	yes	LCS low (82%); HCS 48%
	F6K170247012S	JJ0X51FV	ENSR111706	11/16/06	6333327	ND	ND	86.06	mg/kg	11/29/06	12/04/06	yes	yes	LCS low (1.8%) blks running ~3ppb; distillation apparatus not sealed
	F6K170247012S	JJ0X51FV	ENSR111706	11/16/06	6333327	2.7035	3.14141297	86.06	mg/kg	01/11/07	01/15/07	no	no	LCS acceptable (102%)
	F6K170247013	JJ00E1CK	ENSR111706	11/16/06	6333348	ND	ND	N/A	ug/L	12/01/06	12/04/06	no	yes	LCS low (5%); apparatus not sealed
[redacted]	F6K170247013	JJ00E1CK	ENSR111706	11/16/06	6333348	5.23	5.23	N/A	ug/L	01/19/07	01/22/07	no	no	LCS acceptable (97%)
	F6K180200001	JJ28E1F0	ENSR111706	11/17/06	6333348	ND	ND	N/A	ug/L		12/04/06	yes	yes	LCS acceptable (94%)
[redacted]	F6K180200001	JJ28E1F0	ENSR111706	11/17/06	6333348	ND	ND	N/A	ug/L	12/11/06	12/13/06	no	yes	LCS acceptable (94%)
	F6K180200001D	JJ28E1CM	ENSR111706	11/17/06	6333348	ND	ND	N/A	ug/L		12/04/06	yes	yes	LCS acceptable (94%)
[redacted]	F6K180200001D	JJ28E1CM	ENSR111706	11/17/06	6333348	ND	ND	N/A	ug/L	12/11/06	12/13/06	no	yes	LCS acceptable (94%)
	F6K180200001S	JJ28E1FX	ENSR111706	11/17/06	6333348	ND	ND	N/A	ug/L		12/04/06	yes	yes	MS recovery 0%.
[redacted]	F6K180200001S	JJ28E1FX	ENSR111706	11/17/06	6333348	0.898	0.898	N/A	ug/L	12/11/06	12/13/06	no	yes	LCS acceptable (94%)
	F6K180200002	JJ28F1CV	ENSR111706	11/17/06	6333348	ND	ND	N/A	ug/L		12/04/06	yes	yes	LCS acceptable (94%)
[redacted]	F6K180200002	JJ28F1CV	ENSR111706	11/17/06	6333348	ND	ND	N/A	ug/L	12/11/06	12/13/06	no	yes	LCS acceptable (94%)
	F6K180200004	JJ28J1C0	ENSR111706	11/17/06	6338185	ND	ND	95.21	mg/kg	12/01/06	12/04/06	yes	yes	LCS low (7.0%) blks running ~3ppb; distillation apparatus not sealed
[redacted]	F6K180200004	JJ28J1C0	ENSR111706	11/17/06	6338185	ND	ND	95.21	mg/kg	12/13/06	12/20/06	no	yes	LCS low (53%) HCS low (63%)
	F6K180200004	JJ28J1C0	ENSR111706	11/17/06	6338185	ND	ND	95.21	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (99%); HCS acceptabe (103%)
[redacted]	F6K180200004D	JJ28J D	ENSR111706	11/17/06	6338185	4.4785	4.704	95.21	mg/kg	12/13/06	12/20/06	no	yes	LCS low (53%) HCS low (63%)
	F6K180200004D	JJ28J1E5	ENSR111706	11/17/06	6338185	ND	ND	95.21	mg/kg	12/01/06	12/04/06	yes	yes	LCS low (7.0%) blks running ~3ppb; distillation apparatus not sealed
	F6K180200004D	JJ28J1E5	ENSR111706	11/17/06	6338185	5.2515	5.51570213	95.21	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (99%); HCS acceptabe (103%)
[redacted]	F6K180200004S	JJ28J S	ENSR111706	11/17/06	6338185	4.61	4.842	95.21	mg/kg	12/13/06	12/20/06	no	yes	LCS low (53%) HCS low (63%)
	F6K180200004S	JJ28J1E4	ENSR111706	11/17/06	6338185	0.3815	0.401	95.21	mg/kg	12/01/06	12/04/06	yes	yes	LCS low (7.0%) blks running ~3ppb; distillation apparatus not sealed
	F6K180200004S	JJ28J1E4	ENSR111706	11/17/06	6338185	5.2165	5.47894129	95.21	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (99%); HCS acceptabe (103%)
[redacted]	F6K180200005	JJ28P	ENSR111706	11/17/06	6338185	ND	ND	93.72	mg/kg	12/13/06	12/20/06	no	yes	LCS low (53%) HCS low (63%)
	F6K180200005	JJ28P1CA	ENSR111706	11/17/06	6338185	ND	ND	93.72	mg/kg	12/01/06	12/04/06	yes	yes	LCS low (7.0%) blks running ~3ppb; distillation apparatus not sealed
	F6K180200005	JJ28P1CA	ENSR111706	11/17/06	6338185	ND	ND	93.72	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (99%); HCS acceptabe (103%)
[redacted]	F6K180200006	JJ28V	ENSR111706	11/17/06	6338185	ND	ND	95.33	mg/kg	12/13/06	12/20/06	no	yes	LCS low (53%) HCS low (63%)
	F6K180200006	JJ28V1CH	ENSR111706	11/17/06	6338185	ND	ND	95.33	mg/kg	12/01/06	12/04/06	yes	yes	LCS low (7.0%) blks running ~3ppb; distillation apparatus not sealed
	F6K180200006	JJ28V1CH	ENSR111706	11/17/06	6338185	ND	ND	95.33	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (99%); HCS acceptabe (103%)
[redacted]	F6K180200007	JJ28W	ENSR111706	11/17/06	6338185	ND	ND	91.57	mg/kg	12/13/06	12/20/06	no	yes	LCS low (53%) HCS low (63%)
	F6K180200007	JJ28W1CL	ENSR111706	11/17/06	6338185	ND	ND	91.57	mg/kg	12/01/06	12/04/06	yes	yes	LCS low (7.0%) blks running ~3ppb; distillation apparatus not sealed

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	F6K180200007	JJ28W1CL	ENSR111706	11/17/06	6338185	ND	ND		91.57	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (99%); HCS acceptabe (103%)
[redacted]	F6K180200008	JJ28X	ENSR111706	11/17/06	6338185	ND	ND		73.44	mg/kg	12/13/06	12/20/06	no	yes	LCS low (53%) HCS low (63%)
	F6K180200008	JJ28X1CP	ENSR111706	11/17/06	6338185	ND	ND		73.44	mg/kg	12/01/06	12/04/06	yes	yes	LCS low (7.0%) blks running ~3ppb; distillation apparatus not sealed
	F6K180200008	JJ28X1CP	ENSR111706	11/17/06	6338185	ND	ND		73.44	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (99%); HCS acceptabe (103%)
[redacted]	F6K180200009	JJ280	ENSR111706	11/17/06	6338185	ND	ND		85.91	mg/kg	12/13/06	12/20/06	no	yes	LCS low (53%) HCS low (63%)
	F6K180200009	JJ2801CW	ENSR111706	11/17/06	6338185	ND	ND		85.91	mg/kg	12/01/06	12/04/06	yes	yes	LCS low (7.0%) blks running ~3ppb; distillation apparatus not sealed
	F6K180200009	JJ2801CW	ENSR111706	11/17/06	6338185	ND	ND		85.91	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (99%); HCS acceptabe (103%)
[redacted]	F6K180200010	JJ282	ENSR111706	11/17/06	6338185	ND	ND		90.37	mg/kg	12/13/06	12/20/06	no	yes	LCS low (53%) HCS low (63%)
	F6K180200010	JJ2821C2	ENSR111706	11/17/06	6338185	ND	ND		90.37	mg/kg	12/01/06	12/04/06	yes	yes	LCS low (7.0%) blks running ~3ppb; distillation apparatus not sealed
	F6K180200010	JJ2821C2	ENSR111706	11/17/06	6338185	ND	ND		90.37	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (99%); HCS acceptabe (103%)
[redacted]	F6K180200011	JJ288	ENSR111706	11/17/06	6338185	ND	ND		95.68	mg/kg	12/13/06	12/20/06	no	yes	LCS low (53%) HCS low (63%)
	F6K180200011	JJ2881CD	ENSR111706	11/17/06	6338185	ND	ND		95.68	mg/kg	12/01/06	12/04/06	yes	yes	LCS low (7.0%) blks running ~3ppb; distillation apparatus not sealed
	F6K180200011	JJ2881CD	ENSR111706	11/17/06	6338185	ND	ND		95.68	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (99%); HCS acceptabe (103%)
[redacted]	F6K180200012	JJ29D	ENSR111706	11/17/06	6338185	ND	ND		93.91	mg/kg	12/13/06	12/20/06	no	yes	LCS low (53%) HCS low (63%)
	F6K180200012	JJ29D1CH	ENSR111706	11/17/06	6338185	ND	ND		93.91	mg/kg	12/01/06	12/04/06	yes	yes	LCS low (7.0%) blks running ~3ppb; distillation apparatus not sealed
	F6K180200012	JJ29D1CH	ENSR111706	11/17/06	6338185	ND	ND		93.91	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (99%); HCS acceptabe (103%)
[redacted]	F6K180200013	JJ29E	ENSR111706	11/17/06	6338185	ND	ND		94.89	mg/kg	12/13/06	12/20/06	no	yes	LCS low (53%) HCS low (63%)
	F6K180200013	JJ29E1CJ	ENSR111706	11/17/06	6338185	ND	ND		94.89	mg/kg	12/01/06	12/04/06	yes	yes	LCS low (7.0%) blks running ~3ppb; distillation apparatus not sealed
	F6K180200013	JJ29E1CJ	ENSR111706	11/17/06	6338185	ND	ND		94.89	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (99%); HCS acceptabe (103%)
[redacted]	F6K180200014	JJ29F	ENSR111706	11/17/06	6338185	ND	ND		79.29	mg/kg	12/13/06	12/20/06	no	yes	LCS low (53%) HCS low (63%)
	F6K180200014	JJ29F1CK	ENSR111706	11/17/06	6338185	ND	ND		79.29	mg/kg	12/01/06	12/04/06	yes	yes	LCS low (7.0%) blks running ~3ppb; distillation apparatus not sealed
	F6K180200014	JJ29F1CK	ENSR111706	11/17/06	6338185	ND	ND		79.29	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (99%); HCS acceptabe (103%)
[redacted]	F6K180200014D	JJ29F D	ENSR111706	11/17/06	6338185	3.8665	4.876		79.29	mg/kg	12/13/06	12/20/06	no	yes	LCS low (53%) HCS low (63%)
	F6K180200014D	JJ29F1FK	ENSR111706	11/17/06	6338185	0.367	0.4628		79.29	mg/kg	12/01/06	12/04/06	yes	yes	LCS low (7.0%) blks running ~3ppb; distillation apparatus not sealed
	F6K180200014D	JJ29F1FK	ENSR111706	11/17/06	6338185	4.806	6.06129398		79.29	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (99%); HCS acceptabe (103%)
[redacted]	F6K180200014S	JJ29F S	ENSR111706	11/17/06	6338185	4.676	5.897		79.29	mg/kg	12/13/06	12/20/06	no	yes	LCS low (53%) HCS low (63%)
	F6K180200014S	JJ29F1FJ	ENSR111706	11/17/06	6338185	0.442	0.557		79.29	mg/kg	12/01/06	12/04/06	yes	yes	LCS low (7.0%) blks running ~3ppb; distillation apparatus not sealed
	F6K180200014S	JJ29F1FJ	ENSR111706	11/17/06	6338185	3.7005	4.66704502		79.29	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (99%); HCS acceptabe (103%)
	F6K210226001	JJ6MX1C0	ENSR111706	11/20/06	6338198	ND	ND		94.69	mg/kg	12/04/06	12/04/06	yes	yes	LCS low (0.6%) blks running ~3ppb; distillation apparatus not sealed
	F6K210226001	JJ6MX1C0	ENSR111706	11/20/06	6338198	0.4075	0.4304		94.69	mg/kg	12/13/06	12/20/06	no	yes	LCS low (86%) HCS low (56%)
	F6K210226001	JJ6MX1C0	ENSR111706	11/20/06	6338198	ND	ND		94.69	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (92%)
[redacted]	F6K210226001D	JJ6MX D	ENSR111706	11/20/06	6338198	5.2025	5.494		94.69	mg/kg	12/13/06	12/20/06	no	yes	LCS low (86%) HCS low (56%)
	F6K210226001D	JJ6MX1E5	ENSR111706	11/20/06	6338198	ND	ND		94.69	mg/kg	12/04/06	12/04/06	yes	yes	LCS low (0.6%) blks running ~3ppb; distillation apparatus not sealed
	F6K210226001D	JJ6MX1E5	ENSR111706	11/20/06	6338198		0		94.69	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (92%)
[redacted]	F6K210226001S	JJ6MX S	ENSR111706	11/20/06	6338198	4.3925	4.639		94.69	mg/kg	12/13/06	12/20/06	no	yes	LCS low (86%) HCS low (56%)
	F6K210226001S	JJ6MX1E4	ENSR111706	11/20/06	6338198	ND	ND		94.69	mg/kg	12/04/06	12/04/06	yes	yes	LCS low (0.6%) blks running ~3ppb; distillation apparatus not sealed; MS recovery 0%
	F6K210226001S	JJ6MX1E4	ENSR111706	11/20/06	6338198	4.8605	5.13306579		94.69	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (92%)
[redacted]	F6K210226002	JJ6Q4	ENSR111706	11/20/06	6338198	ND	ND		94.35	mg/kg	12/13/06	12/20/06	no	yes	LCS low (86%) HCS low (56%)
	F6K210226002	JJ6Q41CA	ENSR111706	11/20/06	6338198	ND	ND		94.35	mg/kg	12/04/06	12/04/06	yes	yes	LCS low (0.6%) blks running ~3ppb; distillation apparatus not sealed
	F6K210226002	JJ6Q41CA	ENSR111706	11/20/06	6338198	ND	ND		94.35	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (92%)
[redacted]	F6K210226002D	JJ6Q4 D	ENSR111706	11/20/06	6338198	3.38	3.588		94.35	mg/kg	12/13/06	12/20/06	no	yes	LCS low (86%) HCS low (56%)
	F6K210226002D	JJ6Q41FJ	ENSR111706	11/20/06	6338198	0.6245	0.662		94.35	mg/kg	12/04/06	12/04/06	yes	yes	LCS low (0.6%) blks running ~3ppb; distillation apparatus not sealed
	F6K210226002D	JJ6Q41FJ	ENSR111706	11/20/06	6338198	3.5105	3.72072072		94.35	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (92%)
[redacted]	F6K210226002S	JJ6Q4 S	ENSR111706	11/20/06	6338198	3.517	3.727		94.35	mg/kg	12/13/06	12/20/06	no	yes	LCS low (86%) HCS low (56%)
	F6K210226002S	JJ6Q41FH	ENSR111706	11/20/06	6338198	ND	ND		94.35	mg/kg	12/04/06	12/04/06	yes	yes	LCS low (0.6%) blks running ~3ppb; distillation apparatus not sealed; MS recovery 0%
	F6K210226002S	JJ6Q41FH	ENSR111706	11/20/06	6338198	3.801	4.02861685		94.35	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (92%)
[redacted]	F6K210226003	JJ6RJ	ENSR111706	11/20/06	6338198	ND	ND		92.92	mg/kg	12/13/06	12/20/06	no	yes	LCS low (86%) HCS low (56%)
	F6K210226003	JJ6RJ1CH	ENSR111706	11/20/06	6338198	ND	ND		92.92	mg/kg	12/04/06	12/04/06	yes	yes	LCS low (0.6%) blks running ~3ppb; distillation apparatus not sealed
	F6K210226003	JJ6RJ1CH	ENSR111706	11/20/06	6338198	ND	ND		92.92	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (92%)
[redacted]	F6K210226004	JJ6R1	ENSR111706	11/20/06	6338198	ND	ND		92.37	mg/kg	12/13/06	12/20/06	no	yes	LCS low (86%) HCS low (56%)

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	F6K210226004	JJ6R11CL	ENSR111706	11/20/06	6338198	ND	ND	92.37	mg/kg	12/04/06	12/04/06	yes	yes	LCS low (0.6%) blks running ~3ppb; distillation apparatus not sealed
	F6K210226004	JJ6R11CL	ENSR111706	11/20/06	6338198	ND	ND	92.37	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (92%)
[redacted]	F6K210226005	JJ6TC	ENSR111706	11/20/06	6338198	ND	ND	93.72	mg/kg	12/13/06	12/20/06	no	yes	LCS low (86%) HCS low (56%)
	F6K210226005	JJ6TC1CP	ENSR111706	11/20/06	6338198	ND	ND	93.72	mg/kg	12/04/06	12/04/06	yes	yes	LCS low (0.6%) blks running ~3ppb; distillation apparatus not sealed
	F6K210226005	JJ6TC1CP	ENSR111706	11/20/06	6338198	ND	ND	93.72	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (92%)
[redacted]	F6K210226006	JJ8P5	ENSR111706	11/20/06	6338198	ND	ND	76.66	mg/kg	12/13/06	12/20/06	no	yes	LCS low (86%) HCS low (56%)
	F6K210226006	JJ8P51CT	ENSR111706	11/20/06	6338198	3.889	5.073	76.66	mg/kg	12/04/06	12/04/06	yes	yes	LCS low (0.6%) blks running ~3ppb; distillation apparatus not sealed; MS recovery 75%
	F6K210226006	JJ8P51CT	ENSR111706	11/20/06	6338198	ND	ND	76.66	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (92%)
[redacted]	F6K210226007	JJ8QK	ENSR111706	11/20/06	6338198	ND	ND	92.95	mg/kg	12/13/06	12/20/06	no	yes	LCS low (86%) HCS low (56%)
	F6K210226007	JJ8QK1CA	ENSR111706	11/20/06	6338198	ND	ND	92.95	mg/kg	12/04/06	12/04/06	yes	yes	LCS low (0.6%) blks running ~3ppb; distillation. apparatus not sealed
	F6K210226007	JJ8QK1CA	ENSR111706	11/20/06	6338198	ND	ND	92.95	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (92%)
[redacted]	F6K210226007D	JJ8QK D	ENSR111706	11/20/06	6338198	4.3165	4.6439	92.95	mg/kg	12/13/06	12/20/06	no	yes	LCS low (86%) HCS low (56%)
	F6K210226007D	JJ8QK1FT	ENSR111706	11/20/06	6338198	ND	ND	92.95	mg/kg	12/04/06	12/04/06	yes	yes	LCS low (0.6%) blks running ~3ppb; distillation apparatus not sealed
	F6K210226007D	JJ8QK1FT	ENSR111706	11/20/06	6338198	5.242	5.63959118	92.95	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (92%)
[redacted]	F6K210226007S	JJ8QK S	ENSR111706	11/20/06	6338198	4.437	4.7735	92.95	mg/kg	12/13/06	12/20/06	no	yes	LCS low (86%) HCS low (56%)
	F6K210226007S	JJ8QK1FR	ENSR111706	11/20/06	6338198	74.75		92.95	mg/kg	12/04/06	12/04/06	yes	yes	LCS low (0.6%) blks running ~3ppb; distillation apparatus not sealed
	F6K210226007S	JJ8QK1FR	ENSR111706	11/20/06	6338198	3.299	3.54922001	92.95	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (92%)
[redacted]	F6K210226008	JJ8V6	ENSR111706	11/20/06	6338198	ND	ND	91.26	mg/kg	12/13/06	12/20/06	no	yes	LCS low (86%) HCS low (56%)
	F6K210226008	JJ8V61CH	ENSR111706	11/20/06	6338198	ND	ND	91.26	mg/kg	12/04/06	12/04/06	yes	yes	LCS low (0.6%) blks running ~3ppb; distillation apparatus not sealed
	F6K210226008	JJ8V61CH	ENSR111706	11/20/06	6338198	ND	ND	91.26	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (92%)
[redacted]	F6K210226009	JJ8WC	ENSR111706	11/20/06	6338198	ND	ND	89.12	mg/kg	12/13/06	12/20/06	no	yes	LCS low (86%) HCS low (56%)
	F6K210226009	JJ8WC1CP	ENSR111706	11/20/06	6338198	ND	ND	89.12	mg/kg	12/04/06	12/04/06	yes	yes	LCS low (0.6%) blks running ~3ppb; distillation apparatus not sealed
	F6K210226009	JJ8WC1CP	ENSR111706	11/20/06	6338198	ND	ND	89.12	mg/kg	01/12/07	01/15/07	no	no	LCS acceptable (92%)
[redacted]	F6K210226012	JJ8W51CN	ENSR111706	11/20/06	6338419	ND	ND	N/A	ug/L	12/12/06	12/13/06	no	yes	LCS acceptable (93%)
[redacted]	F6K210226012S	JJ8W51FD	ENSR111706	11/20/06	6338419	103.4	103.4	N/A	ug/L	12/12/06	12/13/06	no	yes	LCS acceptable (93%)
[redacted]	F6K210226012X	JJ8W51FE	ENSR111706	11/20/06	6338419	ND	ND	N/A	ug/L	12/12/06	12/13/06	no	yes	LCS acceptable (93%)
[redacted]														
[redacted]	F6K290206001	JKG0H1CM	ENSR112906	11/28/06	6338419	ND	ND	N/A	ug/L	12/12/06	12/13/06	yes	yes	LCS acceptable (93%)
[redacted]	F6K300168001	JKJQ51CK	ENSR112906	11/29/06	6338419	ND	ND	N/A	ug/L	12/12/06	12/13/06	yes	yes	LCS acceptable (93%)
[redacted]	F6K300168002	JKJTN1CQ	ENSR112906	11/29/06	6338419	ND	ND	N/A	ug/L	12/12/06	12/13/06	yes	yes	LCS acceptable (93%)
[redacted]	F6K300168003	JKJT31CQ	ENSR112906	11/29/06	6338419	ND	ND	N/A	ug/L	12/12/06	12/13/06	yes	yes	LCS acceptable (93%)
[redacted]	F6K300168004	JKJT61CQ	ENSR112906	11/29/06	6338419	ND	ND	N/A	ug/L	12/12/06	12/13/06	yes	yes	LCS acceptable (93%)
[redacted]	F6L010196001	JKMPR1CM	ENSR112906	11/30/06	6338419	ND	ND	N/A	ug/L	12/12/06	12/13/06	yes	yes	LCS acceptable (93%)
[redacted]	F6L010196002	JKMQW1CU	ENSR112906	11/30/06	6338419	ND	ND	N/A	ug/L	12/12/06	12/13/06	yes	yes	LCS acceptable (93%)
[redacted]	F6L010196003	JKMQ11CU	ENSR112906	11/30/06	6338419	ND	ND	N/A	ug/L	12/12/06	12/13/06	yes	yes	LCS acceptable (93%)
[redacted]	F6L010196004	JKMRK1CU	ENSR112906	11/30/06	6338419	ND	ND	N/A	ug/L	12/12/06	12/13/06	yes	yes	LCS acceptable (93%)
[redacted]	F6L020205001	JKPND1CM	ENSR112906	12/1/06	6338419	ND	ND	N/A	ug/L	12/12/06	12/13/06	yes	yes	LCS acceptable (93%)
[redacted]	F6L020205003	JKPNW1CT	ENSR112906	12/1/06	6338419	ND	ND	N/A	ug/L	12/12/06	12/13/06	yes	yes	LCS acceptable (93%)
[redacted]	F6L020205004	JKPNX1CT	ENSR112906	12/1/06	6346474	ND	ND	N/A	ug/L	12/13/06	12/20/06	yes	yes	LCS low (88%); HCS 69%
[redacted]	F6L020205004	JKPNX1CT	ENSR112906	12/1/06	6346474	5.25	5.25	N/A	ug/L	12/22/06	01/05/07	no	yes	LCS low (86%)
[redacted]	F6L020205004	JKPNX2CT	ENSR112906	12/1/06	7012142	ND	ND	N/A	ug/L	12/29/06	01/05/07	no	yes	LCS acceptable (102%) run 12/21
[redacted]	F6L020205005	JKPN2	ENSR112906	12/1/06	6346474	ND	ND	N/A	ug/L	12/13/06	12/20/06	yes	yes	LCS low (88%); HCS 69%
[redacted]	F6L020205005	JKPN21CT	ENSR112906	12/1/06	6346474	ND	ND	N/A	ug/L	12/22/06	01/05/07	no	yes	LCS low (86%)
[redacted]	F6L020205005	JKPN22CT	ENSR112906	12/1/06	7012142	ND	ND	N/A	ug/L	12/29/06	01/05/07	no	yes	LCS acceptable (102%) run 12/21
[redacted]	F6L020205006	JKPN5	ENSR112906	12/1/06	6346474	ND	ND	N/A	ug/L	12/13/06	12/20/06	yes	yes	LCS low (88%); HCS 69%
[redacted]	F6L020205006	JKPN51CT	ENSR112906	12/1/06	6346474	5.19	5.19	N/A	ug/L	12/22/06	01/05/07	no	yes	LCS low (86%)
[redacted]	F6L020205006	JKPN52CT	ENSR112906	12/1/06	7012142	ND	ND	N/A	ug/L	12/29/06	01/05/07	no	yes	LCS acceptable (102%) run 12/21
[redacted]	F6L020205006D	JKPN5 D	ENSR112906	12/1/06	6346474	ND	ND	N/A	ug/L	12/13/06	12/20/06	yes	yes	LCS low (88%); HCS 69%
[redacted]	F6L020205006D	JKPN51GG	ENSR112906	12/1/06	6346474	86.06	86.06	N/A	ug/L	12/22/06	01/05/07	no	yes	LCS low (86%)
[redacted]	F6L020205006D	JKPN52GG	ENSR112906	12/1/06	7012142	89.83	89.83	N/A	ug/L	12/29/06	01/05/07	no	yes	LCS acceptable (102%) run 12/21
[redacted]	F6L020205006S	JKPN5 S	ENSR112906	12/1/06	6346474	40.59	40.59	N/A	ug/L	12/13/06	12/20/06	yes	yes	LCS low (88%); HCS 69%
[redacted]	F6L020205006S	JKPN51GF	ENSR112906	12/1/06	6346474	95.84	95.84	N/A	ug/L	12/22/06	01/05/07	no	yes	LCS low (86%)
[redacted]	F6L020205006S	JKPN52GF	ENSR112906	12/1/06	7012142	93.92	93.92	N/A	ug/L	12/29/06	01/05/07	no	yes	LCS acceptable (102%) run 12/21
[redacted]														
[redacted]	F6L050180001	JKR62	ENSR120506	12/4/06	6346474	ND	ND	N/A	ug/L	12/13/06	12/20/06	yes	yes	LCS low (88%); HCS 69%

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[redacted]	F6L050180001	JKR622CK	ENSR120506	12/4/06	7012142	ND		ND		N/A	ug/L	12/22/06	12/29/06	no	yes	LCS low (78%); HCS acceptable
	F6L050180002	JKR7D	ENSR120506	12/4/06	6346474	ND		ND		N/A	ug/L	12/13/06	12/20/06	yes	yes	LCS low (88%); HCS 69%
	F6L050180002	JKR7D2CN	ENSR120506	12/4/06	7012142	ND		ND		N/A	ug/L	12/22/06	12/29/06	no	yes	LCS low (78%); HCS acceptable
[redacted]	F6L050180003	JKR7F2CT	ENSR120506	12/4/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L050180004	JKR7G2CN	ENSR120506	12/4/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L050180004D	JKR7G1HH	ENSR120506	12/4/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MS misspiked
	F6L050180004S	JKR7G1HG	ENSR120506	12/4/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MS misspiked
	F6L050180005	JKR7T2CN	ENSR120506	12/4/06	7012197		12.49		12.49	N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L050180006	JKR782CN	ENSR120506	12/4/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L060222001	JKWQM2CM	ENSR120506	12/4/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L060222002	JKWVW2CX	ENSR120506	12/4/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L060222003	JKWWK2C6	ENSR120506	12/4/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L060222004	JKWWQ2C6	ENSR120506	12/4/06	7012197		7.34		7.34	N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L060222004	JKWWQ1C6	ENSR120506	12/4/06	6349287		7.28		7.28	N/A	ug/L	12/15/06	12/29/06	yes	yes	LCS acceptable (106%); MB acceptable
[redacted]	F6L070281001	JK1632CN	ENSR120506	12/6/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L070281002	JK17W2CU	ENSR120506	12/6/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L070281003	JK1732CU	ENSR120506	12/6/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L070281004	JK1762CU	ENSR120506	12/6/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L070281005	JK1772CU	ENSR120506	12/6/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L070281006	JK1782CU	ENSR120506	12/6/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L080240001	JK4XW2CK	ENSR120506	12/7/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L080240002	JK40F2CQ	ENSR120506	12/7/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L080240003	JK40P2CQ	ENSR120506	12/7/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL
	F6L080240004	JK40V2CQ	ENSR120506	12/7/06	7012197	ND		ND		N/A	ug/L	12/15/06	12/21/06	yes	yes	LCS acceptable (102%); MB hit above RL

Data Review Check List

Due Dates: Earliest: Latest:	Run Date:
Method Name/#: CN	
Batch #: 6325305 6326322 6326319	
Lot #s: FLK100205	
NCM's	

Review Item	Yes	No	N/A	Review
Initial Calibration				
Initial Calibration data in this package?	✓			✓
If not, please specify initial calibration date:				
Initial Calibration meets method acceptance criteria:	✓			✓
Corr. Coefficient = 0.995; Y-intercept < the absolute value of the RL				
Is the low level standard = the reporting limit?	✓			✓
Calibration Check (ICV)				
ICV performed with initial calibration?	✓			✓
ICV meets method acceptance criteria (max. 10% D)?	✓			✓
Continuing Calibration Verification (CCV)				
CCV performed at the prescribed frequency?	✓			✓
CCV meets method acceptance criteria (max. 10% D)?	✓			✓
Continuing Calibration Blank (CCB)				
CCB performed after every CCV?	✓			✓
CCB meets method acceptance criteria?	✓			✓
Criteria: < the absolute value of the Reporting Limit (see client sheet for				
Batch QC - Method Blanks				
Is a Method Blank required for this analysis?	✓			✓
Is the method blank below the Reporting Limit for targets of interest?	✓			✓
Batch QC - LCS				
Is a LCS required for this analysis?	✓			✓
Are the LCS (LCSD) recoveries within method acceptance? NCM		✓		NCM
Batch QC - MS/MSD				
Is a MS/MSD or MS/Sample Duplicate required for this analysis?	✓			
Are the MS(MSD) recoveries within method acceptance?		✓		NCM
Batch QC - RPD				
MS/MSD or Sample/Sample Duplicate RPD within acceptance criteria	✓			✓
Sample Results - Report				
Are samples bracketed by acceptable CCV/CCB?	✓			✓
Are results within the calibration range?	✓			✓
Was analysis performed within Hold Time?	✓			✓
Did samples require dilution due to: (check one if applicable)	✓			✓
matrix interference ✓ high target analyte concentration				
If dilutions were performed, was it within Hold Time?	✓			✓
If dilutions were performed, are the undiluted runs in this submission?	✓			✓
If not, please indicate where found:				
Sample Results - Misc. information				
Are Batch sheets, Preparation Logs (if applicable) included?	✓			✓
Are copies of run logs included, initialed and dated?	✓			✓
Were manual calculations performed? reviewer must check calculations		✓		✓
Were manual integrations performed, dated, and initialed?		✓		✓
Client requirement sheets followed in data package?	✓			✓
Reagents and Standards documented on prep/batch sheets?				✓

Additional Comments:

Analyst/Date: 12/4/06 **Reviewer/Date:** 12-07-06

RQC050 Severn Trent Laboratories, Inc. Run Date: 11/22/06
WET CHEM BATCHSHEET Time: 11:14:33

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6326322** INITIALS: DATA ENTRY:
PREP DATE: 11/22/06 PREP _____ INITIALS _____
COMP DATE: 11/22/06 ANAL _____ DATE _____
USER: THOMASD

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJCA2-1-CK	F-6K090232-002	XX I 06 QP 01	Y-D		GWSA14
JJFLD-1-CT	F-6K100205-002	XX I 06 QP 01	Y-D		EB110906
JJJH8-1-CU	F-6K110180-006	XX I 06 QP 01	Y-D		EB111006
JJJH8-1-C6	F-6K110180-006-S	XX I 06 QP 01	Y-D		EB111006
JJJH8-1-C7	F-6K110180-006-X	XX I 06 QP 01	Y-D		EB111006 DUP
JJNCF-1-CV	F-6K140246-001	XX I 06 QP 01	Y-D		EB111306
JJ8W4-1-AA	F-6K220000-322-B	XX I 06 QP 01			INTRA-LAB BLANK
JJ8W4-1-AC	F-6K220000-322-C	XX I 06 QP 01			INTRA-LAB CHECK

Control Limits

(90-110)

(90-110)

RQC050 Severn Trent Laboratories, Inc. Run Date: 11/21/06
WET CHEM BATCHSHEET Time: 13:52:11

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6325305**
PREP DATE: 11/21/06
COMP DATE: 11/21/06
USER: THOMASD

INITIALS:
PREP _____
ANAL _____

DATA ENTRY:
INITIALS _____
DATE _____

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJFQ1-1-CJ	F-6K100205-006	XX A 06 QP 01	Y-D	_____	SA16-30
JJFQ1-1-C3	F-6K100205-006-S	XX A 06 QP 01	Y-D	_____	SA16-30
JJFQ1-1-C4	F-6K100205-006-X	XX A 06 QP 01	Y-D	_____	SA16-30 DUP
JJFRF-1-C4	F-6K100205-007	XX A 06 QP 01	Y-D	_____	SA23-0.5
JJFTR-1-CF	F-6K100205-008	XX A 06 QP 01	Y-D	_____	SA23-10
JJFV9-1-CK	F-6K100205-009	XX A 06 QP 01	Y-D	_____	SA23-20
JJFWM-1-CL	F-6K100205-010	XX A 06 QP 01	Y-D	_____	SA23-20D
JJFWX-1-CL	F-6K100205-011	XX A 06 QP 01	Y-D	_____	SA11-0.5
JJFW8-1-CR	F-6K100205-012	XX A 06 QP 01	Y-D	_____	SA11-0.5D
JJFXE-1-CX	F-6K100205-013	XX A 06 QP 01	Y-D	_____	SA11-10
JJFXL-1-C2	F-6K100205-014	XX A 06 QP 01	Y-D	_____	SA11-20
JJFXQ-1-CD	F-6K100205-015	XX A 06 QP 01	Y-D	_____	SA11-30
JJJEQ-1-CX	F-6K110180-001	XX A 06 QP 01	Y-D	_____	SA12-0.5
JJJHD-1-C6	F-6K110180-002	XX A 06 QP 01	Y-D	_____	SA12-10
JJ61K-1-AA	F-6K210000-305-B	XX A 06 QP 01		_____	INTRA-LAB BLANK
JJ61K-1-AC	F-6K210000-305-C	XX A 06 QP 01		_____	INTRA-LAB CHECK

Control Limits

(90-110)

(90-110)

RQC050 Severn Trent Laboratories, Inc. Run Date: 12/04/06
WET CHEM BATCHSHEET Time: 22:15:12

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: VQ Cyanide, Total (9012, Automated)
QC BATCH #: **6326319** INITIALS: DATA ENTRY:
PREP DATE: 11/22/06 PREP _____ INITIALS _____
COMP DATE: 11/22/06 ANAL _____ DATE _____
USER: HOUGHC

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJHXA-1-AJ	F-6K110131-006	XX I 06 VQ 5I	B		B1L792
JJM8W-1-AJ	F-6K140240-002	XX I 06 VQ 5I	B		B1L6W3
JJM9E-1-AJ	F-6K140240-006	XX I 06 VQ 5I	B		B1L6P2
JJ8WK-1-AA	F-6K220000-319-B	XX I 06 VQ 5I			INTRA-LAB BLANK
JJ8WK-1-AC	F-6K220000-319-C	XX I 06 VQ 5I			INTRA-LAB CHECK

Control Limits

(90-110)

SEVERN TRENT STL

STL St. Louis

DISTILLATION SHEET/EXTRACT CHAIN OF CUSTODY

Analysis: CN- Prep Date: 11-21-06 Batch No.: 6325305

Method No.: Analyst:

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume	FINAL VOLUME	Interference Check Performed?	COMMENTS
1	BLK	50ml	50ml		
2	LCS	50ml			
3	JJFQ1	1g			
4	JJFQ1-S				
5	JJFQ1-X				
6	JJFRF				
7	JJFTR				
8	JJFV9				
9	JJFXL				
10	JJFX0				
11	JJJE0				
12	JJH5				
13	JJFWM				
14	JJFWX				
15	JJFW8				
16	JJFXE				
17					
18					
19					
20					
21					
22					
23					
24					
25					

Note: Document custody transfer on date of disti

(1)

SEVERN TRENT STL

STL St. Louis

DISTILLATION SHEET/EXTRACT CHAIN OF CUSTODY

Analysis: CN

Method No.:

Prep Date: 11-22-06

Analyst:

Batch No.: 6326322

SEQUENCE NO.		SAMPLE NO.	SAMPLE Weight/Volume	FINAL VOLUME	Interference Check Performed?	COMMENTS
1	1	BLK	50gml	50ml		
2	2	LCS				
3	3	JJCA2				
4	4	JJFLS				
5	5	JJJH8				
6	6	JJJH8-S				
7	7	JJJH8-X				
8	8	JJNCF	↓	↓		
9						
10						
11						Batch
12						6326319
13	9	JJHXA				
14	10	JJM8W				
15	11	JJM9E				
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

Note: Document custody transfer on date of disti

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6325305**

Date 12/04/2006
Time 23:46:27

Method Code: **Cyanide, Total**
Analyst: **Chris Hough**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JJFQ1-1-CJ	ND	mg/kg	0.5	11/21-11/27/06	61.92	N		ND	0.81	1.00
JJFQ1-1-C4	ND	mg/kg	0.5	11/21-11/27/06	61.92	N		ND	0.81	1.00
JJFRF-1-C4	ND	mg/kg	0.5	11/21-12/04/06	85.96	N		ND	0.58	1.00
JJFTR-1-CF	ND	mg/kg	0.5	11/21-11/27/06	83.33	N		ND	0.60	1.00
JJFV9-1-CK	ND	mg/kg	0.5	11/21-11/27/06	83.14	N		ND	0.60	1.00
JJFWM-1-CL	ND	mg/kg	0.5	11/21-11/27/06	86.50	N		ND	0.58	1.00
JJFWX-1-CL	ND	mg/kg	0.5	11/21-11/27/06	92.37	N		ND	0.54	1.00
JJFW8-1-CR	ND	mg/kg	0.5	11/21-11/27/06	87.95	N		ND	0.57	1.00
JJFXE-1-CX	ND	mg/kg	0.5	11/21-11/27/06	93.12	N		ND	0.54	1.00
JJFXL-1-C2	ND	mg/kg	0.5	11/21-11/27/06	95.45	N		ND	0.52	1.00
JJFXQ-1-CD	ND	mg/kg	0.5	11/21-11/27/06	61.17	N		ND	0.82	1.00
JJJEQ-1-CX	ND	mg/kg	0.5	11/21-11/27/06	90.04	N		ND	0.56	1.00
JJJHD-1-C6	ND	mg/kg	0.5	11/21-11/27/06	93.27	N		ND	0.54	1.00
JJ61K-1-AA	ND	mg/kg	0.5	11/21-11/27/06	.00			ND	0.50	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JJ61K-1-AC		5.0	5.690 N	113.80	11/21-11/27/06	(90-110)	1.00

Notes:
N Spiked analyte recovery is outside stated control limits.

Measured Spike

Work Order	Exception Code	Measured Sample	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Dil.
JJFQ1-1-C3		ND	5	2.610	52.20	11/21-11/27/06	1.00

Notes:
Results and reporting limits have been adjusted for dry weight.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

12/4/06

STL St. Louis

CYANIDE REPORT

Analyst: HOUGHC
Reviewed by:
Date:

Page: 1 of: 1
Batch No.: 6325305
Run No.:

Prep Date: 11/21/2006
Analysis Date: 11/27/2006
Method No.: 9012

Laboratory ID	Standard Id	Raw Value ug/L	Dilution *	Sample Volume Liter	Sample Volume Gram	Extract Volume, L	Final Concentration as CN ug/L	Final Concentration as CN mg/Kg ← ug/kg
BLANK		0.4			1	50		< 250.00
LCS		113.7			1	50		5690
JJFQ1		0			1	50		< 250.00
JJFQ1 S		52.12			1	50		2610
JJFQ1 X		0.19			1	50		< 250.00
JJFRF		0.58			1	50		< 250.00
JJFTR		0			1	50		< 250.00
JJFV9		0			1	50		< 250.00
JJFWM		1.53			1	50		< 250.00
JJFWX		0			1	50		< 250.00
JJFW8		0			1	50		< 250.00
JJFXE		0			1	50		< 250.00
JJFXL		0			1	50		< 250.00
JJFXQ		0			1	50		< 250.00
JJJEQ		1.1			1	50		< 250.00
JJJHD		0			1	50		< 250.00

* Lack of entry denotes dilution factor equal to 1. Control Limits (Water/Soil): LCS = 90 - 110 MS = 90 - 110

Cyanide ug/L, mg/Kg = $\frac{\text{Raw Value X Dilution X Extract Volume (L)}}{\text{Sample Volume (L,G)}}$

SOP	Rev	Date
STL-WC-0002	4	2/14/2005

File: Slsvr01\Wet Chem Results\Cyanide_6325305.xls, modified 3/22/04

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6326322**

Date 12/04/2006
Time 23:28:45

Method Code: **Cyanide, Total**
Analyst: **Chris Hough**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Output Result	LDL	Dil.
JJCA2-1-CK	ND	ug/L	5	11/22-11/27/06	.00	N		ND	5.0	1.00
JJFLD-1-CT	ND	ug/L	5	11/22-11/27/06	.00	N		ND	5.0	1.00
JJJH8-1-CU	ND	ug/L	5	11/22-11/27/06	.00	N		ND	5.0	1.00
JJJH8-1-C7	ND	ug/L	5	11/22-11/27/06	.00	N		ND	5.0	1.00
JJNCF-1-CV	ND	ug/L	5	11/22-11/27/06	.00	N		ND	5.0	1.00
JJ8W4-1-AA	ND	ug/L	5	11/22-11/27/06	.00			ND	5.0	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JJ8W4-1-AC		100	98.18	98.18	11/22-11/27/06	(90-110)	1.00

Notes:

Measured Spike

Work Order	Exception Code	Measured Sample	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Dil.
JJJH8-1-C6		ND	100	99.2	99.20	11/22-11/27/06	1.00

Notes:

CA 12/4/06

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

STL St. Louis

CYANIDE REPORT

Analyst: HOUGHC
Reviewed by:
Date:

Page: ' of: 1
Batch No.: 6326322
Run No.:

Prep Date: 11/22/2006
Analysis Date: 11/27/2006
Method No.: 9012

Laboratory ID	Standard Id	Raw Value ug/L	Dilution *	Sample Volume Liter	Sample Volume Gram	Extract Volume, L	Final Concentration as CN ug/L	Final Concentration as CN mg/Kg
BLANK		0		0.05		0.05	< 5.00	
LCS		98.18		0.05		0.05	98.2	
JJCA2		1.87		0.05		0.05	< 5.00	
JJFLD		0		0.05		0.05	< 5.00	
JJJH8		0		0.05		0.05	< 5.00	
JJJH8 S		99.17		0.05		0.05	99.2	
JJJH8 X		0		0.05		0.05	< 5.00	
JJNCF		0		0.05		0.05	< 5.00	

* Lack of entry denotes dilution factor equal to 1. Control Limits (Water/Soil): LCS = 90 - 110 MS = 90 - 110

Cyanide ug/L, mg/Kg = $\frac{\text{Raw Value X Dilution X Extract Volume (L)}}{\text{Sample Volume (L,G)}}$

SOP	Rev	Date
STL-WC-0002	4	2/14/2005

File: Slsvr01\Wet Chem Results\Cyanide_6326322.xls, modified 3/22/04

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6326319**

Date 12/04/2006
Time 23:20:54

Method Code: **VQ Cyanide, Total (9012, Automated)**
Analyst: **Chris Hough**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JJHXA-1-AJ	112	ug/L	5	11/22-11/27/06	.00	N		112	5.0	1.00
JJM8W-1-AJ	29	ug/L	5	11/22-11/27/06	.00	N		29.0	5.0	1.00
JJM9E-1-AJ	435	ug/L	5	11/22-11/27/06	.00	N		435	5.0	1.00
JJ8WK-1-AA	ND	ug/L	5	11/22-11/27/06	.00			ND	5.0	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JJ8WK-1-AC		100	98.18	98.18	11/22-11/27/06	(90-110)	1.00

Notes:

CH
12/4/06

MS Run # assigned from 6326322

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

STL St. Louis

CYANIDE REPORT

Analyst: HOUGHC
Reviewed by:
Date:

Page: 1 of: 1
Batch No.: 6326319
Run No.:

Prep Date: 11/22/2006
Analysis Date: 11/27/2006
Method No.: 9012

Laboratory ID	Standard Id	Raw Value ug/L	Dilution *	Sample Volume Liter	Sample Volume Gram	Extract Volume, L	Final Concentration as CN ug/L	Final Concentration as CN mg/Kg
BLANK		0		0.05		0.05	< 5.00	
LCS		98.18		0.05		0.05	98.2	
JJHXA		112.49		0.05		0.05	112	
JJM8W		28.99		0.05		0.05	29	
JJM9E		434.61		0.05		0.05	435	
				0.05		0.05	#VALUE!	
				0.05		0.05	#VALUE!	

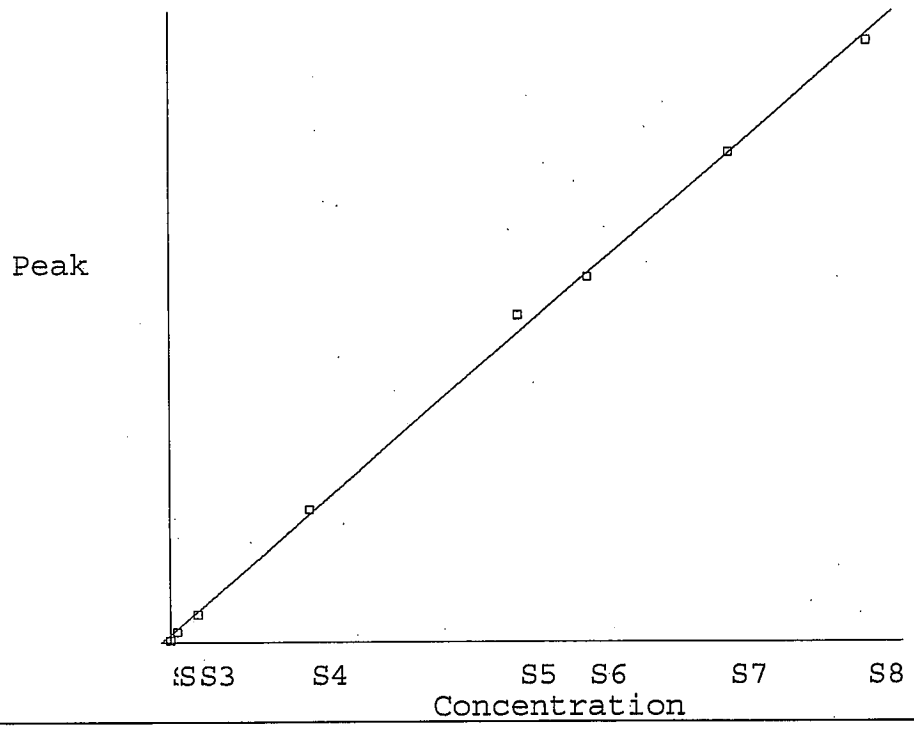
* Lack of entry denotes dilution factor equal to 1. Control Limits (Water/Soil): LCS = 90 - 110 MS = 90 - 110

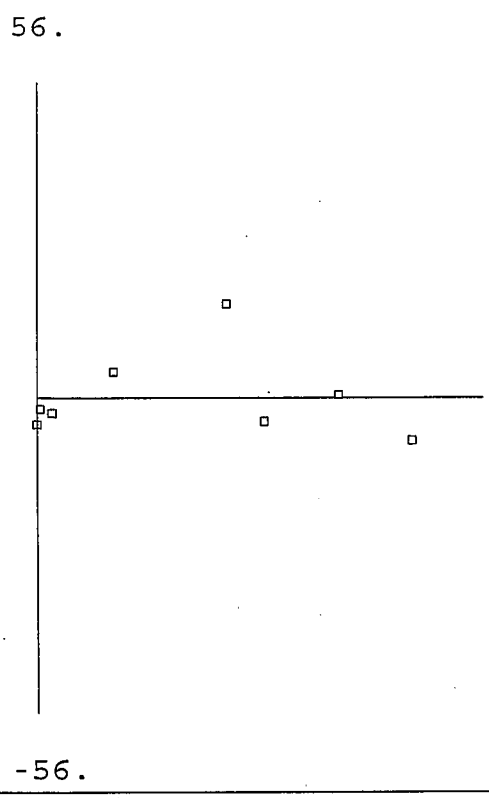
Cyanide ug/L, mg/Kg = $\frac{\text{Raw Value X Dilution X Extract Volume (L)}}{\text{Sample Volume (L,G)}}$

SOP	Rev	Date
STL-WC-0002	4	2/14/2005

File: Slsvr01\Wet Chem Results\Cyanide_6326319.xls, modified 3/22/04

Data File: CN0008A
Method File: CYANIDE
Sample Table File: CN0008





S#	Peak	Value	Calc	Residual
S1	0.14	0.00	-4.33	-4.33
S2	0.79	5.00	3.16	-1.84
S3	2.02	20.00	17.49	-2.51
S4	9.45	100.00	104.05	4.05
S5	23.26	250.00	264.82	14.82
S6	25.95	300.00	296.21	-3.79
S7	34.90	400.00	400.39	0.39
S8	42.87	500.00	493.21	-6.79

Coefficients:

Intercept :	-6.00267
Slope :	11.6451
Std Dev :	7.3623
Corr Coef :	0.999381
R^2 :	0.998763

6325305
6326322
6325310
JJJHE not batched
6326319

Page: 1 Order of Fit: First
Coefs: 1st: -6.002674 2nd: 11.645117

Report Date: 11/27/06
Analysis Date: 11/27/06
Data File: CN0008A
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.998761
Corr: 0.999381
Std. Dev.: 7.362299

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
1	P			491.51		14:09:12
2	S1-0			0.00	szI	14:10:27
3	S2-5			3.16	s	14:11:43
4	S3-20			17.49	s	14:12:57
5	S4-100			104.05	s	14:14:12
6	S5-250			264.82	s	14:15:27
7	S6-300			296.21	s	14:16:42
8	S7-400			400.39	s	14:17:58
9	S8-500			493.21	s	14:19:13
10	ICV			198.98		14:20:28
11	ICB			0.00	zRI	14:21:43
12	BLANK			4.97		14:22:59
13	LCS			71.05/100	71%	14:24:13
14	JH7HH			381.98		14:25:28
15	JH7HH -S			332.89		14:26:43
16	JH7HH -X			586.08	R	14:27:58
17	JJCFA			93.94		14:29:13
18	JJCFQ			39.44		14:30:28
19	JJCFR			74.24		14:31:44
20	BLK			0.40		14:33:01
21	LCS			113.70/100	114%	14:34:14
22	CCV			255.42/250	102%	14:35:29
23	CCB			0.00	zRI	14:36:44
24	JJFQ1			0.00	zRI	14:37:59
25	JJFQ1 -S			52.12		14:39:15
26	JJFQ1 -X			0.19		14:40:31
27	JJFRF			0.58		14:41:46
28	JJFTR			0.00	zI	14:43:01
29	JJFV9			0.00	z	14:44:17
30	JJFXL			0.00	-zRI	14:45:31
31	JJFXQ			0.00	-zRI	14:46:46
32	JJJEQ			1.11		14:48:01
33	JJJHD			0.00	z	14:49:18
34	CCV			256.68/250	103%	14:50:31
35	CCB			0.00	-zRI	14:51:46
36	JJFWM			1.53		14:53:01
37	JJFWX			0.00	-zRI	14:54:15
38	JJFW8			0.00	-zRI	14:55:30
39	JJFXE			0.00	-zRI	14:56:45
40	BLK			0.00	zRI	14:58:00
41	LCS			98.18/100	98%	14:59:15
42	JJCA2			1.87		15:00:33
43	JJFLD			0.00	zI	15:01:47
44	JJJH8			0.00	zRI	15:03:02
45	JJJH8 -S			99.17		15:04:17

6325 305 OK

6326321

Order of Fit: First
Coefs: 1st: -6.002674 2nd: 11.645117

Report Date: 11/27/06
Analysis Date: 11/27/06
Data File: CN0008A
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.998763
Corr: 0.999381
Std. Dev.: 7.362299

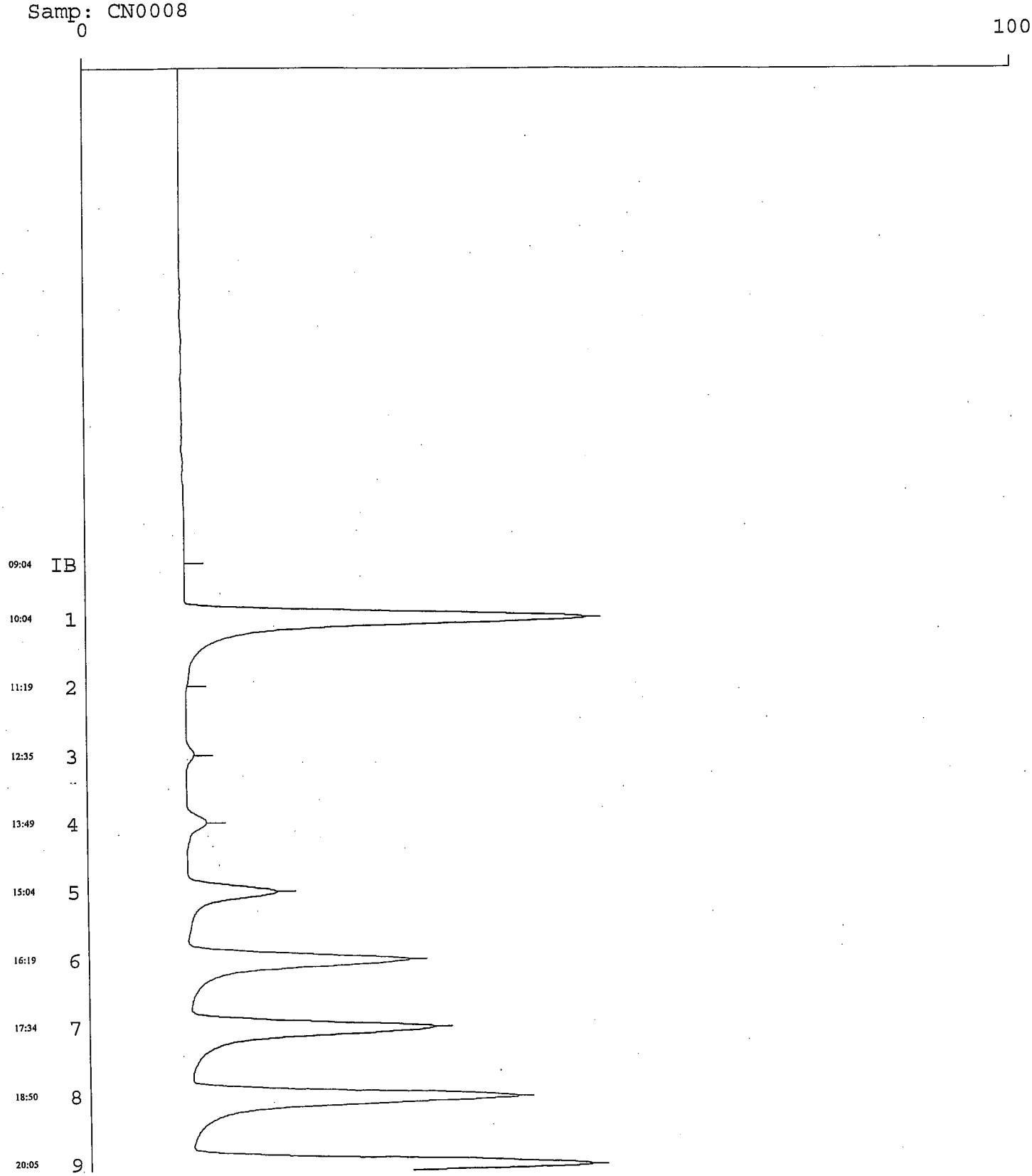
Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
46	CCV			265.06/250	106425	15:05:32
47	CCB			0.00	-zRI	15:06:47
48	JJJH8 -X			0.00	zI	15:08:02
49	JJNCF			1.48	I	15:09:17
50	JJHXA			112.49		15:10:33
51	JJM8W			28.99		15:11:48
52	JJM9E			434.61		15:13:02
53	BLK			7.02		15:14:18
54	LCS			60.59/100	61258	15:15:33
55	JJJHE			3.23		15:16:55
56	JJJHE -S			66.48		15:18:04
57	JJJHE -X			0.60		15:19:24
58	CCV			263.48/250	105925	15:20:34
59	CCB			0.00	zI	15:21:49
60	JH7HH -X 2X			263.69		15:23:04
61	CCV			270.62/250	108825	15:24:19
62	CCB			0.00	zI	15:25:34
63	END OF RUN			0.00	zI	15:26:49

6326321
6326319

11/27/2006 15:29

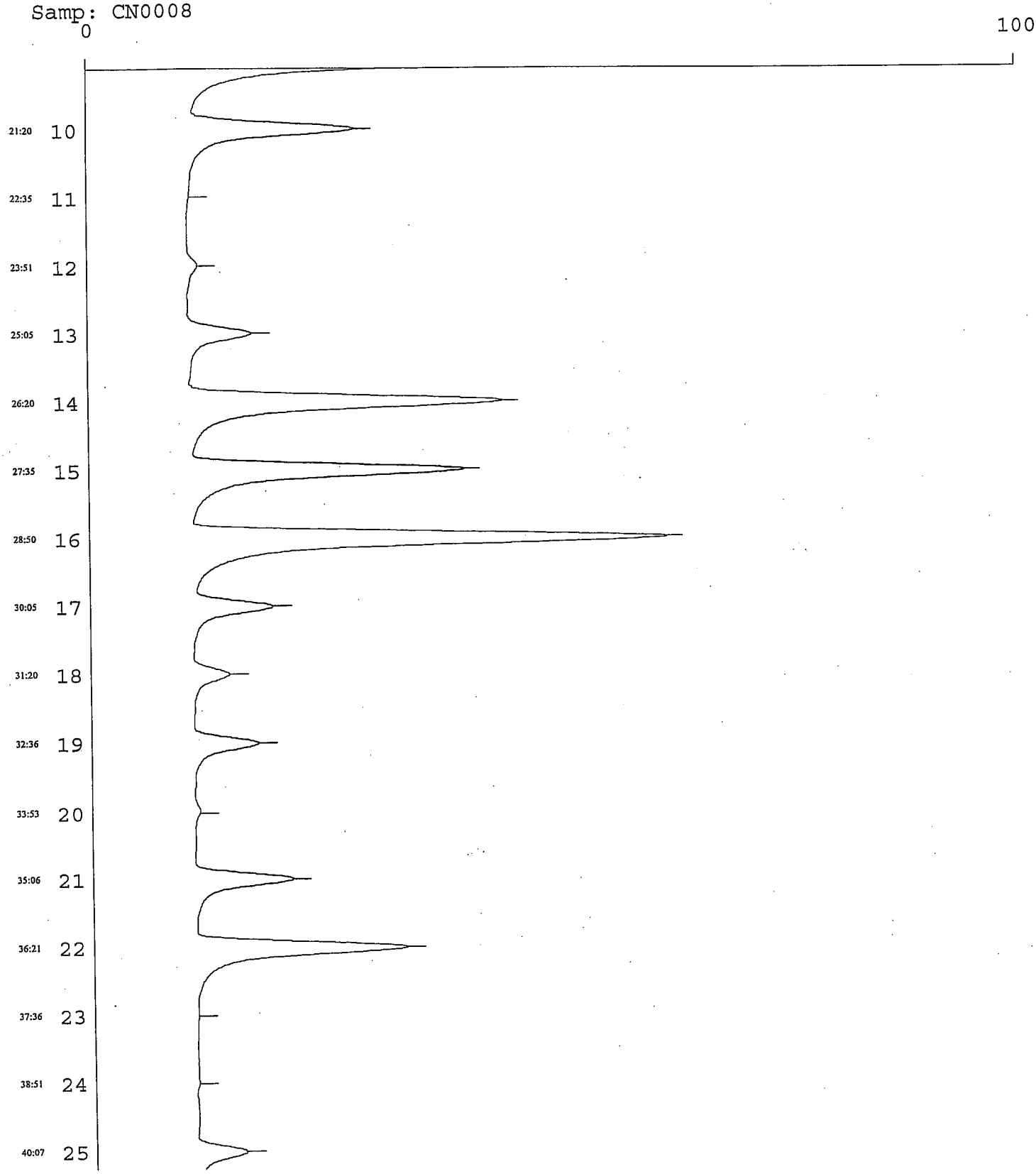
Page:1

Data: CN0008A
Mthd: CYANIDE
Samp: CN0008



11/27/2006 15:29

Data: CN0008A
Mthd: CYANIDE
Samp: CN0008



11/27/2006 15:29

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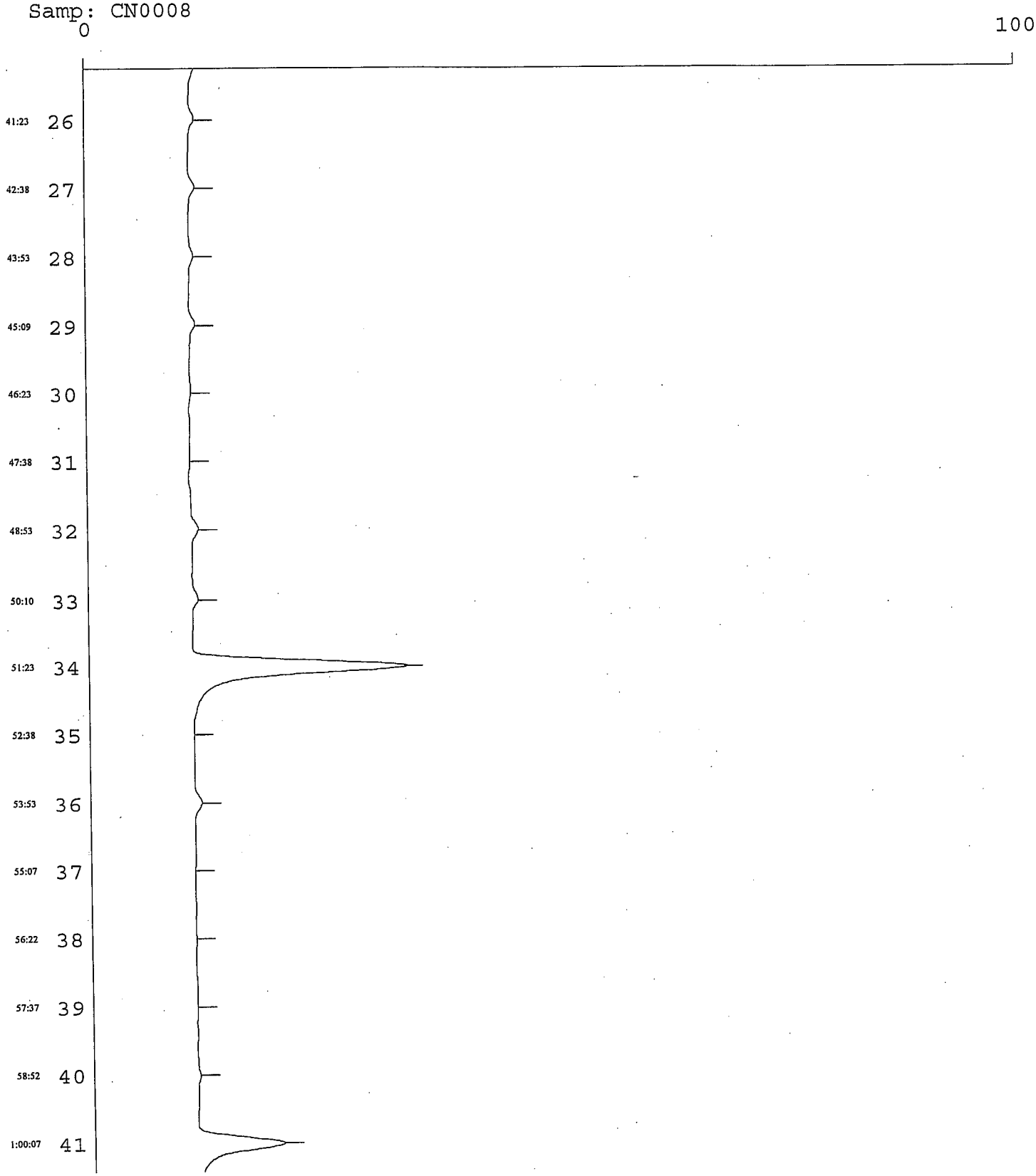
Mthd: CYANIDE
Samp: CN0008



11/27/2006 15:29

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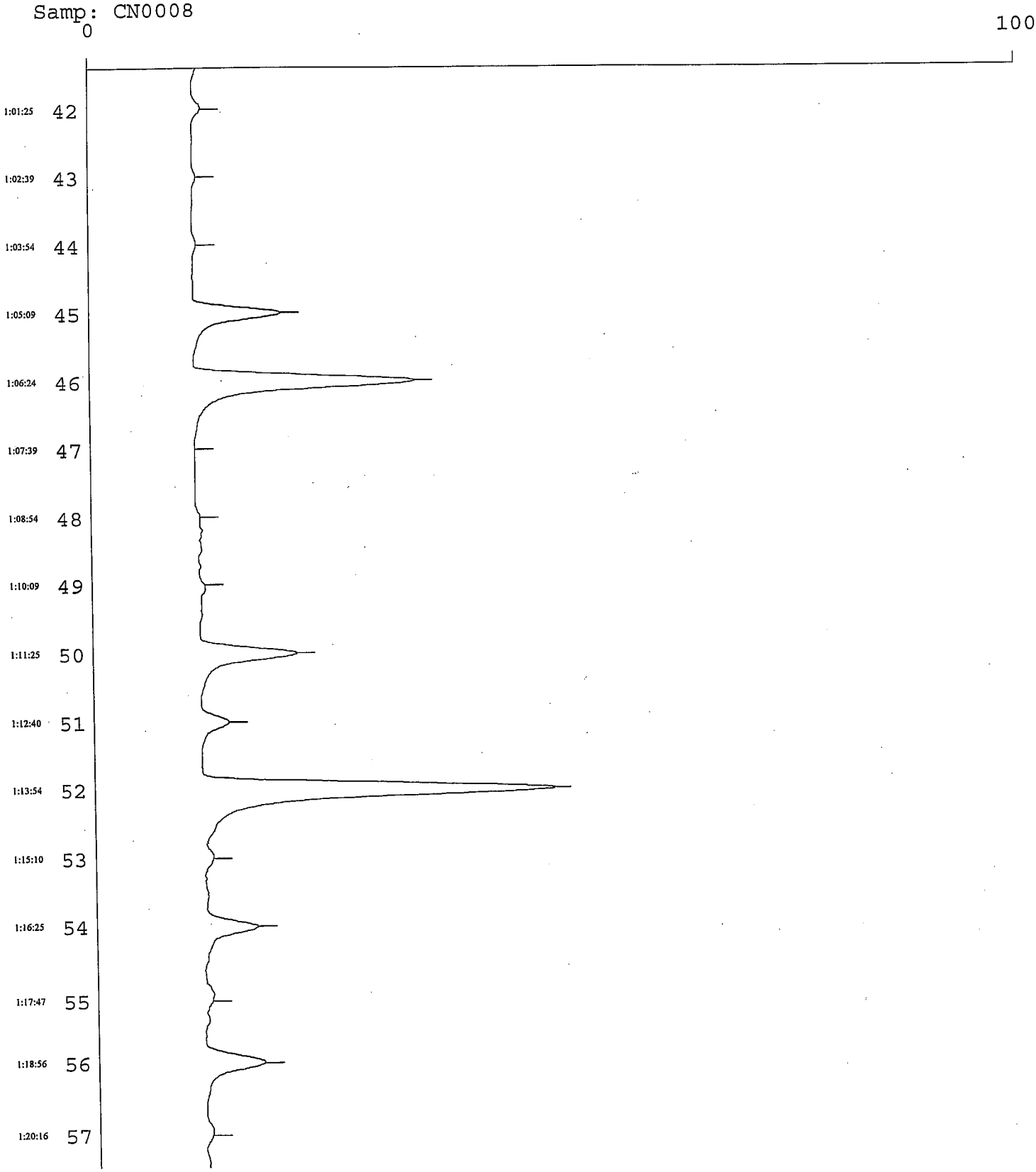
Mthd: CYANIDE
Samp: CN0008



11/27/2006 15:29

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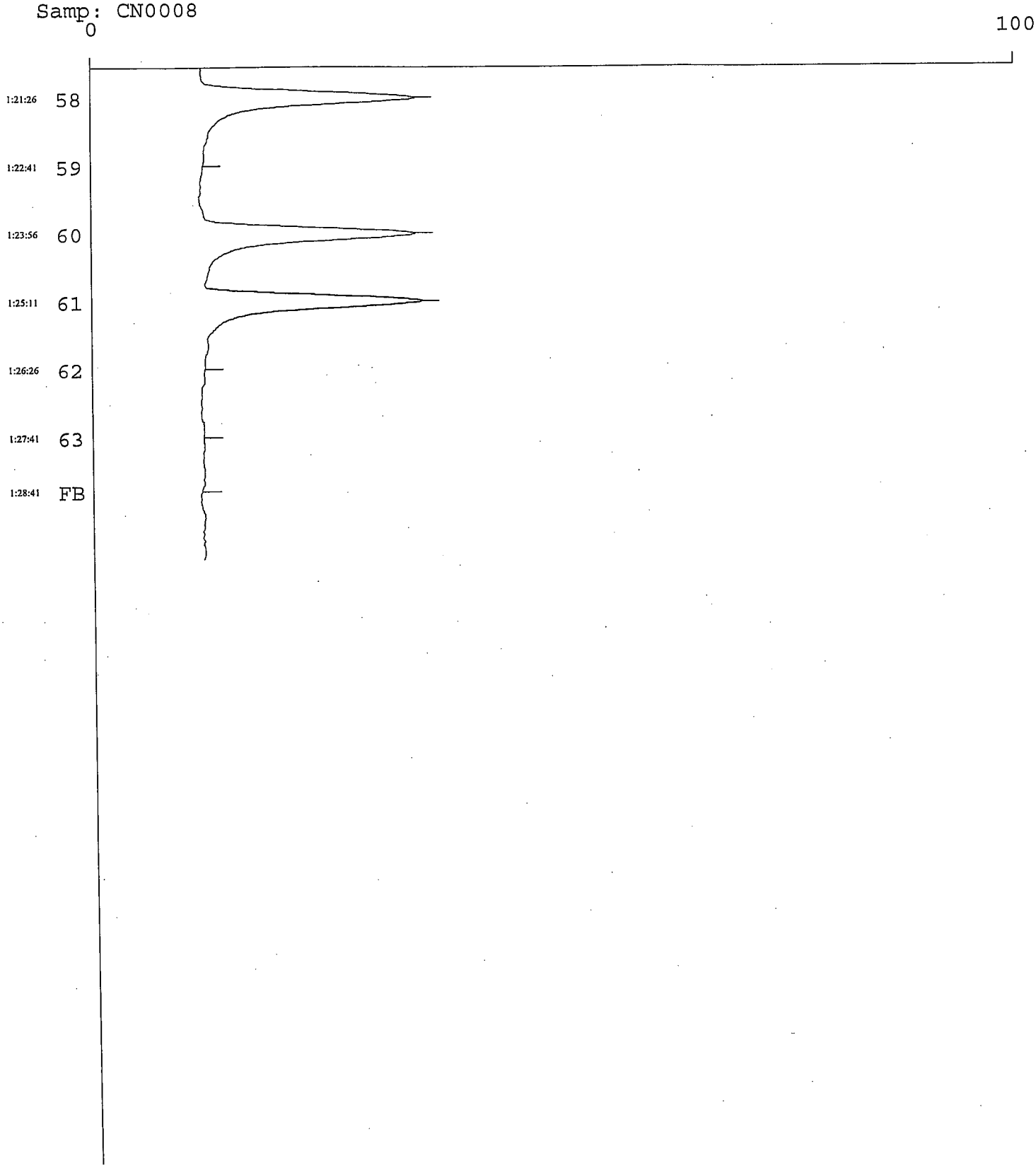
Mthd: CYANIDE
Samp: CN0008



TRENT STL

Data Review Check List

Wet Chemistry

Due Dates: Earliest:	Latest:	Run Date:
Method Name/#: (N	not reported	
Batch #: 6333348 6320310 6317181 6331257 6331214		
Lot #s: F6K150251 F6K160199 F6K170247 F6K180200 F6K080215 F6K090232		
NCM's F6K100205 F6K080325 F6K110180 F6K140246 F6K140289		

Review Item	Yes	No	N/A	Review
Initial Calibration				
Initial Calibration data in this package?	✓			✓
If not, please specify initial calibration date:				
Initial Calibration meets method acceptance criteria:	✓			✓
Corr. Coefficient = 0.995; Y-intercept < the absolute value of the RL				
Is the low level standard = the reporting limit?		✓		
Calibration Check (ICV)				
ICV performed with initial calibration?	✓			✓
ICV meets method acceptance criteria (max. 10% D)?	✓			✓
Continuing Calibration Verification (CCV)				
CCV performed at the prescribed frequency?	✓			✓
CCV meets method acceptance criteria (max. 10% D)?	✓			✓
Continuing Calibration Blank (CCB)				
CCB performed after every CCV?	✓			✓
CCB meets method acceptance criteria?	✓			✓
Criteria: < the absolute value of the Reporting Limit (see client sheet for				
Batch QC - Method Blanks				
Is a Method Blank required for this analysis?	✓			✓
Is the method blank below the Reporting Limit for targets of interest?	✓			✓
Batch QC - LCS				
Is a LCS required for this analysis?	✓			✓
Are the LCS (LCSD) recoveries within method acceptance? NCM		✓		
Batch QC - MS/MSD				
Is a MS/MSD or MS/Sample Duplicate required for this analysis? NCM	✓	✗		✓
Are the MS(MSD) recoveries within method acceptance?	-	✓		
Batch QC - RPD				
MS/MSD or Sample/Sample Duplicate RPD within acceptance criteria	✓			✓
Sample Results - Report				
Are samples bracketed by acceptable CCV/CCB?	✓			✓
Are results within the calibration range?	✓			✓
Was analysis performed within Hold Time? NCM		✓		
Did samples require dilution due to: (check one if applicable)				
matrix interference high target analyte concentration				
If dilutions were performed, was it within Hold Time?		✓		
If dilutions were performed, are the undiluted runs in this submission?		✓		
If not, please indicate where found:				
Sample Results - Misc. information				
Are Batch sheets, Preparation Logs (if applicable) included?	✓			
Are copies of run logs included, initialed and dated?	✓			
Were manual calculations performed? reviewer must check calculations		✓		
Were manual integrations performed, dated, and initialed?		✓		
Client requirement sheets followed in data package?	✓			
Reagents and Standards documented on prep/batch sheets?	✓			

Additional Comments:

Analyst/Date: [illegible] JC **Reviewer/Date:** [illegible] 12/18/01

RQC050 Severn Trent Laboratories, Inc. Run Date: 12/17/06
WET CHEM BATCHSHEET Time: 17:21:44

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6333348** INITIALS: DATA ENTRY:
PREP DATE: 12/11/06 PREP _____ INITIALS _____
COMP DATE: 12/11/06 ANAL _____ DATE _____
USER: HOUGHC

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJRAF-1-CQ	F-6K150251-017	XX I 06 QP 01	Y-D		EB111406
JJT4A-1-CN	F-6K160199-001	XX I 06 QP 01	Y-D		EB111506
JJ00E-1-CK	F-6K170247-013	XX I 06 QP 01	Y-D		EB111606 not run Set to N
JJ28E-1-CM	F-6K180200-001	XX I 06 QP 01	Y-D		M29
JJ28E-1-F0	F-6K180200-001-D	XX I 06 QP 01	Y-D		M29
JJ28E-1-FX	F-6K180200-001-S	XX I 06 QP 01	Y-D		M29
JJ28F-1-CV	F-6K180200-002	XX I 06 QP 01	Y-D		EB111706
JK7P7-1-AA	F-6K290000-348-B	XX I 06 QP 01			INTRA-LAB BLANK
JK7P7-1-AC	F-6K290000-348-C	XX I 06 QP 01			INTRA-LAB CHECK

Control Limits

(90-110)

(90-110)

(90-110)

CH 12/17/06

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6333348**

Date 12/17/2006
Time 18:31:31

Method Code: **Cyanide, Total**
Analyst: **Chris Hough**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JJRAF-1-CQ	6.39	ug/L	5	12/11-12/13/06	.00	N		6.4	5.0	1.00
JJT4A-1-CN	ND	ug/L	5	12/11-12/13/06	.00	N		ND	5.0	1.00
JJ00E-1-CK	NONE	ug/L	5	12/11-12/13/06	.00	N		NON	5.0	1.00
JJ28E-1-CM	ND	ug/L	5	12/11-12/13/06	.00	N		ND	5.0	1.00
JJ28F-1-CV	ND	ug/L	5	12/11-12/13/06	.00	N		ND	5.0	1.00
JK7P7-1-AA	ND	ug/L	5	12/11-12/13/06	.00			ND	5.0	1.00

Set to N

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JK7P7-1-AC		100	94.12	94.12	12/11-12/13/06	(90-110)	1.00

Notes:

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	DUP	RPD	Prep. - Anal.	Di
JJ28E-1-FX		ND	100	.898 N	ND	.89	.00	200.00	12/11-12/13/06	

Notes:
N Spiked analyte recovery is outside stated control limits.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

SEVERN TRENT STL

STL St. Louis

CYANIDE DISTILLATION

Due Dates: Earliest: ~~HOLD~~ 11/28 Latest: 12/1	**Analyst/Run Date:** 12-11-06 (3)
Method #/Name: CN- / 9012, 9012A	**Sample Type:** (SOIL) (WATER)
Batch #: 6331257, 6333348	
Lot #s: F6K150251, F6K170199, F6K180200	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	JJQ8W	1g	50 ml	NA	NA	
2	JJQ82	↓	50 ml	↓	↓	
3	JJQ84	↓	50 ml	↓	↓	
4	JJQ84-D	↓	50 ml	↓	↓	
5	JJQ84-S	↓	50 ml	↓	↓	
6	BLK	50ml	50 ml	Y	Y	6333348 ↓
7	LCS	↓	50 ml	↓	↓	
8	HCS	↓	50 ml	↓	↓	
9	JJRAF	↓	50 ml	↓	↓	
10	JJT4A	↓	50 ml	↓	↓	
11	JJ28E	↓	50 ml	↓	↓	
12	JJ28E-D	↓	50 ml	↓	↓	
13	JJ28E-S	↓	50 ml	↓	↓	
14	JJ28F	↓	50 ml	↓	↓	
~~15~~	~~JKM4H~~	↓	50 ml	↓	↓	
16						
~~17~~	~~JKM4H-S~~	↓	50 ml	↓	↓	
~~18~~	~~JKM4H-X~~	↓	50 ml	↓	↓	
19			50 ml			
20			50 ml			

Sent To TRAACS		YES	NO
	Distilled Cyanide Samples		
	Client Requirement Sheets		
	Quantums Batch Sheets		
	Distillation Prep STDlog		

Analyst/Date:
Reviewer/Date:

RQC050 Severn Trent Laboratories, Inc. Run Date: 12/17/06
WET CHEM BATCHSHEET Time: 16:43:43

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6320310** INITIALS: DATA ENTRY:
PREP DATE: 12/08/06 PREP _____ INITIALS _____
COMP DATE: 12/08/06 ANAL _____ DATE _____
USER: HOUGHC

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JH7XJ-1-CW	F-6K080215-015	XX A 06 QP 01	Y-D		SA10-40
JJCG6-1-C0	F-6K090232-007	XX A 06 QP 01	Y-D		SA14-0.5
JJCH3-1-CA	F-6K090232-008	XX A 06 QP 01	Y-D		SA14-10
JJCJT-1-CG	F-6K090232-009	XX A 06 QP 01	Y-D		SA14-20
JJCJ4-1-CJ	F-6K090232-010	XX A 06 QP 01	Y-D		SA14-30
JJCKC-1-CJ	F-6K090232-011	XX A 06 QP 01	Y-D		SA14-40
JJCKX-1-CL	F-6K090232-012	XX A 06 QP 01	Y-D		SA15-0.5
JJCPW-1-CJ	F-6K090232-013	XX A 06 QP 01	Y-D		SA15-10
JJCP7-1-CN	F-6K090232-014	XX A 06 QP 01	Y-D		SA15-10D
JJCQG-1-CU	F-6K090232-015	XX A 06 QP 01	Y-D		SA15-20
JJCQ2-1-CV	F-6K090232-016	XX A 06 QP 01	Y-D		SA15-30
JJCQ5-1-CW	F-6K090232-017	XX A 06 QP 01	Y-D		SA15-35
JJFPD-1-CX	F-6K100205-003	XX A 06 QP 01	Y-D		SA16-0.5
JJFQH-1-C4	F-6K100205-004	XX A 06 QP 01	Y-D		SA16-10
JJFQQ-1-CF	F-6K100205-005	XX A 06 QP 01	Y-D		SA16-20
JLA64-1-AA	F-6K160000-310-B	XX A 06 QP 01			INTRA-LAB BLANK
JLA64-1-AC	F-6K160000-310-C	XX A 06 QP 01			INTRA-LAB CHECK

CH 12/17/06

Control Limits

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6320310**

Date 12/17/2006
Time 17:50:49

Method Code: **Cyanide, Total**
Analyst:**Chris Hough**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JH7XJ-1-CW	ND	mg/kg	0.5	12/08-12/13/06	67.60	N		ND	0.74	1.00
JJCG6-1-C0	ND	mg/kg	0.5	12/08-12/13/06	91.33	N		ND	0.55	1.00
JJCH3-1-CA	ND	mg/kg	0.5	12/08-12/13/06	88.47	N		ND	0.57	1.00
JJCJT-1-CG	ND	mg/kg	0.5	12/08-12/13/06	80.63	N		ND	0.62	1.00
JJCJ4-1-CJ	ND	mg/kg	0.5	12/08-12/13/06	62.54	N		ND	0.80	1.00
JJCKC-1-CJ	ND	mg/kg	0.5	12/08-12/13/06	80.95	N		ND	0.62	1.00
JJCKX-1-CL	1.033	mg/kg	0.5	12/08-12/13/06	86.60	N		1.2	0.58	1.00
JJCPW-1-CJ	ND	mg/kg	0.5	12/08-12/13/06	85.17	N		ND	0.59	1.00
JJCP7-1-CN	ND	mg/kg	0.5	12/08-12/13/06	91.00	N		ND	0.55	1.00
JJCQG-1-CU	ND	mg/kg	0.5	12/08-12/13/06	90.73	N		ND	0.55	1.00
JJCQ2-1-CV	ND	mg/kg	0.5	12/08-12/13/06	73.46	N		ND	0.68	1.00
JJCQ5-1-CW	.544	mg/kg	0.5	12/08-12/13/06	72.72	N		0.75	0.69	1.00
JJFPD-1-CX	ND	mg/kg	0.5	12/08-12/13/06	93.65	N		ND	0.53	1.00
JJFQH-1-C4	ND	mg/kg	0.5	12/08-12/13/06	89.77	N		ND	0.56	1.00
JJFQQ-1-CF	ND	mg/kg	0.5	12/08-12/13/06	91.80	N		ND	0.54	1.00
JLA64-1-AA	ND	mg/kg	0.5	12/08-12/13/06	.00			ND	0.50	1.00

Notes:
Results and reporting limits have been adjusted for dry weight.

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JLA64-1-AC		5.0	3.50 N	70.00	12/08-12/13/06	(90-110)	1.00

Notes:
N Spiked analyte recovery is outside stated control limits.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

(90-110)

SEVERN TRENT STL

STL St. Louis

CYANIDE DISTILLATION

Due Dates: Earliest: Latest:	**Analyst/Run Date:** 12-08-06 (2) (3)
Method #/Name: CN- / 9012, 9012A	**Sample Type:** (SOIL) WATER
Batch #: 6320310	
Lot #s: F6K090232	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	BLK		50 ml			
2	LCS		50 ml			
3	HCS		50 ml			
4	JJCJ4		50 ml			
5	JJCKC		50 ml			
6	JJCKX		50 ml			
7	JJCPW		50 ml			
8	JJCP7		50 ml			
9	JJCQG		50 ml			
10	JJCQ2		50 ml			
11	JJCQ5		50 ml			
12	JJFPD		50 ml			
13	JJFQH		50 ml			
14	JJ7FQQ		50 ml			
15	JJ7XJ		50 ml			
16						
17			50 ml			
18			50 ml			
19			50 ml			
20			50 ml			

Sent To TRAACS		YES	NO
	Distilled Cyanide Samples	✓	
	Client Requirement Sheets	✓	
	Quantums Batch Sheets	✓	
	Distillation Prep STDlog		✓

Analyst/Date:	12-07-06
Reviewer/Date:	

RQC050 Severn Trent Laboratories, Inc. Run Date: 12/17/06
WET CHEM BATCHSHEET Time: 14:47:17

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total

QC BATCH #: **6317181**
PREP DATE: 12/07/~~06~~ 12/8/06
COMP DATE: ~~12~~/07/06
USER: HOUGHC CH 12/17/06

INITIALS:
PREP _____
ANAL _____

DATA ENTRY:
INITIALS _____
DATE _____

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JH8R7-1-CE	F-6K080325-001	XX A 06 QP AI	B		NBP-000000024
JH8R7-1-EA	F-6K080325-001-S	XX A 06 QP AI	B		NBP-000000024
JH8R7-1-EC	F-6K080325-001-X	XX A 06 QP AI	B		NBP-000000024 DUP
JLA5X-1-AA	F-6K130000-181-B	XX A 06 QP AI			INTRA-LAB BLANK
JLA5X-1-AC	F-6K130000-181-C	XX A 06 QP AI			INTRA-LAB CHECK

Control Limits

(90-110)

(90-110)

CH 12/17/06

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6317181**

Date 12/17/2006
Time 17:40:06

Method Code: **Cyanide, Total**
Analyst: **Chris Hough**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JH8R7-1-CE	ND	ug/kg	500	12/07-12/13/06	92.29	N		ND	542	1.00
JH8R7-1-EC	ND	ug/kg	500	12/07-12/13/06	92.29	N		ND	542	1.00
JLA5X-1-AA	ND	ug/kg	500	12/07-12/17/06	.00			ND	500	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JLA5X-1-AC		5000	3501 N	70.02	12/07-12/17/06	(90-110)	1.00

Notes:
N Spiked analyte recovery is outside stated control limits.

Measured Spike

Work Order	Exception Code	Measured Sample	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Dil.
JH8R7-1-EA		ND	5000	4950	99.00	12/07-12/17/06	1.00

Notes:
Results and reporting limits have been adjusted for dry weight.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

SEVERN TRENT STL

STL St. Louis

CYANIDE DISTILLATION

Due Dates: Earliest: Latest:	**Analyst/Run Date:** 12-08-06 (1)
Method #/Name: CN- / 9012, 9012A	**Sample Type:** SOIL WATER
Batch #: 6317181	
Lot #s: F6K080325	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	BLK	1g	50 ml			
2	LCS		50 ml			
3	LCS		50 ml			
4	JJ8R7		50 ml			
5	JJ8R7-S		50 ml			
6	JJ8R7-X		50 ml			
7			50 ml			
8			50 ml			
9			50 ml			
10			50 ml			
11			50 ml			
12			50 ml			
13			50 ml			
14			50 ml			
15			50 ml			
16						
17			50 ml			
18			50 ml			
19			50 ml			
20			50 ml			

Sent To TRAACS	YES	NO
Distilled Cyanide Samples	✓	
Client Requirement Sheets	✓	
Quantums Batch Sheets	✓	
Distillation Prep STDlog		✓

Analyst/Date:	12-07-06
Reviewer/Date:	

STL St. Louis Laboratory
Cyanide Method 335.4/9012B

Page: 1 of: 1

Analyst: Houghc

Prep Date: 12/8/2006

Batch No.: 6317181

Analysis Filename: Cyanide_6317181

Analysis Date: 12/13/2006

Laboratory ID	Standard Conc. ug/L	Raw Value ug/L	Dilution	Sample Volume Liter (Nom. 0.050L)	Sample Volume Gram (Nom. 1 g)	Scrubber Volume, L (Nom. 0.05L)	Combined Prep Factor	Final Concentration as CN ug/L	Final Concentration as CN mg/Kg *	Percent Recovery	RPD
JH8R7		3.75	1		1	0.05	0.05		0.1875		
JH8R7-S		99	1		1	0.05	0.05		4.95		
JH8R7-X		3.5	1		1	0.05	0.05		0.175		
BLK		3.22	1		1	0.05	0.05		0.161		
LCS		70.02	1		1	0.05	0.05		3.501		
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Control Limits (Water/Soil): LCS = 90 - 110; RPD 20%

Control Limits (Water/Soil): MS = 90 - 110; RPD (water) 20%, (soil) 30%

SOP STL-WC-0002 Rev 5 Date 2/28/06

$$\text{Cyanide, total ug/L (mg/Kg)} = \frac{\text{Raw Value X Dilution X Scrubber Volume (L)}}{\text{Sample Volume (L,G)}}$$

 # Results are raw calcuation and do not reflect rounding, requested significant figures, or client reporting limits.

*** Results on spreadsheet are "wet weight".**

File: Slsvr01\Wet Chem Results\Cyanide_6317181.xls, modified 10/16/06

RQC050 Severn Trent Laboratories, Inc. Run Date: 12/17/06
WET CHEM BATCHSHEET Time: 17:02:12

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6331257** INITIALS: DATA ENTRY:
PREP DATE: 12/11/06 PREP _____ INITIALS _____
COMP DATE: 12/11/06 ANAL _____ DATE _____
USER: HOUGHC

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJQ27-1-C4	F-6K150251-002	XX A 06 QP 01	Y-D		SA6-0.5D
JJQ27-1-FE	F-6K150251-002-D	XX A 06 QP 01	Y-D		SA6-0.5D
JJQ27-1-FD	F-6K150251-002-S	XX A 06 QP 01	Y-D		SA6-0.5D
JJQ4W-1-CM	F-6K150251-006	XX A 06 QP 01	Y-D		SA6-35
JJQ46-1-C4	F-6K150251-007	XX A 06 QP 01	Y-D		SA5-0.5
JJQ6Q-1-CF	F-6K150251-008	XX A 06 QP 01	Y-D		SA5-10
JJQ6V-1-CH	F-6K150251-009	XX A 06 QP 01	Y-D		SA5-20
JJQ6X-1-CH	F-6K150251-010	XX A 06 QP 01	Y-D		SA5-30
JJQ62-1-CH	F-6K150251-011	XX A 06 QP 01	Y-D		SA5-37
JJQ7H-1-CF	F-6K150251-012	XX A 06 QP 01	Y-D		SA4-0.5
JJQ8F-1-CK	F-6K150251-013	XX A 06 QP 01	Y-D		SA4-10
JJQ8W-1-CN	F-6K150251-014	XX A 06 QP 01	Y-D		SA4-20
JJQ82-1-CP	F-6K150251-015	XX A 06 QP 01	Y-D		SA4-30
JJQ84-1-CQ	F-6K150251-016	XX A 06 QP 01	Y-D		SA4-40
JJQ84-1-D0	F-6K150251-016-D	XX A 06 QP 01	Y-D		SA4-40
JJQ84-1-DX	F-6K150251-016-S	XX A 06 QP 01	Y-D		SA4-40
JKC8V-1-AA	F-6K270000-257-B	XX A 06 QP 01			INTRA-LAB BLANK
JKC8V-1-AC	F-6K270000-257-C	XX A 06 QP 01			INTRA-LAB CHECK

CH 12/17/06

RQC050 Severn Trent Laboratories, Inc. Run Date: 12/17/06
WET CHEM BATCHSHEET Time: 17:02:12

STL St. Louis

QC BATCH #: **6331258** INITIALS: DATA ENTRY:
PREP DATE: 11/27/06 PREP _____ INITIALS _____
COMP DATE: 12/11/06 ANAL _____ DATE _____
USER: HOUGHC

Control Limits

(90-110)

(90-110)

(90-110)

(90-110)

(90-110)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6331257**

Date 12/17/2006
Time 18:09:36

Method Code: **Cyanide, Total**
Analyst: **Chris Hough**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JJQ27-1-C4	ND	mg/kg	0.5	12/11-12/13/06	86.15	N		ND	0.58	1.00
JJQ4W-1-CM	ND	mg/kg	0.5	12/11-12/13/06	67.41	N		ND	0.74	1.00
JJQ46-1-C4	ND	mg/kg	0.5	12/11-12/13/06	77.45	N		ND	0.65	1.00
JJQ6Q-1-CF	ND	mg/kg	0.5	12/11-12/13/06	85.85	N		ND	0.58	1.00
JJQ6V-1-CH	ND	mg/kg	0.5	12/11-12/13/06	84.80	N		ND	0.59	1.00
JJQ6X-1-CH	ND	mg/kg	0.5	12/11-12/13/06	92.38	N		ND	0.54	1.00
JJQ62-1-CH	ND	mg/kg	0.5	12/11-12/13/06	60.08	N		ND	0.83	1.00
JJQ7H-1-CF	ND	mg/kg	0.5	12/11-12/13/06	91.01	N		ND	0.55	1.00
JJQ8F-1-CK	ND	mg/kg	0.5	12/11-12/13/06	94.01	N		ND	0.53	1.00
JJQ8W-1-CN	ND	mg/kg	0.5	12/11-12/13/06	91.50	N		ND	0.55	1.00
JJQ82-1-CP	ND	mg/kg	0.5	12/11-12/13/06	87.69	N		ND	0.57	1.00
JJQ84-1-CQ	ND	mg/kg	0.5	12/11-12/13/06	94.12	N		ND	0.53	1.00
JKC8V-1-AA	ND	mg/kg	0.5	12/11-12/13/06	.00			ND	0.50	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JKC8V-1-AC		5.0	3.885 N	77.70	12/11-12/13/06	(90-110)	1.00

Notes:
N Spiked analyte recovery is outside stated control limits.

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Dil.
JJQ27-1-FD		ND	5	4.632	4.813	92.64	96.26	3.83	12/11-12/13/06	1.00
JJQ84-1-DX		ND	5	.381 N	4.826	7.62	96.52	170.73	12/11-12/13/06	1.00

Notes:
Results and reporting limits have been adjusted for dry weight.
N Spiked analyte recovery is outside stated control limits.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

SEVERN TRENT STL

STL St. Louis

CYANIDE DISTILLATION

Due Dates: Earliest: ~~HOLD~~ 11/28 Latest: 12/1	**Analyst/Run Date:** 12-11-06 (3)
Method #/Name: CN- / 9012, 9012A	**Sample Type:** SOIL WATER
Batch #: 6331257, 6333348	
Lot #s: F6K150251, F6K170199, F6K180200	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	JJQ8W	1g	50 ml	NA	NA	
2	JJQ82		50 ml			
3	JJQ84		50 ml			
4	JJQ84-D		50 ml			
5	JJQ84-S		50 ml			
6	BLK	50ml	50 ml	Y	Y	6333348 ↓
7	LCS		50 ml			
8	HCS		50 ml			
9	JJRAF		50 ml			
10	JJT4A		50 ml			
11	JJ28E		50 ml			
12	JJ28E-D		50 ml			
13	JJ28E-S		50 ml			
14	JJ28F		50 ml			
~~15~~	~~JKM64~~		50 ml			
16						
~~17~~	~~JKM64-S~~		50 ml			
~~18~~	~~JKM64-X~~		50 ml			
19			50 ml			
20			50 ml			

Sent To TRAACS		YES	NO
	Distilled Cyanide Samples		
	Client Requirement Sheets		
	Quantums Batch Sheets		
	Distillation Prep STDlog		

Analyst/Date:	
Reviewer/Date:	

SEVERN TRENT STL

STL St. Louis

CYANIDE DISTILLATION

Due Dates: Earliest: Latest:	**Analyst/Run Date:** 12-11-06 (2)
Method #/Name: CN- / 9012, 9012A	**Sample Type:** (SOIL) WATER
Batch #: 633124, 633257	
Lot #s: F6K130257,	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	JJQ10	1g	50 ml	NA	NA	
2	JJQ10-D		50 ml			
3	JJQ10-S		50 ml			
4	JJQ48		50 ml			
5	BLK		50 ml			
6	LCS		50 ml			
7	HCS		50 ml			
8	JJQ27		50 ml			
9	JJQ27-D		50 ml			
10	JJQ27-S		50 ml			
11	JJQ4W		50 ml			
12	JJQ46		50 ml			
13	JJQ6Q		50 ml			
14	JJQ6V		50 ml			
15	JJQ6X	↓	50 ml	↓	↓	
16						
17	JJQ62	↓	50 ml	↓	↓	
18	JJQ7H		50 ml			
19	JJQ8F	↓	50 ml	↓	↓	
20			~~50 ml~~			

Sent To TRAACS		YES	NO
	Distilled Cyanide Samples		
	Client Requirement Sheets		
	Quantums Batch Sheets		
	Distillation Prep STDlog		

Analyst/Date:
Reviewer/Date:

RQC050 Severn Trent Laboratories, Inc. Run Date: 12/17/06
WET CHEM BATCHSHEET Time: 16:52:51

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6331214** INITIALS: DATA ENTRY:
PREP DATE: 12/11/06 PREP _____ INITIALS _____
COMP DATE: 12/11/06 ANAL _____ DATE _____
USER: HOUGHC

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJJHE-1-C6	F-6K110180-003	XX A 06 QP 01	Y-D		SA12-20
JJJHE-1-C7	F-6K110180-003-S	XX A 06 QP 01	Y-D		SA12-20
JJJHE-1-C8	F-6K110180-003-X	XX A 06 QP 01	Y-D		SA12-20 DUP
JJJHF-1-C6	F-6K110180-004	XX A 06 QP 01	Y-D		SA12-30
JJNEQ-1-CV	F-6K140246-003	XX A 06 QP 01	Y-D		SA3-0.5
JJNF1-1-C2	F-6K140246-004	XX A 06 QP 01	Y-D		SA3-0.5D
JJNF4-1-CD	F-6K140246-005	XX A 06 QP 01	Y-D		SA3-10
JJNF9-1-CJ	F-6K140246-006	XX A 06 QP 01	Y-D		SA3-20
JJNGF-1-CL	F-6K140246-007	XX A 06 QP 01	Y-D		SA3-30
JJNGH-1-CN	F-6K140246-008	XX A 06 QP 01	Y-D		SA3-40
JJNQD-1-AX	F-6K140289-001	XX A 06 QP 01	B		S-5-1
JJNQ2-1-AX	F-6K140289-002	XX A 06 QP 01	B		S-5-2
JJNQ3-1-AX	F-6K140289-003	XX A 06 QP 01	B		S-5-3
JJQ10-1-CW	F-6K150251-001	XX A 06 QP 01	Y-D		SA6-0.5
JJQ10-1-EL	F-6K150251-001-D	XX A 06 QP 01	Y-D		SA6-0.5
JJQ10-1-EK	F-6K150251-001-S	XX A 06 QP 01	Y-D		SA6-0.5
JJQ3H-1-C4	F-6K150251-003	XX A 06 QP 01	Y-D		SA6-10
JJQ34-1-CF	F-6K150251-004	XX A 06 QP 01	Y-D		SA6-20

CH 12/17/06

RQC050 Severn Trent Laboratories, Inc. Run Date: 12/17/06
WET CHEM BATCHSHEET Time: 16:52:51

STL St. Louis

QC BATCH #: **6331214** INITIALS: DATA ENTRY:
PREP DATE: 12/11/06 PREP _____ INITIALS _____
COMP DATE: 12/11/06 ANAL _____ DATE _____
USER: HOUGHC

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJQ4Q-1-CJ	F-6K150251-005	XX A 06 QP 01	Y-D	_____	SA6-30
JKC57-1-AA	F-6K270000-214-B	XX A 06 QP 01		_____	INTRA-LAB BLANK
JKC57-1-AC	F-6K270000-214-C	XX A 06 QP 01		_____	INTRA-LAB CHECK

Control Limits

(90-110)

(90-110)

(90-110)

(90-110)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6331214**

Date 12/17/2006
Time 18:00:22

Method Code: **Cyanide, Total**
Analyst: **Chris Hough**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JJJHE-1-C6	ND	mg/kg	0.5	12/11-12/13/06	92.40	N		ND	0.54	1.00
JJJHE-1-C8	ND	mg/kg	0.5	12/11-12/13/06	92.40	N		ND	0.54	1.00
JJJHF-1-C6	ND	mg/kg	0.5	12/11-12/13/06	62.01	N		ND	0.81	1.00
JJNEQ-1-CV	ND	mg/kg	0.5	12/11-12/13/06	93.56	N		ND	0.53	1.00
JJNF1-1-C2	ND	mg/kg	0.5	12/11-12/13/06	93.74	N		ND	0.53	1.00
JJNF4-1-CD	ND	mg/kg	0.5	12/11-12/13/06	93.70	N		ND	0.53	1.00
JJNF9-1-CJ	ND	mg/kg	0.5	12/11-12/13/06	91.07	N		ND	0.55	1.00
JJNGF-1-CL	ND	mg/kg	0.5	12/11-12/13/06	77.60	N		ND	0.64	1.00
JJNGH-1-CN	ND	mg/kg	0.5	12/11-12/13/06	67.90	N		ND	0.74	1.00
JJNQD-1-AX	ND	mg/kg	0.5	12/11-12/13/06	89.21	N		ND	0.56	1.00
JJNQ2-1-AX	ND	mg/kg	0.5	12/11-12/13/06	89.06	N		ND	0.56	1.00
JJNQ3-1-AX	ND	mg/kg	0.5	12/11-12/13/06	85.02	N		ND	0.59	1.00
JJQ10-1-CW	ND	mg/kg	0.5	12/11-12/13/06	94.22	N		ND	0.53	1.00
JJQ3H-1-C4	ND	mg/kg	0.5	12/11-12/13/06	92.39	N		ND	0.54	1.00
JJQ34-1-CF	ND	mg/kg	0.5	12/11-12/13/06	92.29	N		ND	0.54	1.00
JJQ4Q-1-CJ	ND	mg/kg	0.5	12/11-12/13/06	94.97	N		ND	0.53	1.00
JKC57-1-AA	ND	mg/kg	0.5	12/11-12/13/06	.00			ND	0.50	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JKC57-1-AC		5.0	4.784	95.68	12/11-12/13/06	(90-110)	1.00

Notes:

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Di
JJQ10-1-EK		ND	5	5.421	4.758	108.42	95.16	13.02	12/11-12/13/06	

Notes:

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6331214**

Date 12/17/2006
Time 18:00:22

Method Code: **Cyanide, Total**
Analyst: **Chris Hough**
Notes:
Results and reporting limits have been adjusted for dry weight.

Measured Spike

Work Order	Exception Code	Measured Sample	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Dil.
JJJHE-1-C7		ND	5	4.813	96.26	12/11-12/13/06	1.00

Notes:
Results and reporting limits have been adjusted for dry weight.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
SULFIDE	13	9	4	0	0	0	2.5

SEVERN TRENT STL

STL St. Louis

CYANIDE DISTILLATION

~~Due Dates:~~ HOLD Earliest: 11/24 Latest:	Analyst/Run Date: 12/1/06
Method #/Name: CN- / 9012, 9012A	Sample Type: SOIL WATER
Batch #: 6331214	
Lot #s: F6K110180, F6K140246,	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	BLK	1g	50 ml	NA	NA	
2	LCS		50 ml			
3	HCS		50 ml			
4	JJHE		50 ml			
5	JJHE-S		50 ml			
6	JJHE-X		50 ml			
7	JJHF		50 ml			
8	JJNEQ		50 ml			
9	JJNF1		50 ml			
10	JJNF4		50 ml			
11	JJNF9		50 ml			
12	JJNGF		50 ml			
13	JJNGH		50 ml			
14	JJNQD		50 ml			
15	JJNQ2		50 ml			
16						
17	JJNQ3		50 ml			
18	JJQ3H		50 ml			
19	JJQ34		50 ml			
~~20~~			~~50 ml~~			

Sent To TRAACS		YES	NO
	Distilled Cyanide Samples		
	Client Requirement Sheets		
	Quantums Batch Sheets		
	Distillation Prep STDlog		

Analyst/Date:
Reviewer/Date:

Page: 1

Order of Fit: First
Coefs: 1st: 0.806510 2nd: 9.182994

Report Date: 12/15/06
Analysis Date: 12/13/06
Data File: CN1213A
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.999325
Corr: 0.999662
Std. Dev.: 5.438048

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
1	P			473.50		14:12:40
2	W			3.90	I	14:13:56
3	S1			0.73	-sI	14:15:12
4	S2			8.10	s	14:16:28
5	S3			21.30	s	14:17:42
6	S4			96.85	s	14:18:57
7	S5			253.34	s	14:20:12
8	S6			288.75	s	14:21:27
9	S7			403.31	s	14:22:41
10	S8			502.62	s	14:23:57
11	ICV			205.02/200	102%	14:25:12
12	ICB			3.84 <5	I	14:26:27
13	BLK			3.36 <5	I	14:27:42
14	LCS			36.30/100	36%	14:28:58
15	JH8R71CE			3.75	I	14:30:12
16	JH8R71EA x			3.50	I	14:31:27
17	JH8R71EC s			99.00		14:32:42
18	BLK			3.22 <5	I	14:33:57
19	LCS			70.02/100	70%	14:35:13
20	JH7XJ1CW			3.39	I	14:36:28
21	JJCG61C0			3.81	I	14:37:43
22	JJCH31CA			4.23	I	14:38:58
23	CCV			237.42/250	95%	14:40:14
24	CCB			3.73 <5	I	14:41:30
25	JJCJT1CG			4.37	I	14:42:46
26	JJCJ41CJ			4.57	I	14:44:02
27	JJCKC1CJ			7.00		14:45:18
28	JJCKX1CL			20.66		14:46:28
29	JJCPW1CJ			6.28	I	14:47:44
30	JJCP71CN			4.90	I	14:49:00
31	JJCQG1CU			8.91		14:50:16
32	JJCQ21CV			3.72	I	14:51:31
33	JJCQ51CW			10.87		14:52:47
34	JJFPD1CX			7.93		14:54:03
35	CCV			255.92/250	102%	14:55:15
36	CCB			3.39 <5	I	14:56:30
37	JJFQH1C4			3.14	I	14:57:45
38	JJFQQ1CF			3.56	I	14:59:00
39	BLK			3.30 <5	I	15:00:15
40	LCS			95.67/100	96%	15:01:31
41	JJJHE1C6			3.25	I	15:02:46
42	JJJHE1C7 xs			4.79	I	15:04:01
43	JJJHE1C8 sx			96.26		15:05:17
44	JJJHF1C6			2.94	I	15:06:31
45	JJNEQ1CV			3.36	I	15:07:46

6317181

6320310

6331214

Page: 2

Order of Fit: First
Coefs: 1st: 0.806510 2nd: 9.182994

Report Date: 12/15/06
Analysis Date: 12/13/06
Data File: CN1213A
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.999325
Corr: 0.999662
Std. Dev.: 5.438048

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
46	JJNF11C2			3.56	I	15:09:01
47	CCV			260.07/250	104%	15:10:16
48	CCB			3.72 <5	I	15:11:31
49	JJNF41CD			5.27	I	15:12:46
50	JJNF91CJ			3.44	I	15:14:01
51	JJNGF1CL			2.97	I	15:15:16
52	JJNGH1CN			3.39	I	15:16:31
53	JJNQD1AX			4.93	I	15:17:46
54	JJNQ21AX			4.68	I	15:19:01
55	JJNQ31AX			4.87	I	15:20:17
56	JJQ101CW			3.95	I	15:21:33
57	JJQ101EL S			108.42		15:22:49
58	JJQ101EK D			95.16		15:24:04
59	CCV			253.45/250	101%	15:25:19
60	CCB			4.28 <5	I	15:26:34
61	JJQ3H1C4			3.81	I	15:27:49
62	JJQ341CF			4.90	I	15:29:04
63	JJQ4Q1CJ			3.98	I	15:30:19
64	BLK			5.29	I	15:31:34
65	LCS			77.70/100	78%	15:32:49
66	JJQ271C4	6331257		4.12	I	15:34:04
67	JJQ271FE D			96.25		15:35:20
68	JJQ271FD S			92.64		15:36:35
69	JJQ4W1CM			4.03	I	15:37:50
70	JJQ461C4			3.56	I	15:39:05
71	CCV			255.36/250	102%	15:40:20
72	CCB			5.07	I	15:41:35
73	JJQ6Q1CF			2.35	I	15:42:50
74	JJQ6V1CH			3.22	I	15:44:05
75	JJQ6X1CH			2.52	I	15:45:20
76	JJQ621CH			2.27	I	15:46:35
77	JJQ7H1CF			2.69	I	15:47:50
78	JJQ8F1CK			3.78	I	15:49:05
79	JJQ8W1CN			4.20	I	15:50:20
80	JJQ821CP			7.98	I	15:51:35
81	JJQ841CQ			6.61	I	15:52:50
82	JJQ841D0 D			96.51		15:54:06
83	CCV			258.61/250	103%	15:55:21
84	CCB			4.73 <5	I	15:56:36
85	JJQ841DX S			7.62	I	15:57:51
86	BLK			4.68 <5	I	15:59:06
87	LCS			94.12/100	94%	16:00:22
88	~~JJRAF1CQ~~			88.26		16:01:37
89	JJT4A1CN			6.39	I	16:02:52
90	~~JJ00E1CK~~ MISSING			2.99	I	16:04:07

MISS post

LCS JJRAF1CQ CH 12/14/06

JJT4A

6333348

Page: 3

Order of Fit: First
Coefs: 1st: 0.806510 2nd: 9.182994

Report Date: 12/15/06
Analysis Date: 12/13/06
Data File: CN1213A
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.999325
Corr: 0.999662
Std. Dev.: 5.438048

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
91	JJ28E1CM			1.84	I	16:05:22
92	JJ28E1F0 D			17.96		16:06:38
93	JJ28E1FX S			2.46	I	16:07:53
94	JJ28F1CV			2.66	I	16:09:08
95	CCV			244.82/250 98%		16:10:23
96	CCB			4.84 <5	I	16:11:38
97	BLK			3.69 <5	I	16:12:53
98	LCS			93.14/100 93%		16:14:08
99	JJ8W51CN			3.64	I	16:15:23
100	JJ8W51FD S			103.40		16:16:39
101	JJ8W51FE X			3.81	I	16:17:54
102	JKG0H1CM			3.55	I	16:19:09
103	JKJQ51CK			3.75	I	16:20:24
104	JKJTN1CQ			1.70	I	16:21:39
105	JKJT31CQ			3.47	I	16:22:54
106	JKJT61CQ			2.10	I	16:24:09
107	CCV			237.08/250 95%		16:25:25
108	CCB			4.06 <5	I	16:26:40
109	JKMPR1CM			1.34	I	16:27:55
110	JKMQW1CU			1.53	I	16:29:10
111	JKMQ11CU			4.65	I	16:30:25
112	JKMRK1CU			4.84	I	16:31:40
113	JKPND			3.02	I	16:32:55
114	JKPNW			1.42	I	16:34:11
115	BLK			11.93		16:35:27
116	LCS			25.36		16:36:42
117	F6K140153-001			4.03	I	16:37:57
118	F6K140153-001X			1.09	I	16:39:12
119	CCV			239.88/250 96%		16:40:27
120	CCB			3.50 <5	I	16:41:42
121	F6K140153-001S			20.29		16:42:57
122	F6K140153-002			8.60		16:44:13
123	F6K140153-003			13.05		16:45:28
124	F6K140153-004			2.26	I	16:46:43
125	F6K140153-005			2.23	I	16:47:58
126	F6K140153-006			3.10	I	16:49:13
127	F6K140153-007			3.75	I	16:50:28
128	F6K140153-008			1.48	I	16:51:43
129	F6K140153-009			0.78	-I	16:52:58
130	F6K150192-001			0.97	I	16:54:13
131	CCV			240.89/250 96%		16:55:28
132	CCB			3.38 <5	I	16:56:43
133	F6K150192-002			1.11	I	16:57:58
134	F6K150192-003			1.98	I	16:59:13
135	F6K150192-004			2.63	I	17:00:28

6338419

Reactive

6341147

Page: 4

Order of Fit: First
Coefs: 1st: 0.806510 2nd: 9.182994

Report Date: 12/15/06
Analysis Date: 12/13/06
Data File: CN1213A
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.999325
Corr: 0.999662
Std. Dev.: 5.438048

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
136	F6K150192-005			2.15	I	17:01:43
137	F6K150192-006			2.57	I	17:02:58
138	F6K150192-007			1.42	I	17:04:13
139	F6K150192-008			1.84	I	17:05:28
140	F6K150192-009			2.26	I	17:06:43
141	F6K160161-001			2.01	I	17:07:58
142	F6K160161-002			2.21	I	17:09:14
143	CCV			251.54	250 101%	17:10:30
144	CCB			3.05	<5 I	17:11:45
145	BLK			1.67	I	17:13:00
146	LCS			779.34	R	17:14:16
147	F6K160161-003			7.45	I	17:15:31
148	F6K160161-004			3.16	I	17:16:46
149	F6K160161-005			1.56	I	17:18:01
150	F6K160161-006			1.53	I	17:19:16
151	F6K160161-007			2.85	I	17:20:31
152	F6K160161-008			0.58	-RI	17:21:46
153	F6K160161-009			2.35	I	17:23:01
154	F6K160161-010			1.87	I	17:24:16
155	CCV			242.24	250 97%	17:25:31
156	CCB			3.16	<5 I	17:26:46
157	F6K160161-010X			1.78	I	17:28:01
158	F6K160161-010S			370.65		17:29:17
159	F6K280158-001			3.52	I	17:30:32
160	F6K280158-002			1.25	I	17:31:47
161	F6K280158-003			71.64		17:33:03
162	F6K290125-001			1.42	I	17:34:18
163	F6K290125-002			1.17	I	17:35:33
164	F6K290125-003			1.14	I	17:36:48
165	F6K290125-004			4.70	I	17:38:03
166	F6K290125-005			1.31	I	17:39:18
167	CCV			238.31	250 95%	17:40:33
168	CCB			2.60	<5 I	17:41:48
169	F6K290125-006			1.67	I	17:43:03
170	F6K290125-007			1.64	I	17:44:18
171	F6K290125-008			2.74	I	17:45:33
172	F6K290125-009			0.91	I	17:46:48
173	BLK			0.44	-RI	17:48:04
174	LCS			113.21		17:49:20
175	F6K220292-001			1.50	I	17:50:35
176	F6L010116-001			1.25	I	17:51:50
177	F6L010116-002			0.55	-RI	17:53:05
178	F6K290125-010			1.19	I	17:54:20
179	CCV			242.91	250 97%	17:55:35
180	CCB			2.26	<5 I	17:56:50

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Order of Fit: First
Coefs: 1st: 0.806510 2nd: 9.182994

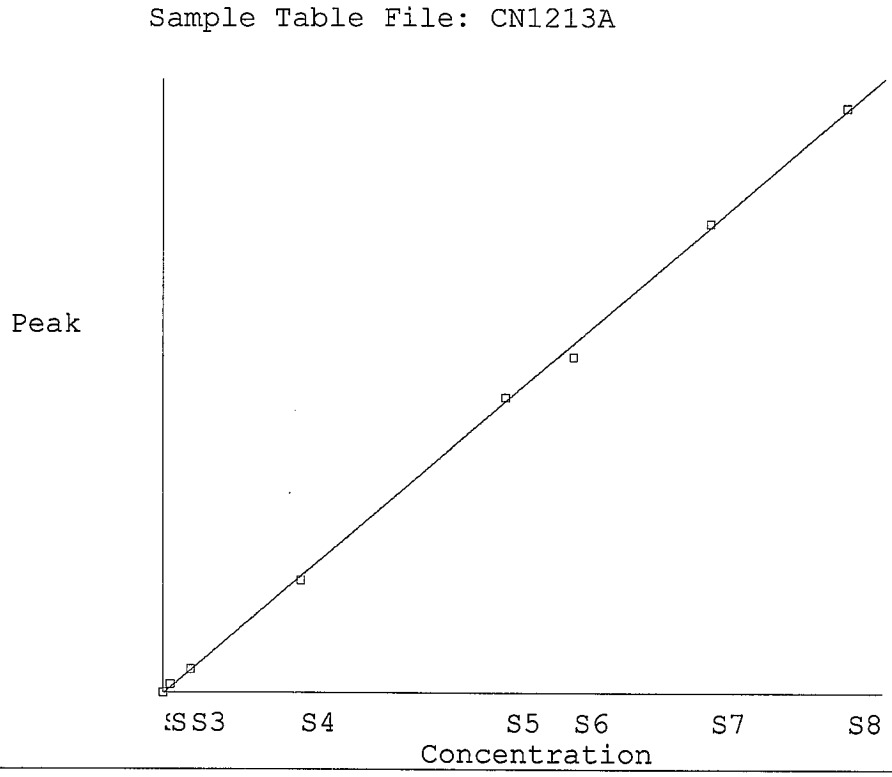
Report Date: 12/15/06
Analysis Date: 12/13/06
Data File: CN1213A
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

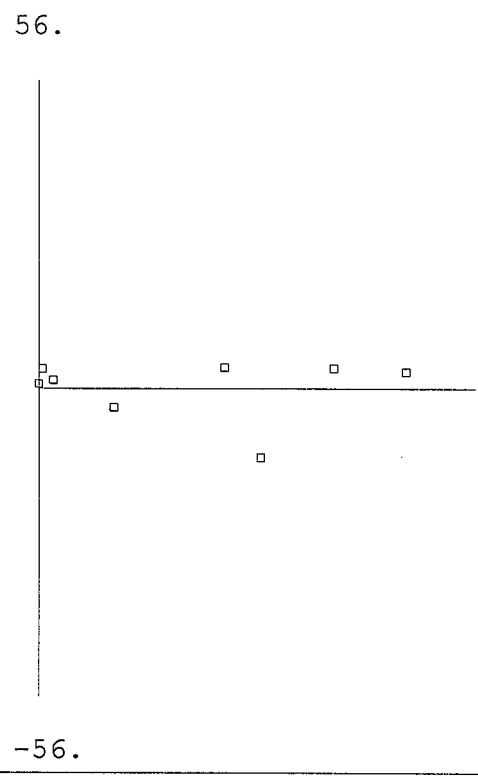
R^2: 0.999325
Corr: 0.999662
Std. Dev.: 5.438048

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
181	F6K300131-001			8.73		17:58:06
182	F6K300131-002			0.41	-RI	17:59:21
183	F6K300131-003			3.07	I	18:00:36
184	F6K300131-004			0.13	-RI	18:01:51
185	F6K300131-005			2.34	I	18:03:06
186	F6L010316-001	6346094		0.52	-RI	18:04:21
187	F6L010316-002			0.72	-RI	18:05:36
188	F6L010316-003			0.24	-RI	18:06:51
189	F6L010316-004			0.00	-zRI	18:08:06
190	F6L010316-005			0.00	-zRI	18:09:21
191	CCV			254.68	/250 102%	18:10:36
192	CCB			1.70	<5 I	18:11:51
193	F6L010316-006			0.55	-RI	18:13:06
194	F6K290125-010X	6346093		0.30	-RI	18:14:21
195	F6K290125-010S			27.18		18:15:37
196	CCV			239.29	/250 96%	18:16:52
197	CCB			1.56	<5 I	18:18:07
198	BLK			453.39		18:19:23
199	BLK			2.40	I	18:20:38

12/15/00 10:45 Standard Set #1:

Data File: CN1213A
Method File: CYANIDE
Sample Table File: CN1213A





S#	Peak	Value	Calc	Residual
S1	-0.01	0.00	0.73	0.73
S2	0.79	5.00	8.10	3.10
S3	2.23	20.00	21.30	1.30
S4	10.46	100.00	96.85	-3.15
S5	27.50	250.00	253.34	3.34
S6	31.36	300.00	288.75	-11.25
S7	43.83	400.00	403.31	3.31
S8	54.65	500.00	502.62	2.62

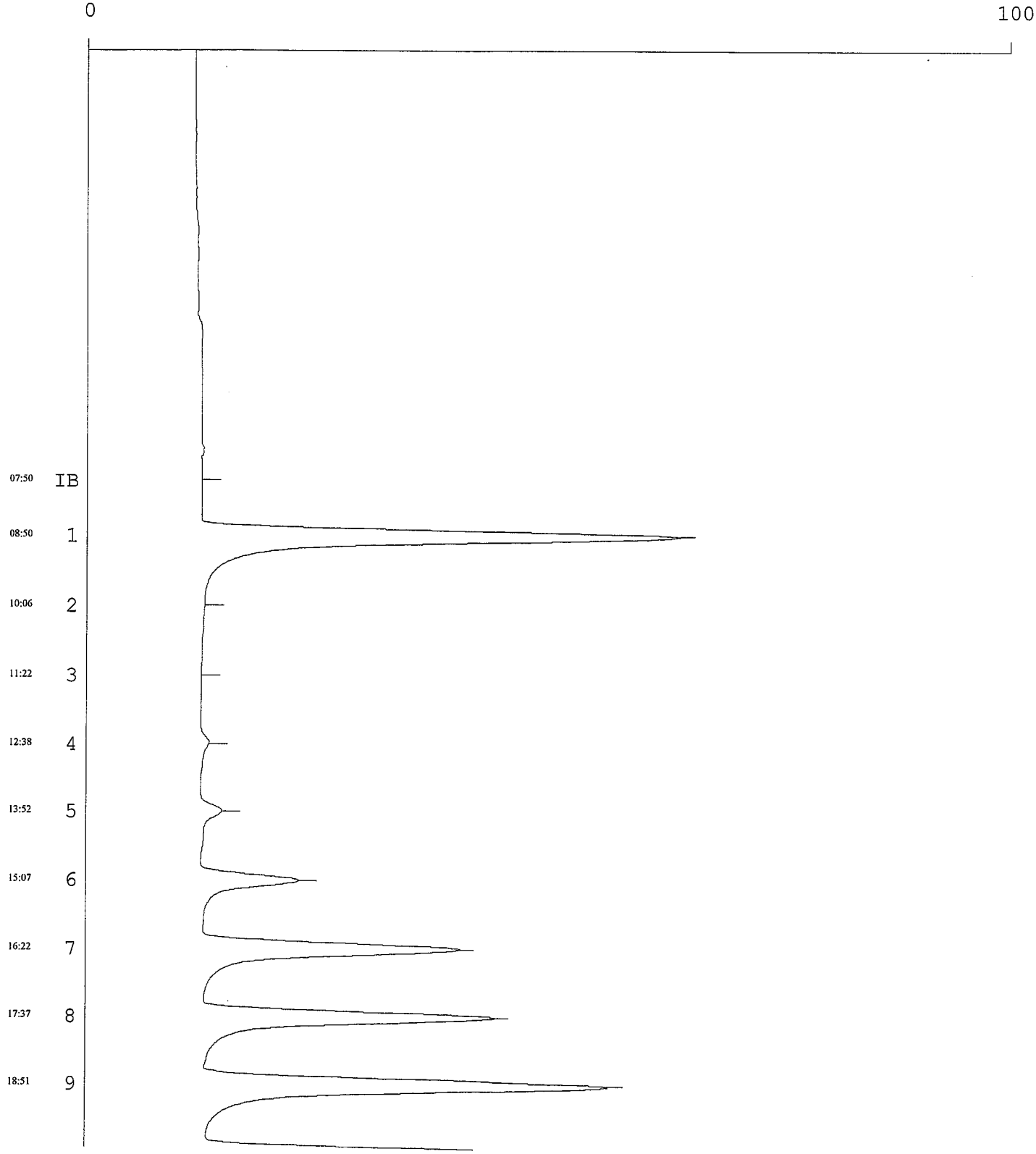
Coefficients:

Intercept :	0.80651
Slope :	9.18299
Std Dev :	5.43805
Corr Coef :	0.999662
R^2 :	0.999325

12/15/2006 16:45

Page:1

Data: CN1213A
Mthd: CYANIDE
Samp: CN1213A



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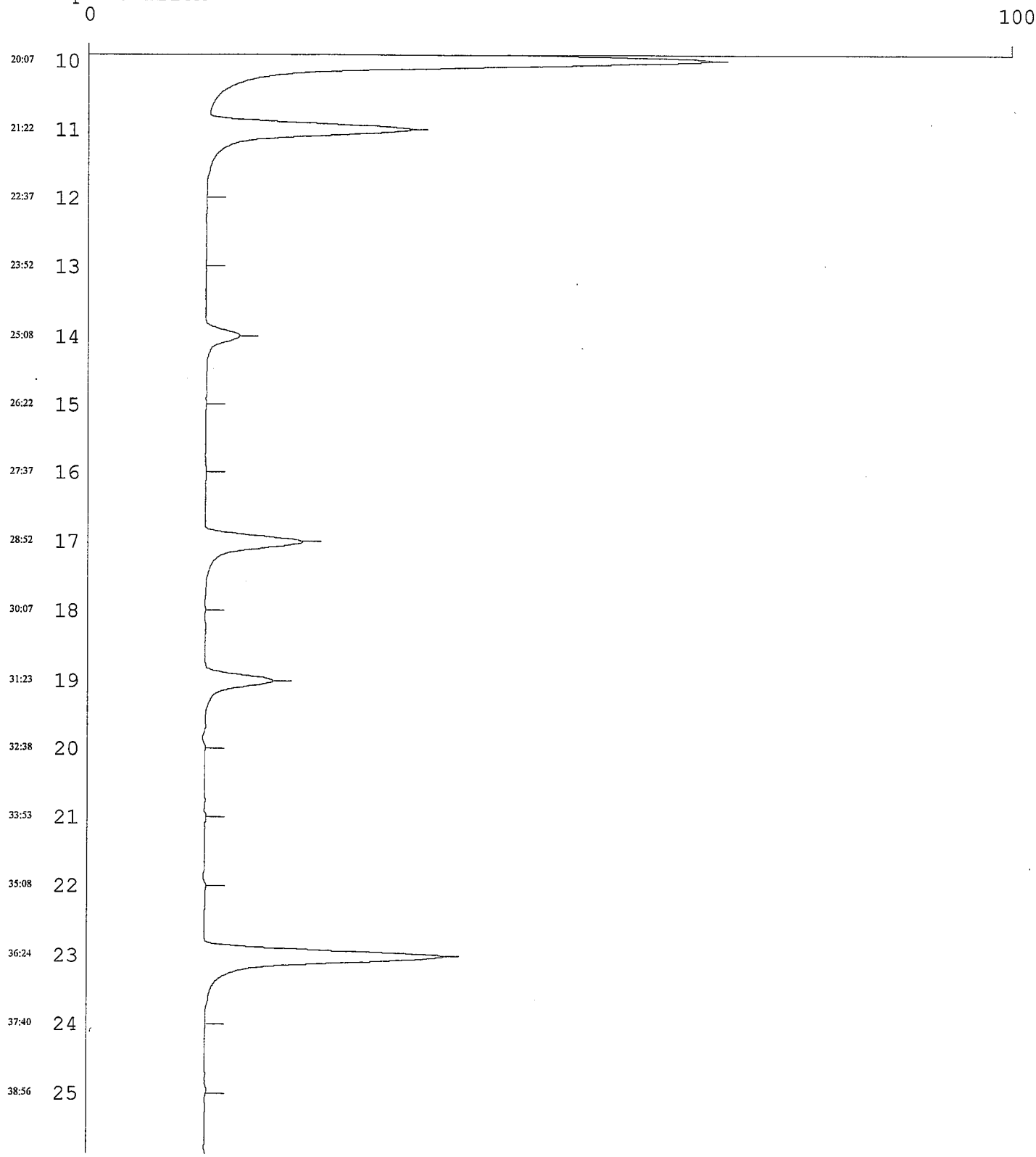

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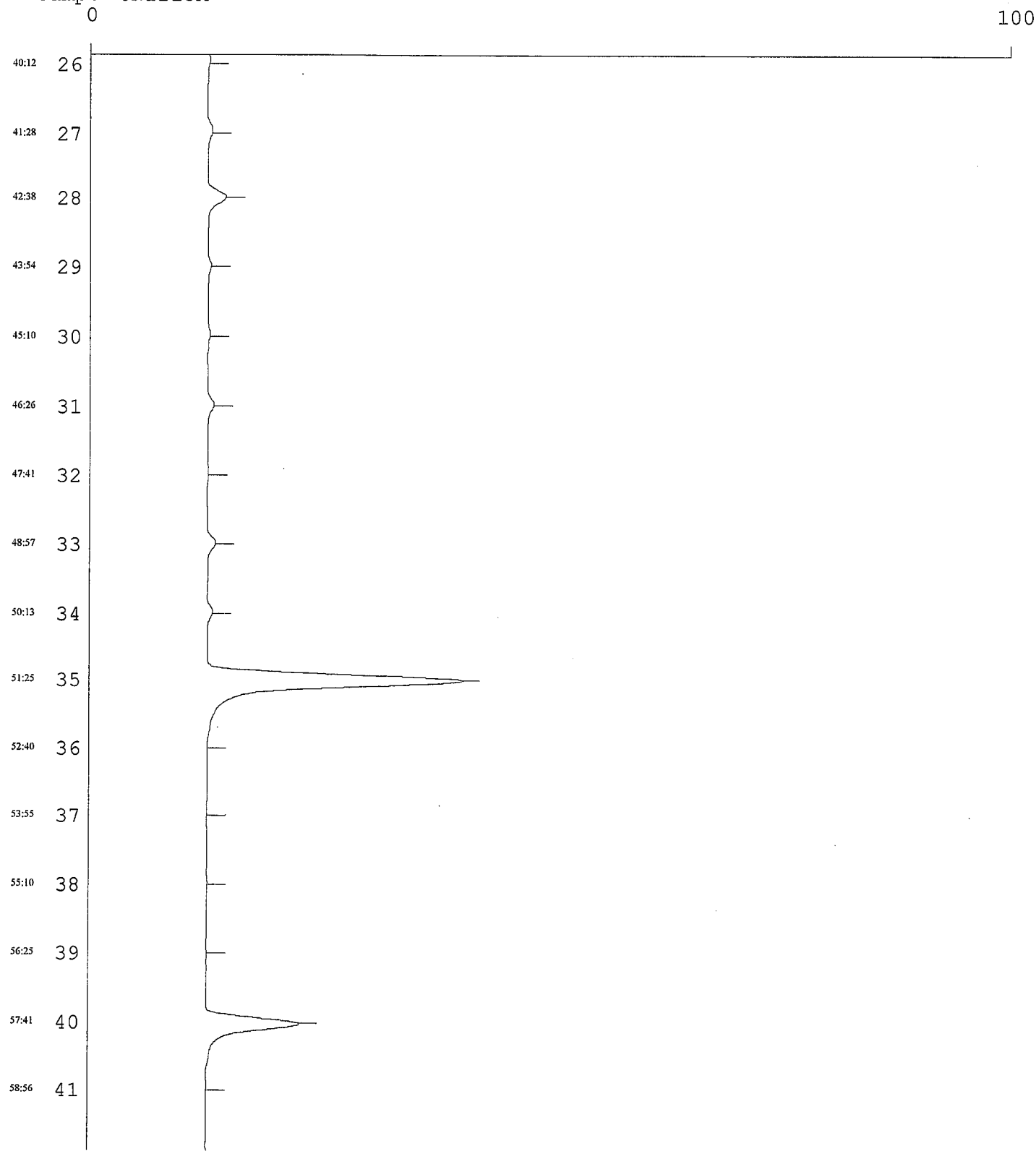
Samp: CN1213A



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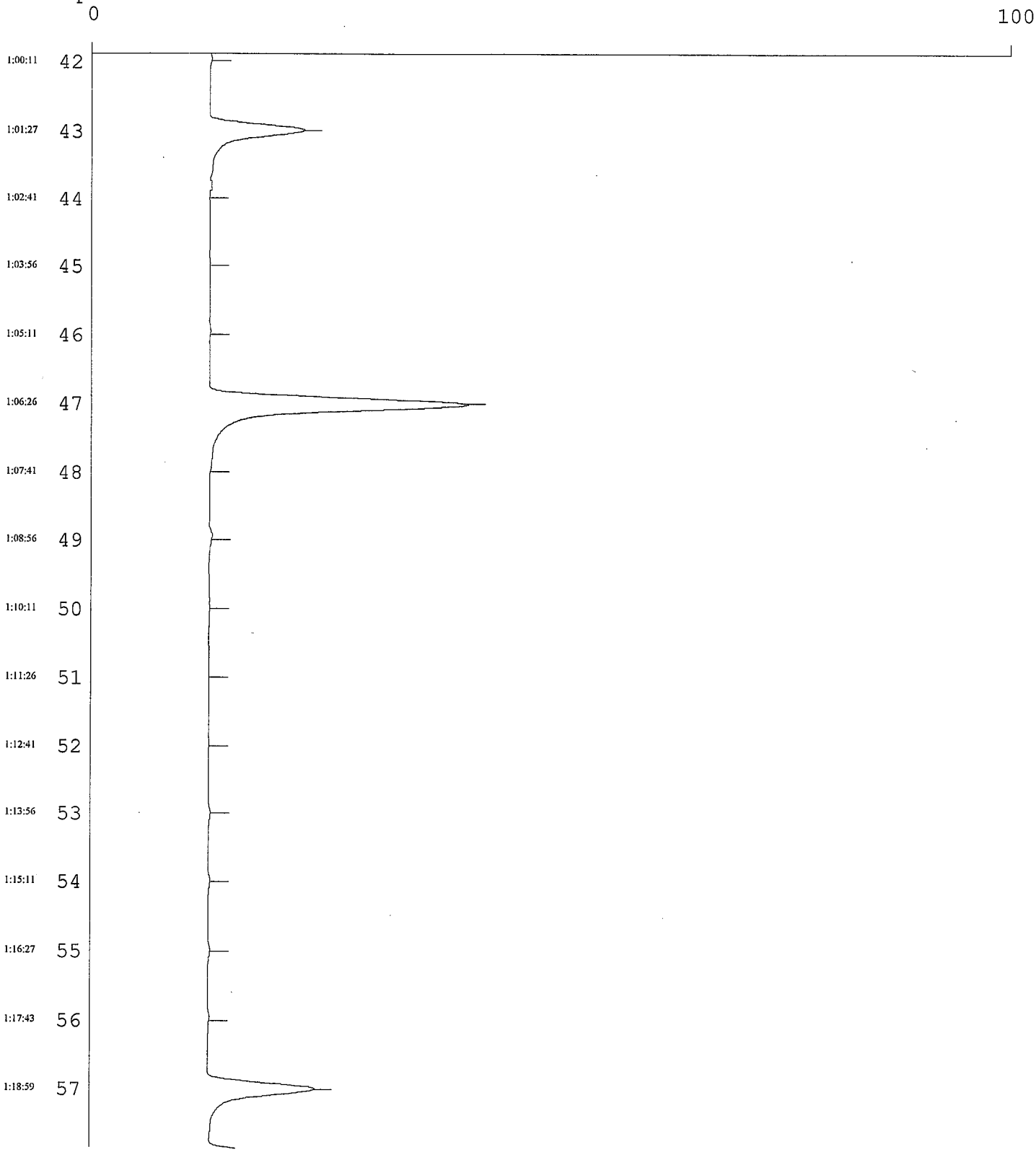
Samp: CN1213A



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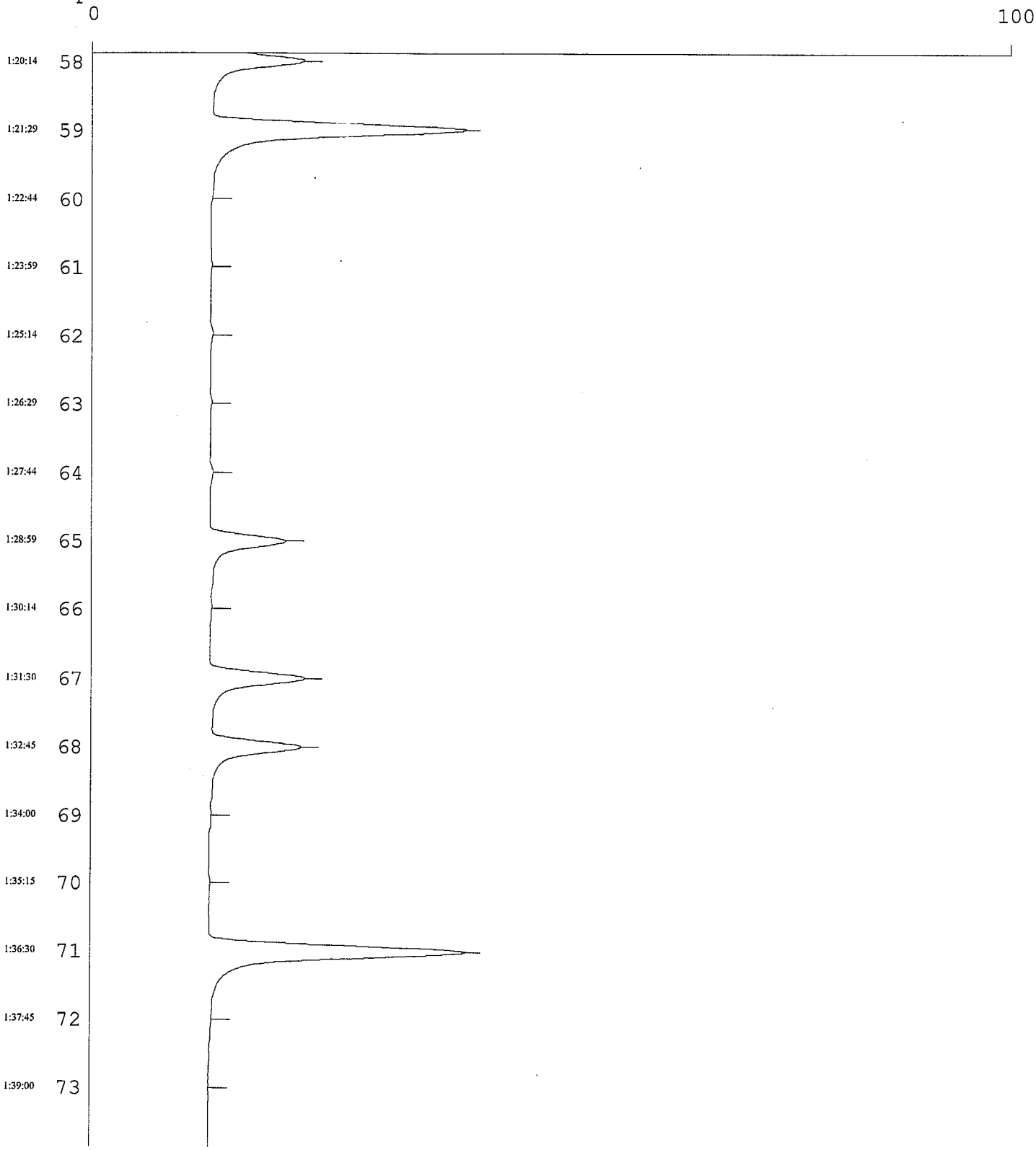
Mthd: CYANIDE
Samp: CN1213A



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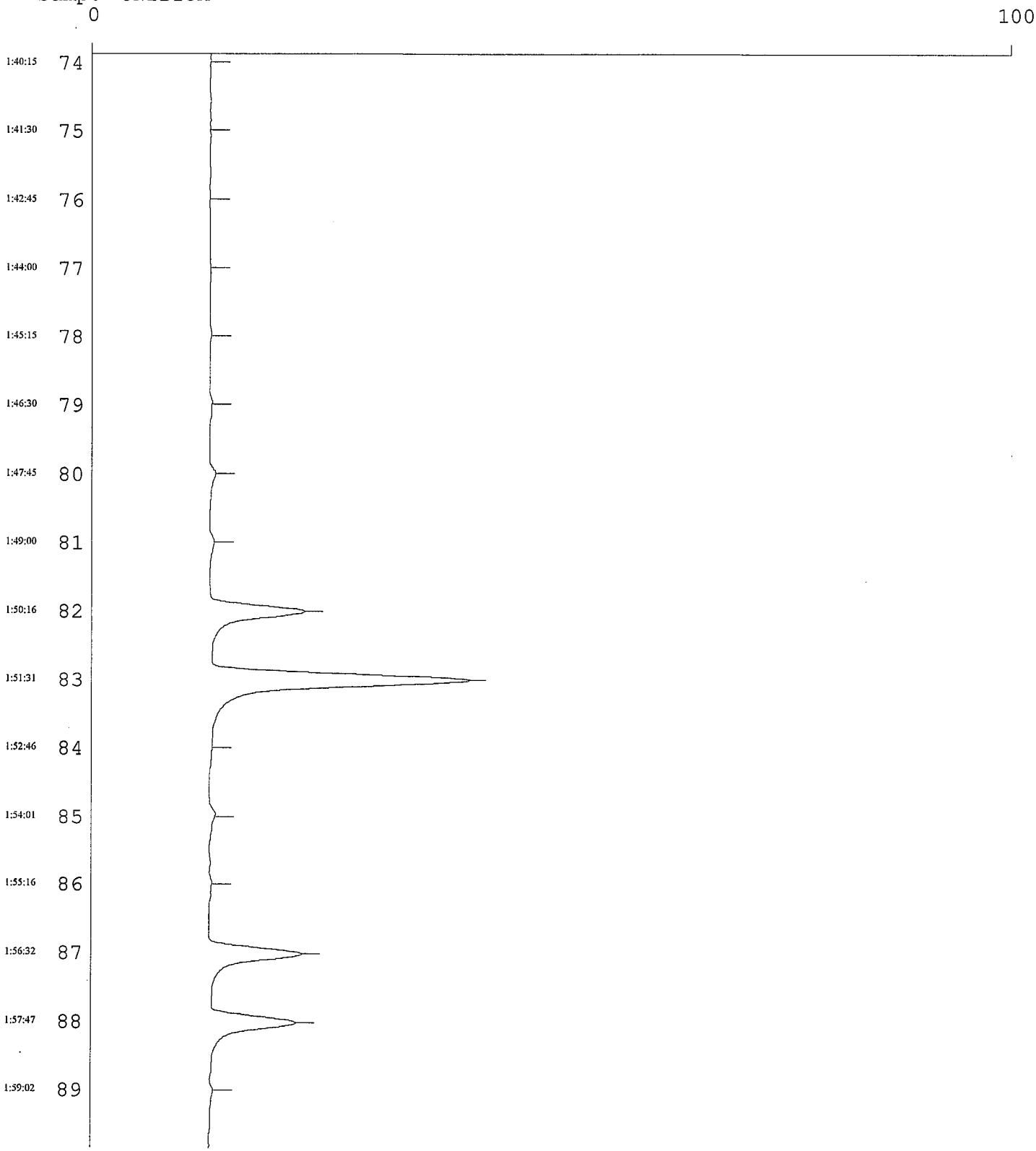
Mthd: CYANIDE
Samp: CN1213A



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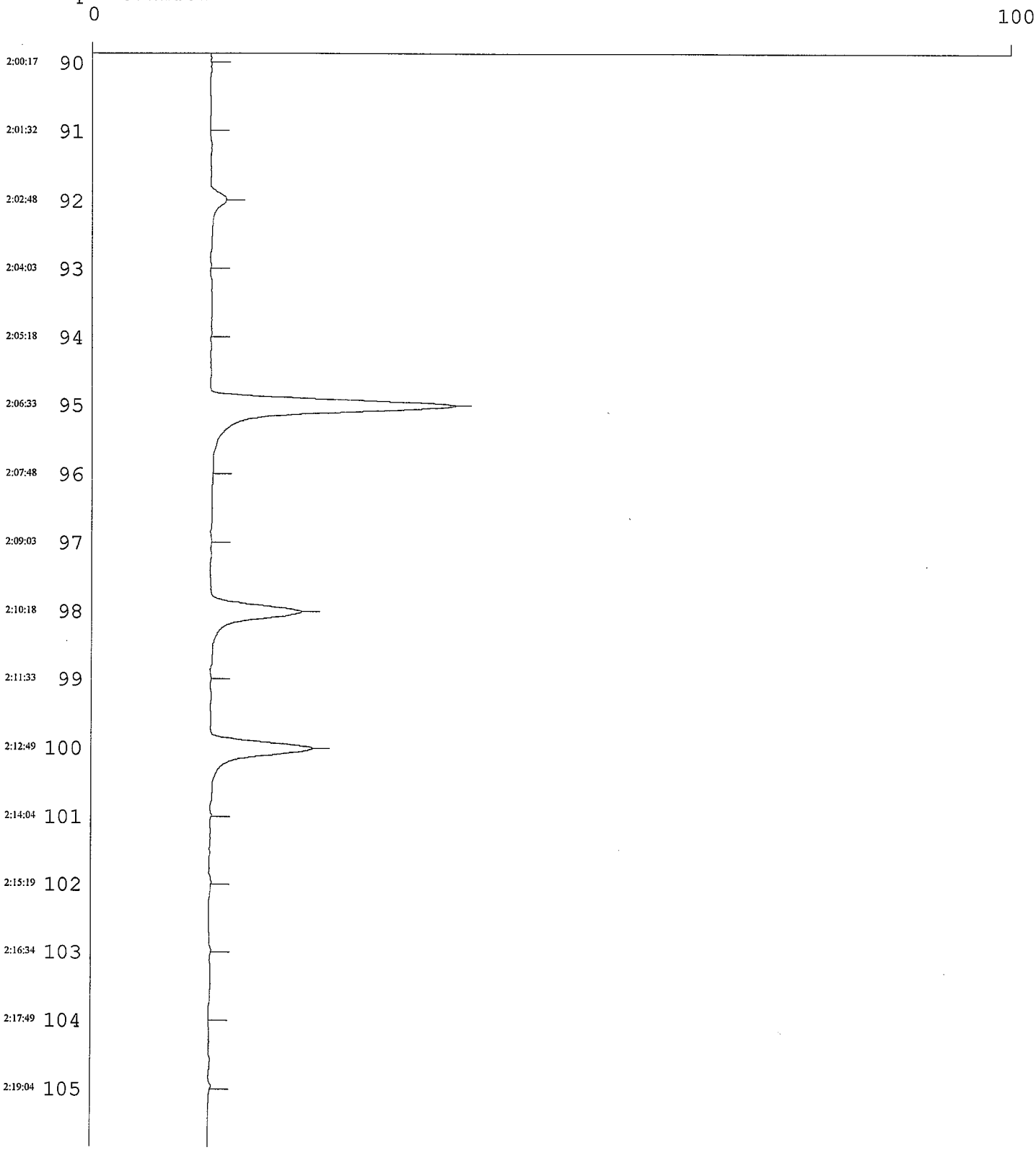
Mthd: CYANIDE
Samp: CN1213A



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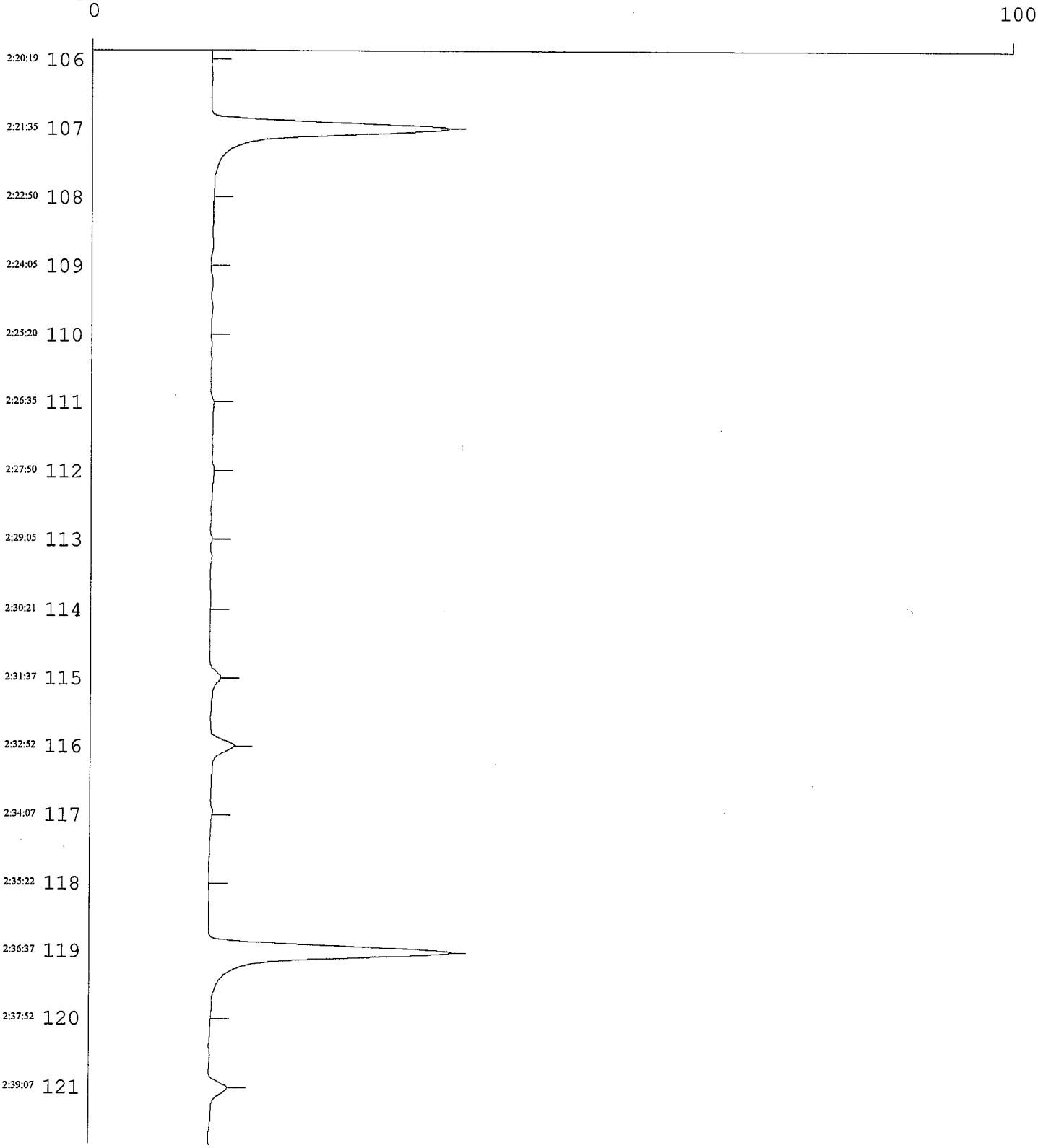

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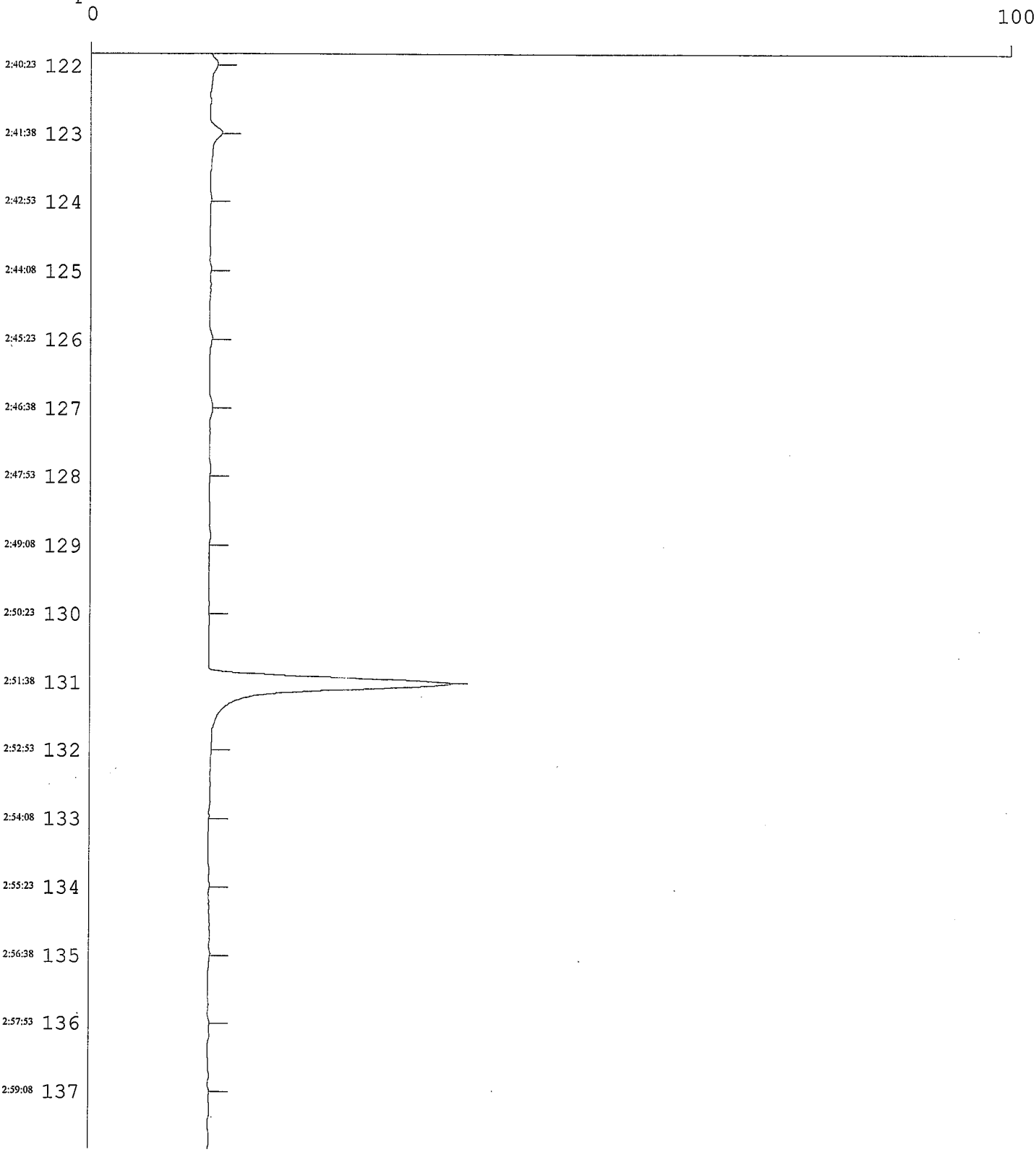

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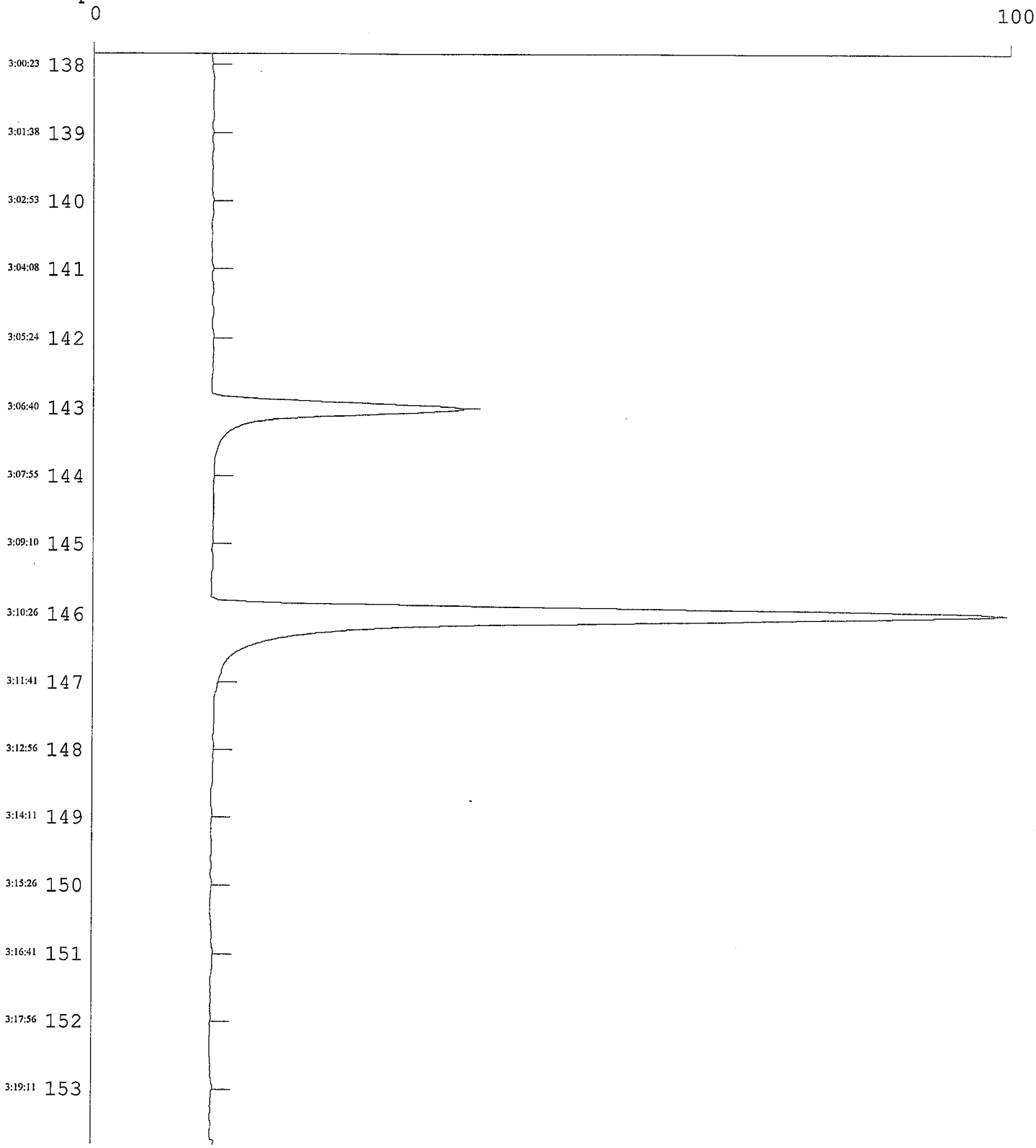

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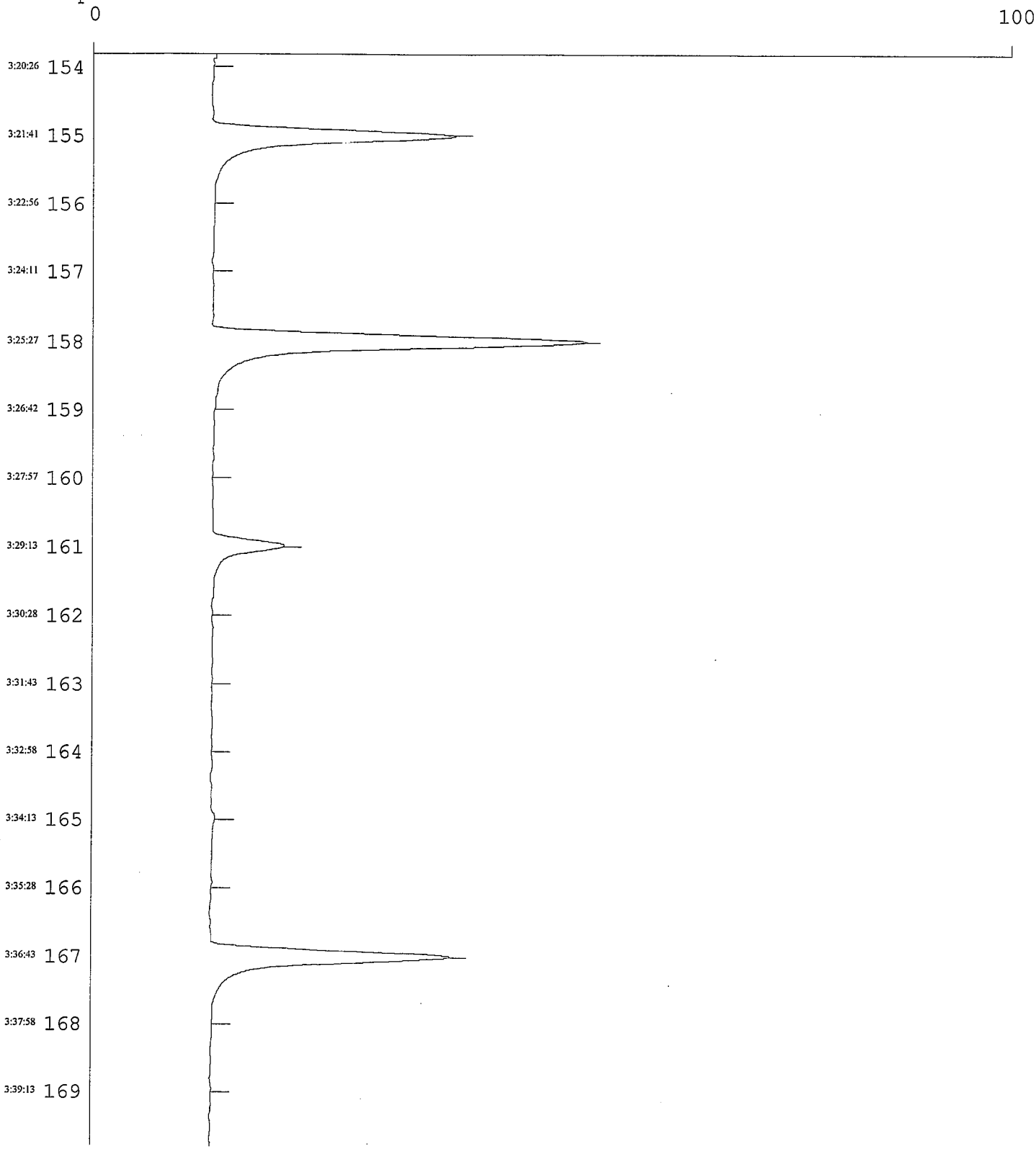
Mthd: CYANIDE
Samp: CN1213A



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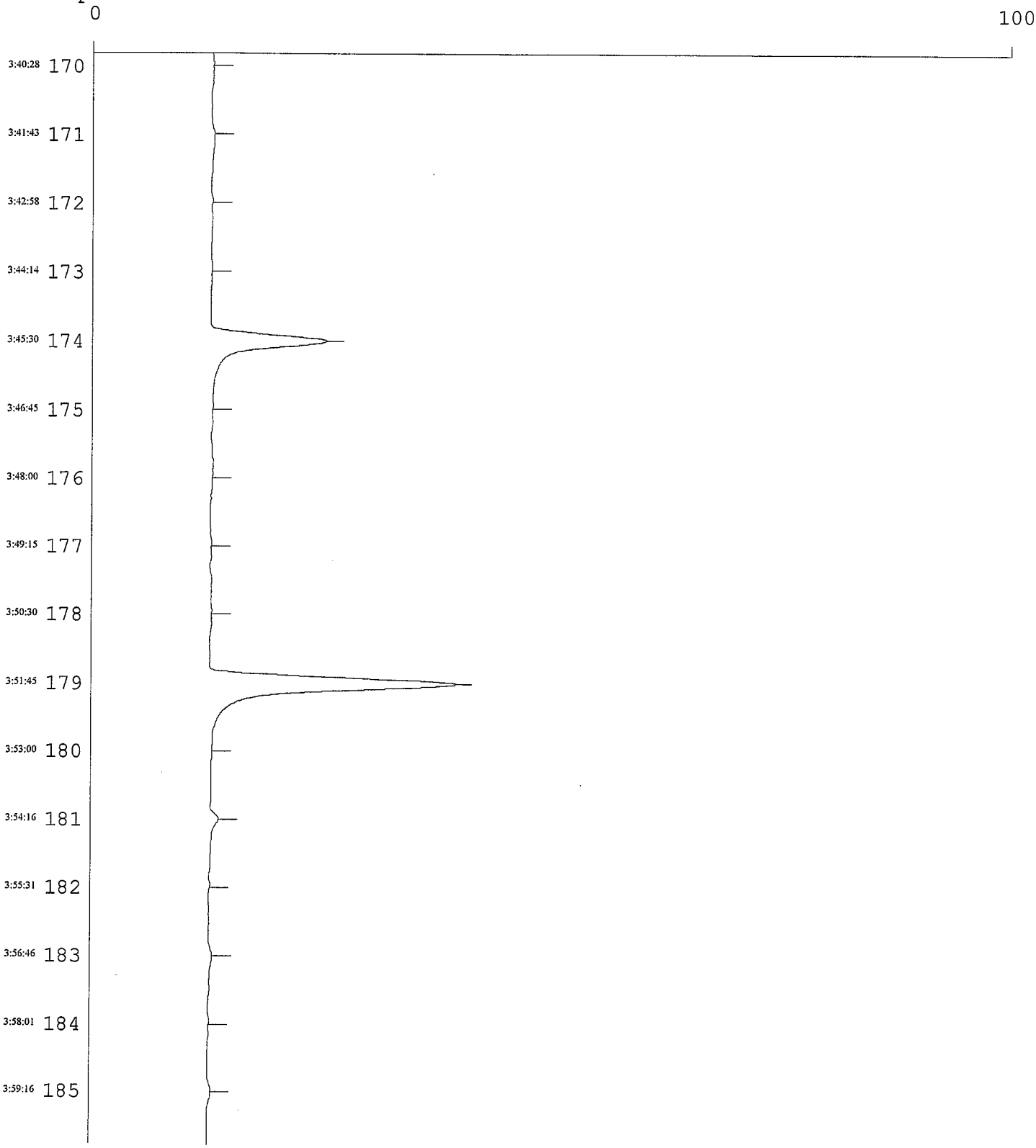
Data: CN1213A
Mthd: CYANIDE
Samp: CN1213A



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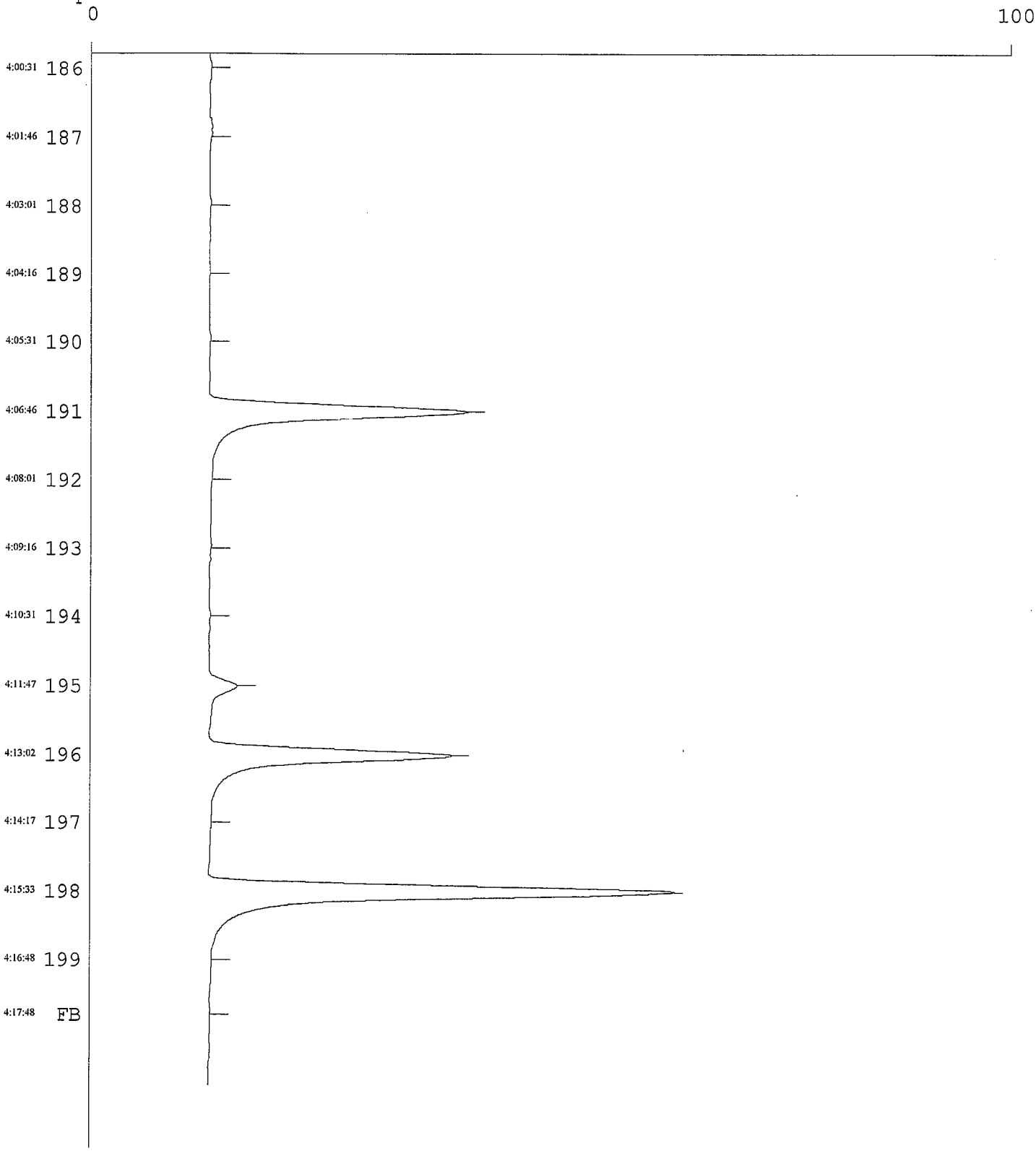
Mthd: CYANIDE
Samp: CN1213A



TRENT STL

Data Review Check List

Wet Chemistry

Due Dates: Earliest: Latest:	**Run Date:** 01-10-07
Method Name/#: CN 335.1, 335.2, 335.4, 9010B, 9012A, 4500	
Batch #: 6333327, 6333274, 6338185, 6338198	
Lot #s: F6K160199, F6K170247, F6K180200, F6K210226 RR BLA 1/23/07	
NCM's: 06-0088111, 06-0088117	

Review Item	Yes	No	N/A	Review
Initial Calibration				
Initial Calibration data in this package?	X			✓
If not, please specify initial calibration date:				
Initial Calibration meets method acceptance criteria:	X			✓
Corr. Coefficient = 0.995; Y-intercept < the absolute value of the RL				
Is the low level standard = the reporting limit?	X			✓
Calibration Check (ICV)				
ICV performed with initial calibration?	X			✓
ICV meets method acceptance criteria (max. 10% D)?	X			✓
Continuing Calibration Verification (CCV)				
CCV performed at the prescribed frequency?	X			✓
CCV meets method acceptance criteria (max. 10% D)?	X			✓
Continuing Calibration Blank (CCB)				
CCB performed after every CCV?	X			✓
CCB meets method acceptance criteria?	X			✓
Criteria: < the absolute value of the Reporting Limit (see client sheet for				
Batch QC - Method Blanks				
Is a Method Blank required for this analysis?	X			✓
Is the method blank below the Reporting Limit for targets of interest?	X			✓
Batch QC - LCS				
Is a LCS required for this analysis?	X			✓
Are the LCS (LCSD) recoveries within method acceptance?		X		✓
Batch QC - MS/MSD				
Is a MS/MSD or MS/Sample Duplicate required for this analysis?	X			✓
Are the MS(MSD) recoveries within method acceptance?		X		✓
Batch QC - RPD				
MS/MSD or Sample/Sample Duplicate RPD within acceptance criteria	X			✓
Sample Results - Report				
Are samples bracketed by acceptable CCV/CCB?	X			✓
Are results within the calibration range?	X			✓
Was analysis performed within Hold Time?	X			✓
Did samples require dilution due to: (check one if applicable)		X		✓
matrix interference high target analyte concentration				
If dilutions were performed, was it within Hold Time?			X	
If dilutions were performed, are the undiluted runs in this submission?			X	
If not, please indicate where found:				
Sample Results - Misc. information				
Are Batch sheets, Preparation Logs (if applicable) included?	X			✓
Are copies of run logs included, initialed and dated?	X			✓
Were manual calculations performed? reviewer must check calculations		X		✓
Were manual integrations performed, dated, and initialed?		X		✓
Client requirement sheets followed in data package?	X			✓
Reagents and Standards documented on prep/batch sheets?	X			✓

Additional Comments:

Analyst/Date: 01-22-07 **Reviewer/Date:** 1/22/07

RQC050 Severn Trent Laboratories, Inc. Run Date: 1/16/07
WET CHEM BATCHSHEET Time: 15:32:52

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6333327** INITIALS: DATA ENTRY:
PREP DATE: 1/11/07 PREP _____ INITIALS _____
COMP DATE: 1/11/07 ANAL _____ DATE _____
USER: THOMASD

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJT9F-1-CL	F-6K160199-016	XX A 06 QP 01	Y-D		SA21-30
JJ0TH-1-CE	F-6K170247-002	XX A 06 QP 01	Y-D		SA22-10
JJ0TN-1-CK	F-6K170247-003	XX A 06 QP 01	Y-D		SA22-20
JJ0TV-1-CE	F-6K170247-004	XX A 06 QP 01	Y-D		SA20-0.5
JJ0TV-1-FN	F-6K170247-004-D	XX A 06 QP 01	Y-D		SA20-0.5
JJ0TV-1-FM	F-6K170247-004-S	XX A 06 QP 01	Y-D		SA20-0.5
JJ0V5-1-CK	F-6K170247-005	XX A 06 QP 01	Y-D		SA20-0.5D
JJ0WG-1-CN	F-6K170247-006	XX A 06 QP 01	Y-D		SA20-10
JJ0WP-1-CP	F-6K170247-007	XX A 06 QP 01	Y-D		SA20-20
JJ0WQ-1-CQ	F-6K170247-008	XX A 06 QP 01	Y-D		SA20-25
JJ0W3-1-CK	F-6K170247-009	XX A 06 QP 01	Y-D		SA19-0.5
JJ0XF-1-CN	F-6K170247-010	XX A 06 QP 01	Y-D		SA19-10
JJ0X2-1-CP	F-6K170247-011	XX A 06 QP 01	Y-D		SA19-20
JJ0X5-1-CQ	F-6K170247-012	XX A 06 QP 01	Y-D		SA19-25
JJ0X5-1-FW	F-6K170247-012-D	XX A 06 QP 01	Y-D		SA19-25
JJ0X5-1-FV	F-6K170247-012-S	XX A 06 QP 01	Y-D		SA19-25
JKG3J-1-AA	F-6K290000-327-B	XX A 06 QP 01			INTRA-LAB BLANK
JKG3J-1-AD	F-6K290000-327-C	XX A 06 QP 01			INTRA-LAB CHECK

RQC050 Severn Trent Laboratories, Inc. Run Date: 1/16/07
WET CHEM BATCHSHEET Time: 15:32:52

STL St. Louis

QC BATCH #: **6333327** INITIALS: DATA ENTRY:
PREP DATE: 1/11/07 PREP _____ INITIALS _____
COMP DATE: 1/11/07 ANAL _____ DATE _____
USER: THOMASD

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:	Control Limits
JKG3J-1-AC	F-6K290000-327-C	XX A 06 QP 01		_____	INTRA-LAB CHECK	(90-110)
						(90-110)
						(90-110)
						(90-110)
						(90-110)
						(90-110)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch 6333327

Date 1/16/2007
Time 16:37:47

Method Code: Cyanide, Total
Analyst: Debbie Thomas

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JJT9F-1-CL	ND	mg/kg	0.5	01/11-01/15/07	89.45	N		ND	0.56	1.00
JJ0TH-1-CE	ND	mg/kg	0.5	01/11-01/15/07	90.27	N		ND	0.55	1.00
JJ0TN-1-CK	ND	mg/kg	0.5	01/11-01/15/07	85.73	N		ND	0.58	1.00
JJ0TV-1-CE	ND	mg/kg	0.5	01/11-01/15/07	89.86	N		ND	0.56	1.00
JJ0V5-1-CK	ND	mg/kg	0.5	01/11-01/15/07	80.50	N		ND	0.62	1.00
JJ0WG-1-CN	ND	mg/kg	0.5	01/11-01/15/07	84.21	N		ND	0.59	1.00
JJ0WP-1-CP	1.2275	mg/kg	0.5	01/11-01/15/07	94.77	N		1.3	0.53	1.00
JJ0WQ-1-CQ	ND	mg/kg	0.5	01/11-01/15/07	84.53	N		ND	0.59	1.00
JJ0W3-1-CK	ND	mg/kg	0.5	01/11-01/15/07	90.59	N		ND	0.55	1.00
JJ0XF-1-CN	ND	mg/kg	0.5	01/11-01/15/07	91.48	N		ND	0.55	1.00
JJ0X2-1-CP	ND	mg/kg	0.5	01/11-01/15/07	91.22	N		ND	0.55	1.00
JJ0X5-1-CQ	ND	mg/kg	0.5	01/11-01/15/07	86.06	N		ND	0.58	1.00
JKG3J-1-AA	ND	mg/kg	0.5	01/11-01/15/07	.00			ND	0.50	1.00

Notes:
Results and reporting limits have been adjusted for dry weight.

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JKG3J-1-AD		20.0	17.856 N	89.28	01/11-01/15/07	(90-110)	1.00
JKG3J-1-AC		5.0	5.081	101.62	01/11-01/15/07	(90-110)	1.00

Notes:
N Spiked analyte recovery is outside stated control limits.

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Dil
JJ0TV-1-FM		ND	5	4.812	4.9285	96.24	98.57	2.39	01/11-01/15/07	
JJ0X5-1-FV		ND	5	2.7035 N	3.367	54.07	67.34	21.86	01/11-01/15/07	

Notes:
Results and reporting limits have been adjusted for dry weight.
N Spiked analyte recovery is outside stated control limits.

1/16/07

STL St. Louis Laboratory
Cyanide Method 335.4/9012B

Analyst: CH, JB, DNT

Prep Date: 1/11/2007

Batch No.: 6333327

Analysis Filename: CN01157

Analysis Date: 1/15/2007

Laboratory ID	Standard Conc. ug/L	Raw Value ug/L	Dilution	Sample Volume Liter (Nom. 0.050L)	Sample Volume Gram (Nom. 1 g)	Scrubber Volume, L (Nom. 0.05L)	Combined Prep Factor	Final Concentration as CN ug/L	Final Concentration as CN mg/Kg *	Percent Recovery	RPD
BLK		1.57	1		1	0.05	0.05		0.0785		
LCS	100	101.62	1		1	0.05	0.05		5.081		
HCS	400	357.12	1		1	0.05	0.05		17.856		
JJT9F		2.95	1		1	0.05	0.05		0.1475		
JJ0TH		0.39	1		1	0.05	0.05		0.0195		
JJ0TN		0.62	1		1	0.05	0.05		0.031		
JJ0TV		3.64	1		1	0.05	0.05		0.182		
JJ0TV D		98.57	1		1	0.05	0.05		4.9285		
JJ0TV S		96.24	1		1	0.05	0.05		4.812		
JJ0V5		3.16	1		1	0.05	0.05		0.158		
JJ0WG		3.84	1		1	0.05	0.05		0.192		
JJ0WP		24.55	1		1	0.05	0.05		1.2275		
JJ0WQ		2.67	1		1	0.05	0.05		0.1335		
JJ0W3		2.67	1		1	0.05	0.05		0.1335		
JJ0XF		0	1		1	0.05	0.05		0		
JJ0X2		0.33	1		1	0.05	0.05		0.0165		
JJ0X5		2.89	1		1	0.05	0.05		0.1445		
JJ0X5 D		67.34	1		1	0.05	0.05		3.367		
JJ0X5 S		54.07	1		1	0.05	0.05		2.7035		
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				

Control Limits (Water/Soil): LCS = 90 - 110; RPD 20%

Control Limits (Water/Soil): MS = 90 - 110; RPD (water) 20%, (soil) 30%

SOP	Rev	Date
STL-WC-0002	5	2/28/06

$$\text{Cyanide, total ug/L (mg/Kg)} = \frac{\text{Raw Value X Dilution X Scrubber Volume (L)}}{\text{Sample Volume (L,G)}}$$

 # Results are raw calcuation and do not reflect rounding, requested significant figures, or client reporting limits.

*** Results on spreadsheet are "wet weight".**

File: Slsvr01\Wet Chem Results\Cyanide, modified 10/16/06

TO TRACCS
☐ Distilled Samples
☒ Client Requirements Sheets
☒ Bar Code Sheets
☒ Quantums Batch Sheets
☒ Distillation Prep Std log

STL St. Louis Laboratory
Cyanide Distillation Log
Method 335.4/9012B

Lot #'s: F6K160199

LCS/LCSD/MS = 0.5 ml
HCS = 2.0 ml CN Intermediate QC Std

Batch #: 633327

~~Analyst~~

Analyst
Preparation Date: CH, JB 01-11-07

☒ Soil
☐ Water

Distillation Time: 60

Sequence Number	Laboratory ID	Soil = 1g, Water = 50ml: Sample Weight ~~(ml) (Nominally 50 ml)~~	NaOH Scrubber Volume (Nominally 50ml)	pH check ~~Spike volume added (ml)~~	Sulfide Interference (Lead Acetate) checked	Nitrate or Nitrite Interference (Sulfamic acid) checked	Comments (Note any interfence treatment)
#1	BLK	1g	50ml	NA	NA	NA	
#2	LCS	↓	↓	↓	↓	↓	
#3	HCS						
#4	JJT9F						
#5	JJ0TH						
#6	JJ0TN						
#7	JJ0TV						
#8	JJ0TV-S						
#9	JJ0TV-D						
#10	JJ0V5						
#11	JJ0W7G						
#12	JJ0WP						
#13	JJ0WQ						
#14	JJ0W3						
#15	JJ0XF						
#16	JJ0XZ						
#17	JJ0X5						
#18	JJ0X5-S						
~~#20~~ 19	JJ0X5-D	↓	↓	↓	↓	↓	
~~#21~~ 20							
~~#22~~ 21							
~~#23~~ 22							

Flow Rate = approx. 2 bubbles/second

Distillation time criteria: 60 min. minimum

SOP	Rev	Date
STL-IP-0005	7	1/18/2006

File: [illegible]

RQC050 Severn Trent Laboratories, Inc. Run Date: 1/16/07
WET CHEM BATCHSHEET Time: 15:31:20

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6333274** INITIALS: DATA ENTRY:
PREP DATE: 1/10/07 PREP _____ INITIALS _____
COMP DATE: 1/10/07 ANAL _____ DATE _____
USER: THOMASD

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJT4R-1-CW	F-6K160199-002	XX A 06 QP 01	Y-D		SA17-0.5
JJT44-1-C2	F-6K160199-003	XX A 06 QP 01	Y-D		SA17-0.5D
JJT47-1-CD	F-6K160199-004	XX A 06 QP 01	Y-D		SA17-10
JJT5C-1-CG	F-6K160199-005	XX A 06 QP 01	Y-D		SA17-20
JJT5K-1-CH	F-6K160199-006	XX A 06 QP 01	Y-D		SA17-25
JJT5Q-1-CJ	F-6K160199-007	XX A 06 QP 01	Y-D		SA18-0.5
JJT55-1-CM	F-6K160199-008	XX A 06 QP 01	Y-D		SA18-0.5D
JJT58-1-CQ	F-6K160199-009	XX A 06 QP 01	Y-D		SA18-10
JJT66-1-CR	F-6K160199-010	XX A 06 QP 01	Y-D		SA18-20
JJT7F-1-CT	F-6K160199-011	XX A 06 QP 01	Y-D		SA18-30
JJT7Q-1-C2	F-6K160199-012	XX A 06 QP 01	Y-D		SA21-0.5
JJT8N-1-CD	F-6K160199-013	XX A 06 QP 01	Y-D		SA21-10
JJT87-1-CJ	F-6K160199-014	XX A 06 QP 01	Y-D		SA21-20
JJT9D-1-CK	F-6K160199-015	XX A 06 QP 01	Y-D		SA21-20D
JJ0QP-1-C3	F-6K170247-001	XX A 06 QP 01	Y-D		SA22-0.5
JJ0QP-1-E9	F-6K170247-001-D	XX A 06 QP 01	Y-D		SA22-0.5
JJ0QP-1-E8	F-6K170247-001-S	XX A 06 QP 01	Y-D		SA22-0.5
JKGRK-1-AA	F-6K290000-274-B	XX A 06 QP 01			INTRA-LAB BLANK

RQC050 Severn Trent Laboratories, Inc. Run Date: 1/16/07
WET CHEM BATCHSHEET Time: 15:31:20

STL St. Louis

QC BATCH #: **6333274** INITIALS: DATA ENTRY:
PREP DATE: 1/10/07 PREP _____ INITIALS _____
COMP DATE: 1/10/07 ANAL _____ DATE _____
USER: THOMASD

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:	Control Limits
JKGRK-1-AD	F-6K290000-274-C	XX A 06 QP 01		_____	INTRA-LAB CHECK	(90-110)
JKGRK-1-AC	F-6K290000-274-C	XX A 06 QP 01		_____	INTRA-LAB CHECK	(90-110)
						(90-110)
						(90-110)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch 6333274

Date 1/16/2007
Time 16:34:47

Method Code: Cyanide, Total
Analyst: Debbie Thomas

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JJT4R-1-CW	ND	mg/kg	0.5	01/10-01/15/07	85.33	N		ND	0.59	1.00
JJT44-1-C2	ND	mg/kg	0.5	01/10-01/15/07	86.55	N		ND	0.58	1.00
JJT47-1-CD	ND	mg/kg	0.5	01/10-01/15/07	87.91	N		ND	0.57	1.00
JJT5C-1-CG	ND	mg/kg	0.5	01/10-01/15/07	94.25	N		ND	0.53	1.00
JJT5K-1-CH	ND	mg/kg	0.5	01/10-01/15/07	80.97	N		ND	0.62	1.00
JJT5Q-1-CJ	ND	mg/kg	0.5	01/10-01/15/07	91.71	N		ND	0.55	1.00
JJT55-1-CM	ND	mg/kg	0.5	01/10-01/15/07	95.14	N		ND	0.53	1.00
JJT58-1-CQ	ND	mg/kg	0.5	01/10-01/15/07	92.16	N		ND	0.54	1.00
JJT66-1-CR	ND	mg/kg	0.5	01/10-01/15/07	93.04	N		ND	0.54	1.00
JJT7F-1-CT	ND	mg/kg	0.5	01/10-01/15/07	90.88	N		ND	0.55	1.00
JJT7Q-1-C2	ND	mg/kg	0.5	01/10-01/15/07	95.68	N		ND	0.52	1.00
JJT8N-1-CD	ND	mg/kg	0.5	01/10-01/15/07	90.86	N		ND	0.55	1.00
JJT87-1-CJ	ND	mg/kg	0.5	01/10-01/15/07	90.46	N		ND	0.55	1.00
JJT9D-1-CK	ND	mg/kg	0.5	01/10-01/15/07	95.80	N		ND	0.52	1.00
JJ0QP-1-C3	ND	mg/kg	0.5	01/10-01/15/07	78.87	N		ND	0.63	1.00
JKGRK-1-AA	ND ✓	mg/kg	0.5	01/10-01/15/07	.00			ND	0.50	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered		Prep. - Anal.	Control Limits	Dil.
JKGRK-1-AD		20.0	17.967	89.83	✓	01/10-01/15/07	(90-110)	1.00
JKGRK-1-AC		5.0	4.2735 N	85.47	✓	01/10-01/15/07	(90-110)	1.00

Notes:
N Spiked analyte recovery is outside stated control limits.

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.		Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Dil
JJ0QP-1-E8		ND	5	5.06	3.99	✓	101.20	79.80	23.64	01/10-01/15/07	

Notes:

01-16-07

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6333274**

Date 1/16/2007
Time 16:34:47

Method Code: **Cyanide, Total**
Analyst:**Debbie Thomas**
Notes:
Results and reporting limits have been adjusted for dry weight.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

STL St. Louis Laboratory
Cyanide Method 335.4/9012B

Analyst: CH, JB, DNT

Prep Date: 1/12/2007 10 EE 01-16-07

Batch No.: 6333274

Analysis Filename: CN01157

Analysis Date: 1/15/2007

Laboratory ID	Standard Conc. ug/L	Raw Value ug/L	Dilution	Sample Volume Liter (Nom. 0.050L)	Sample Volume Gram (Nom. 1 g)	Scrubber Volume, L (Nom. 0.05L)	Combined Prep Factor	Final Concentration as CN ug/L	Final Concentration as CN mg/Kg *	Percent Recovery	RPD
BLK		1.93	1		1	0.05	0.05		0.0965		
LCS	100	85.47	1		1	0.05	0.05		4.2735		
HCS	400	359.34	1		1	0.05	0.05		17.967		
JJT4R		3.08	1		1	0.05	0.05		0.154		
JJT44		1.68	1		1	0.05	0.05		0.084		
JJT47		1.91	1		1	0.05	0.05		0.0955		
JJT5C		0.74	1		1	0.05	0.05		0.037		
JJT5K		2.6	1		1	0.05	0.05		0.13		
JJT5Q		2.36	1		1	0.05	0.05		0.118		
JJT55		6.31	1		1	0.05	0.05		0.3155		
JJT58		1.41	1		1	0.05	0.05		0.0705		
JJT66		1.41	1		1	0.05	0.05		0.0705		
JJT7F		0.94	1		1	0.05	0.05		0.047		
JJT7Q		3.49	1		1	0.05	0.05		0.1745		
JJT8N		1.63	1		1	0.05	0.05		0.0815		
JJT87		2.56	1		1	0.05	0.05		0.128		
JJT9D		2.09	1		1	0.05	0.05		0.1045		
JJ0QP		4.64	1		1	0.05	0.05		0.232		
JJ0QP D		79.8	1		1	0.05	0.05		3.99		
JJ0QP S		101.2	1		1	0.05	0.05		5.06		
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				

Control Limits (Water/Soil): LCS = 90 - 110; RPD 20%

Control Limits (Water/Soil): MS = 90 - 110; RPD (water) 20%, (soil) 30%

SOP	Rev	Date
STL-WC-0002	5	2/28/06

$$\text{Cyanide, total ug/L (mg/Kg)} = \frac{\text{Raw Value X Dilution X Scrubber Volume (L)}}{\text{Sample Volume (L,G)}}$$

 # Results are raw calcuation and do not reflect rounding, requested significant figures, or client reporting limits.

*** Results on spreadsheet are "wet weight".**

File: Slsvr01\Wet Chem Results\Cyanide, modified 10/16/06

STL St. Louis Laboratory
Cyanide Distillation Log
Method 335.4/9012B

To TRACCS
- ☐ Distilled Samples
- ☒ Client Requirements Sheets
- ☒ Bar Code Sheets
- ☒ Quantums Batch Sheets
- ☒ Distillation Prep Std log

~~Analyst:~~

Analyst / Preparation Date: JB, CH, ~~D~~ 01-~~12~~ 10-07

☒ Soil ☐ Water

LCS/LCSD/MS = 0.5 ml
HCS = 2.0 ml CN Intermediate QC Std

Lot #s: F6K160199, F6K170247

Batch #: 6333274

Distillation Time: 60

Sequence Number	Laboratory ID	Soil = 1g Water = 50ml Sample Weight ~~(ml) (Nominally 50 ml)~~	NaOH Scrubber Volume (Nominally 50ml)	pH check ~~Spike volume added (ml)~~	Sulfide Interference (Lead Acetate) checked	Nitrate or Nitrite Interference (Sulfamic acid) checked	Comments (Note any interfence treatment)
#1	JJT4R	1g	50ml	NA	NA	NA	
#2	JJT44	↓	↓	↓	↓	↓	
#3	JJT47						
#4	JJT5C						
#5	JJT5K						
#6	JJT5Q						
#7	JJT55						
#8	JJT58						
#9	JJT66						
#10	JJT7F						
#11	JJT7Q						
#12	JJT8N						
#13	JJT87						
#14	JJT9D						
#15	JJ0QP						
#16	JJ0QP-S						
#17	JJ0QP-D						
#18	BLK						
~~#20~~ 19	LCS						
~~#21~~ 20	HCS	↓	↓	↓	↓	↓	
#22							
#23							

Flow Rate = approx. 2 bubbles/second

Distillation time criteria: 60 min. minimum

SOP	Rev	Date
STL-IP-0005	7	1/18/2006

RQC050 Severn Trent Laboratories, Inc. Run Date: 1/16/07
WET CHEM BATCHSHEET Time: 15:32:07

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6338198** INITIALS: DATA ENTRY:
PREP DATE: 1/12/07 PREP _____ INITIALS _____
COMP DATE: 1/12/07 ANAL _____ DATE _____
USER: THOMASD

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJ6MX-1-C0	F-6K210226-001	XX A 06 QP 01	Y-D		SA7-0.5
JJ6MX-1-E5	F-6K210226-001-D	XX A 06 QP 01	Y-D		SA7-0.5
JJ6MX-1-E4	F-6K210226-001-S	XX A 06 QP 01	Y-D		SA7-0.5
JJ6Q4-1-CA	F-6K210226-002	XX A 06 QP 01	Y-D		SA7-10
JJ6Q4-1-FJ	F-6K210226-002-D	XX A 06 QP 01	Y-D		SA7-10
JJ6Q4-1-FH	F-6K210226-002-S	XX A 06 QP 01	Y-D		SA7-10
JJ6RJ-1-CH	F-6K210226-003	XX A 06 QP 01	Y-D		SA7-10D
JJ6R1-1-CL	F-6K210226-004	XX A 06 QP 01	Y-D		SA7-20
JJ6TC-1-CP	F-6K210226-005	XX A 06 QP 01	Y-D		SA7-30
JJ8P5-1-CT	F-6K210226-006	XX A 06 QP 01	Y-D		SA7-34
JJ8QK-1-CA	F-6K210226-007	XX A 06 QP 01	Y-D		SA26-0.5
JJ8QK-1-FT	F-6K210226-007-D	XX A 06 QP 01	Y-D		SA26-0.5
JJ8QK-1-FR	F-6K210226-007-S	XX A 06 QP 01	Y-D		SA26-0.5
JJ8V6-1-CH	F-6K210226-008	XX A 06 QP 01	Y-D		SA26-0.5D
JJ8WC-1-CP	F-6K210226-009	XX A 06 QP 01	Y-D		SA26-10
JKP91-1-AA	F-6L040000-198-B	XX A 06 QP 01			INTRA-LAB BLANK
JKP91-1-AD	F-6L040000-198-C	XX A 06 QP 01			INTRA-LAB CHECK
JKP91-1-AC	F-6L040000-198-C	XX A 06 QP 01			INTRA-LAB CHECK

RQC050 Severn Trent Laboratories, Inc. Run Date: 1/16/07
WET CHEM BATCHSHEET Time: 15:32:07

STL St. Louis

QC BATCH #: **6338199** INITIALS: DATA ENTRY:
PREP DATE: 12/04/06 PREP _____ INITIALS _____
COMP DATE: 1/12/07 ANAL _____ DATE _____
USER: THOMASD

Control Limits

(90-110)

(90-110)

(90-110)

(90-110)

(90-110)

(90-110)

(90-110)

(90-110)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6338198**

Date 1/16/2007
Time 16:35:36

Method Code: **Cyanide, Total**
Analyst: **Debbie Thomas**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JJ6MX-1-C0	ND	mg/kg	0.5	01/12-01/15/07	94.69	N		ND	0.53	1.00
JJ6Q4-1-CA	ND	mg/kg	0.5	01/12-01/15/07	94.35	N		ND	0.53	1.00
JJ6RJ-1-CH	ND	mg/kg	0.5	01/12-01/15/07	92.92	N		ND	0.54	1.00
JJ6R1-1-CL	ND	mg/kg	0.5	01/12-01/15/07	92.37	N		ND	0.54	1.00
JJ6TC-1-CP	ND	mg/kg	0.5	01/12-01/15/07	93.72	N		ND	0.53	1.00
JJ8P5-1-CT	ND	mg/kg	0.5	01/12-01/15/07	76.66	N		ND	0.65	1.00
JJ8QK-1-CA	ND	mg/kg	0.5	01/12-01/15/07	92.95	N		ND	0.54	1.00
JJ8V6-1-CH	ND	mg/kg	0.5	01/12-01/15/07	91.26	N		ND	0.55	1.00
JJ8WC-1-CP	ND	mg/kg	0.5	01/12-01/15/07	89.12	N		ND	0.56	1.00
JKP91-1-AA	ND	mg/kg	0.5	01/12-01/15/07	.00			ND	0.50	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JKP91-1-AD		20.0	20.6955	103.47	01/12-01/15/07	(90-110)	1.00
JKP91-1-AC		5.0	4.617	92.34	01/12-01/15/07	(90-110)	1.00

Notes:

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Dil
JJ6MX-1-E4		ND	5	4.8605		97.21	.00	.00	01/12-01/15/07	1
JJ6Q4-1-FH		ND	5	3.801 N	3.5105	76.02	70.21	7.94	01/12-01/15/07	1
JJ8QK-1-FR		ND	5	3.299 N	5.242	65.98	104.84	45.49	01/12-01/15/07	1

Notes:
Results and reporting limits have been adjusted for dry weight.
N Spiked analyte recovery is outside stated control limits.

01-16-07

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

STL St. Louis Laboratory
Cyanide Method 335.4/9012B

Analyst: CH

Prep Date: 1/12/2007

Batch No.: 6338198

Analysis Filename: CN01157

Analysis Date: 1/15/2007

Laboratory ID	Standard Conc. ug/L	Raw Value ug/L	Dilution	Sample Volume Liter (Nom. 0.050L)	Sample Volume Gram (Nom. 1 g)	Scrubber Volume, L (Nom. 0.05L)	Combined Prep Factor	Final Concentration as CN ug/L	Final Concentration as CN mg/Kg *	Percent Recovery	RPD
BLK		1.83	1		1	0.05	0.05		0.0915		
LCS	100	92.34	1		1	0.05	0.05		4.617		
HCS	400	413.91	1		1	0.05	0.05		20.6955		
JJ6MX		4.14	1		1	0.05	0.05		0.207		
JJ6MX D		97.21	1		1	0.05	0.05		4.8605		
JJ6Q4		6.22	1		1	0.05	0.05		0.311		
JJ6Q4 D		70.21	1		1	0.05	0.05		3.5105		
JJ6Q4 S		76.02	1		1	0.05	0.05		3.801		
JJ6RJ		5.28	1		1	0.05	0.05		0.264		
JJ6R1		1.55	1		1	0.05	0.05		0.0775		
JJ6TC		2	1		1	0.05	0.05		0.1		
JJ8P5		2	1		1	0.05	0.05		0.1		
JJ8QK		2	1		1	0.05	0.05		0.1		
JJ8QK D		104.84	1		1	0.05	0.05		5.242		
JJ8QK S		65.98	1		1	0.05	0.05		3.299		
JJ8V6		2.21	1		1	0.05	0.05		0.1105		
JJ8WC		3.14	1		1	0.05	0.05		0.157		
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				

Control Limits (Water/Soil): LCS = 90 - 110; RPD 20%

Control Limits (Water/Soil): MS = 90 - 110; RPD (water) 20%, (soil) 30%

SOP	Rev	Date
STL-WC-0002	5	2/28/06

$$\text{Cyanide, total ug/L (mg/Kg)} = \frac{\text{Raw Value X Dilution X Scrubber Volume (L)}}{\text{Sample Volume (L,G)}}$$

 # Results are raw calcuation and do not reflect rounding, requested significant figures, or client reporting limits.

*** Results on spreadsheet are "wet weight".**

File: Slsvr01\Wet Chem Results\Cyanide, modified 10/16/06

TRACCS
☐ Distilled Samples
☒ Client Requirements Sheets
☒ Bar Code Sheets
☒ Quantums Batch Sheets
☒ Distillation Prep Std log

~~Analyst:~~ Analyst
Preparation Date: CH 01-12-07

☒ Soil
☐ Water

STL St. Louis Laboratory
Cyanide Distillation Log
Method 335.4/9012B

LCS/LCSD/MS = 0.5 ml
HCS = 2.0 ml CN Intermediate QC Std

Lot #s: F6K210226

Batch #: 6338198

Distillation Time: 60

Sequence Number	Laboratory ID	Soil = 1g Water = 50ml Sample Weight ~~(ml)~~ ~~(Nominally 50 ml)~~	NaOH Scrubber Volume (Nominally 50ml)	pH check ~~Spike volume added (ml)~~	Sulfide Interference (Lead Acetate) checked	Nitrate or Nitrite Interference (Sulfamic acid) checked	Comments (Note any interfence treatment)
#1	BLK	1g	50ml	NA	NA	NA	
#2	LCS	↓	↓	↓	↓	↓	
#3	HCS						
#4	JJ6MX						
#5	JJ6MX-S						
#6	JJ6MX-D						
#7	JJ6Q4						
#8	JJ6Q4-S						
#9	JJ6Q4-D						
#10	JJ6RJ						
#11	JJ6R1						
#12	JJ6TC						
#13	JJ8P5						
#14	JJ8QK						
#15	JJ8QK-S						
~~#16~~ 17	JJ8QK-D						
~~#17~~ 18	JJ8V6						
~~#18~~ 19	JJ8WC	↓	↓	↓	↓	↓	
#20 20							
#21							
#22							
#23							

Flow Rate = approx. 2 bubbles/second

Distillation time criteria: 60 min. minimum

SOP	Rev	Date
STL-IP-0005	7	1/18/2006

RQC050 Severn Trent Laboratories, Inc. Run Date: 1/16/07
WET CHEM BATCHSHEET Time: 15:32:31

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6338185** INITIALS: DATA ENTRY:
PREP DATE: 1/12/07 PREP _____ INITIALS _____
COMP DATE: 1/12/07 ANAL _____ DATE _____
USER: THOMASD

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJ28J-1-C0	F-6K180200-004	XX A 06 QP 01	Y-D		SA8-0.5
JJ28J-1-E5	F-6K180200-004-D	XX A 06 QP 01	Y-D		SA8-0.5
JJ28J-1-E4	F-6K180200-004-S	XX A 06 QP 01	Y-D		SA8-0.5
JJ28P-1-CA	F-6K180200-005	XX A 06 QP 01	Y-D		SA8-10
JJ28V-1-CH	F-6K180200-006	XX A 06 QP 01	Y-D		SA8-20
JJ28W-1-CL	F-6K180200-007	XX A 06 QP 01	Y-D		SA8-30
JJ28X-1-CP	F-6K180200-008	XX A 06 QP 01	Y-D		SA8-37
JJ280-1-CW	F-6K180200-009	XX A 06 QP 01	Y-D		SA13-0.5
JJ282-1-C2	F-6K180200-010	XX A 06 QP 01	Y-D		SA13-0.5D
JJ288-1-CD	F-6K180200-011	XX A 06 QP 01	Y-D		SA13-10
JJ29D-1-CH	F-6K180200-012	XX A 06 QP 01	Y-D		SA13-20
JJ29E-1-CJ	F-6K180200-013	XX A 06 QP 01	Y-D		SA13-30
JJ29F-1-CK	F-6K180200-014	XX A 06 QP 01	Y-D		SA13-40
JJ29F-1-FK	F-6K180200-014-D	XX A 06 QP 01	Y-D		SA13-40
JJ29F-1-FJ	F-6K180200-014-S	XX A 06 QP 01	Y-D		SA13-40
JKP79-1-AA	F-6L040000-185-B	XX A 06 QP 01			INTRA-LAB BLANK
JKP79-1-AD	F-6L040000-185-C	XX A 06 QP 01			INTRA-LAB CHECK
JKP79-1-AC	F-6L040000-185-C	XX A 06 QP 01			INTRA-LAB CHECK

RQC050 Severn Trent Laboratories, Inc. Run Date: 1/16/07
WET CHEM BATCHSHEET Time: 15:32:31

STL St. Louis

QC BATCH #: **6338186** INITIALS: DATA ENTRY:
PREP DATE: 11/30/06 PREP _____ INITIALS _____
COMP DATE: 1/12/07 ANAL _____ DATE _____
USER: THOMASD

Control Limits
(90-110)
(90-110)
(90-110)
(90-110)
(90-110)
(90-110)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6338185**

Date 1/16/2007
Time 16:36:31

Method Code: **Cyanide, Total**
Analyst: **Debbie Thomas**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JJ28J-1-C0	ND	mg/kg	0.5	01/12-01/15/07	95.21	N		ND	0.53	1.00
JJ28P-1-CA	ND	mg/kg	0.5	01/12-01/15/07	93.72	N		ND	0.53	1.00
JJ28V-1-CH	ND	mg/kg	0.5	01/12-01/15/07	95.33	N		ND	0.52	1.00
JJ28W-1-CL	ND	mg/kg	0.5	01/12-01/15/07	91.57	N		ND	0.55	1.00
JJ28X-1-CP	ND	mg/kg	0.5	01/12-01/15/07	73.44	N		ND	0.68	1.00
JJ280-1-CW	ND	mg/kg	0.5	01/12-01/15/07	85.91	N		ND	0.58	1.00
JJ282-1-C2	ND	mg/kg	0.5	01/12-01/15/07	90.37	N		ND	0.55	1.00
JJ288-1-CD	ND	mg/kg	0.5	01/12-01/15/07	95.68	N		ND	0.52	1.00
JJ29D-1-CH	ND	mg/kg	0.5	01/12-01/15/07	93.91	N		ND	0.53	1.00
JJ29E-1-CJ	ND	mg/kg	0.5	01/12-01/15/07	94.89	N		ND	0.53	1.00
JJ29F-1-CK	ND	mg/kg	0.5	01/12-01/15/07	79.29	N		ND	0.63	1.00
JKP79-1-AA	ND	mg/kg	0.5	01/12-01/15/07	.00			ND	0.50	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JKP79-1-AD		20.0	21.133	105.66	01/12-01/15/07	(90-110)	1.00
JKP79-1-AC		5.0	4.938	98.76	01/12-01/15/07	(90-110)	1.00

Notes:

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Dil
JJ28J-1-E4		ND	5	5.2165	5.2515	104.33	105.03	.66	01/12-01/15/07	1
JJ29F-1-FJ		ND	5	3.7005 N	4.806	74.01	96.12	25.99	01/12-01/15/07	1

Notes:
Results and reporting limits have been adjusted for dry weight.
N Spiked analyte recovery is outside stated control limits.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

01-16-07

STL St. Louis Laboratory
Cyanide Method 335.4/9012B

Analyst: CH

Prep Date: 1/12/2007

Batch No.: ~~6338185~~ 6338/85

Analysis Filename: CN01157

Analysis Date: 1/15/2007

Laboratory ID	Standard Conc. ug/L	Raw Value ug/L	Dilution	Sample Volume Liter (Nom. 0.050L)	Sample Volume Gram (Nom. 1 g)	Scrubber Volume, L (Nom. 0.05L)	Combined Prep Factor	Final Concentration as CN ug/L	Final Concentration as CN mg/Kg *	Percent Recovery	RPD
BLK		3.36	1		1	0.05	0.05		0.168		
LCS	100	98.76	1		1	0.05	0.05		4.938		
HCS	400	422.66	1		1	0.05	0.05		21.133		
JJ28J		4.98	1		1	0.05	0.05		0.249		
JJ28J D		105.03	1		1	0.05	0.05		5.2515		
JJ28J S		104.33	1		1	0.05	0.05		5.2165		
JJ28P		3.8	1		1	0.05	0.05		0.19		
JJ28V		1.93	1		1	0.05	0.05		0.0965		
JJ28W		3.09	1		1	0.05	0.05		0.1545		
JJ28X		3.32	1		1	0.05	0.05		0.166		
JJ280		2.38	1		1	0.05	0.05		0.119		
JJ282		3.53	1		1	0.05	0.05		0.1765		
JJ288		3.3	1		1	0.05	0.05		0.165		
JJ29D		3.99	1		1	0.05	0.05		0.1995		
JJ29E		3.52	1		1	0.05	0.05		0.176		
JJ29F		3.75	1		1	0.05	0.05		0.1875		
JJ29F D		96.12	1		1	0.05	0.05		4.806		
JJ29F S		74.01	1		1	0.05	0.05		3.7005		
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				

Control Limits (Water/Soil): LCS = 90 - 110; RPD 20%

Control Limits (Water/Soil): MS = 90 - 110; RPD (water) 20%, (soil) 30%

SOP	Rev	Date
STL-WC-0002	5	2/28/06

$$\text{Cyanide, total ug/L (mg/Kg)} = \frac{\text{Raw Value X Dilution X Scrubber Volume (L)}}{\text{Sample Volume (L,G)}}$$

 # Results are raw calcuation and do not reflect rounding, requested significant figures, or client reporting limits.

*** Results on spreadsheet are "wet weight".**

File: Slsvr01\Wet Chem Results\Cyanide, modified 10/16/06

TRACCS ☐ Distilled Samples
☒ Client Requirements Sheets
☒ Bar Code Sheets
☒ Quantums Batch Sheets
☒ Distillation Prep Std Log

Analyst: ~~Analyst~~

Preparation Date: CH 01-12-07

☒ Soil
☐ Water

STL St. Louis Laboratory
Cyanide Distillation Log
Method 335.4/9012B

LCS/LCSD/MS = 0.5 ml
HCS = 2.0 ml CN Intermediate QC Std

Lot #s: P6K180290

Batch #: 6338185

Distillation Time: 60

Sequence Number	Laboratory ID	Soil = 1g Water = 50ml Sample Weight ~~(ml) (Nominally 50 ml)~~	NaOH Scrubber Volume (Nominally 50ml)	pH check Spike volume added (ml)	Sulfide Interference (Lead Acetate) checked	Nitrate or Nitrite Interference (Sulfamic acid) checked	Comments (Note any interfence treatment)
#1	BLK	1g	50ml	NA	NA	NA	
#2	LCS						
#3	HCS						
#4	JJ28J						
#5	JJ28J-S						
#6	JJ28J-D						
#7	JJ28P						
#8	JJ28V						
#9	JJ28W						
#10	JJ28X						
#11	JJ280						
#12	JJ282						
#13	JJ288						
#14	JJ29D						
#15	JJ29E						
~~#16~~ 17	JJ29F						
~~#17~~ 18	JJ29F-S						
~~#18~~ 19	JJ29F-D						
~~#20~~ 20							
~~#21~~ ~~20~~							
~~#22~~							
~~#23~~							

Flow Rate = approx. 2 bubbles/second

Distillation time criteria: 60 min. minimum

SOP	Rev	Date
STL-IP-0005	7	1/18/2006

Coefs: 1st: 0.000000 2nd: 9.528742

Report Date: 1/15/07
Analysis Date: 1/15/07
Data File: CN01157
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.999010
Corr: 0.999505
Std. Dev.: 6.096300

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
1	P			502.38		16:29:52
2	W			2.09	I	16:31:08
3	S1			0.45	sI	16:32:24
4	S2			5.33 5	s	16:33:40
5	S3			19.52 20	s	16:34:53
6	S4			102.36 100	s	16:36:08
7	S5			256.86 250	s	16:37:23
8	S6			295.48 300	s	16:38:38
9	S7			388.56 400	s	16:39:53
10	S8			507.46 500	s	16:41:08
11	ICV			200.76/200 100% ~~200%~~		16:42:24
12	ICB			1.58	I	16:43:39
13	BLK	6333327		1.57	I	16:44:54
14	LCS			101.62/100 102%		16:46:09
15	HCS		low	357.12/400 89%		16:47:23
16	JJT9F			2.95	I	16:48:38
17	JJ0TH			0.39	RI	16:49:53
18	JJ0TN			0.62	I	16:51:08
19	JJ0TV			3.64	I	16:52:23
20	JJ0TVD			98.57		16:53:39
21	JJ0TVS			96.24		16:54:55
22	JJ0V5			3.16	I	16:56:10
23	ccv			250.04/250 100%		16:57:25
24	ccb			0.82	I	16:58:40
25	JJ0WG			3.84	I	16:59:55
26	JJ0WP			24.55		17:01:11
27	JJ0WQ			2.67	I	17:02:26
28	JJ0W3			2.67	I	17:03:41
29	JJ0XF			0.00	-RI	17:04:56
30	JJ0X2			0.33	RI	17:06:11
31	JJ0X5			2.89	I	17:07:26
32	JJ0X5D			67.34		17:08:41
33	JJ0X5S			54.07		17:09:56
34	ccv			238.59/250 95%		17:11:11
35	ccb			1.01	I	17:12:26
36	BLK	6333274		1.93	I	17:13:41
37	LCS		low	85.47/100 85%		17:14:57
38	HCS			359.34/400 90%		17:16:12
39	JJT4R			3.08	I	17:17:27
40	JJT44			1.68	I	17:18:42
41	JJT47			1.91	I	17:19:57
42	JJT5C			0.74	I	17:21:12
43	JJT5K			2.60	I	17:22:27
44	JJT5Q			2.36	I	17:23:42
45	JJT55			6.31		17:24:58

Coefs: 1st: 0.000000 2nd: 9.528742

Report Date: 1/15/07
Analysis Date: 1/15/07
Data File: CN01157
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.999010
Corr: 0.999505
Std. Dev.: 6.096300

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
46	ccv			235.28/250	94%	17:26:13
47	ccb			1.65	I	17:27:28
48	JJT58			1.41	I	17:28:43
49	JJT66			1.41	I	17:29:58
50	JJT7F			0.94	I	17:31:13
51	JJT7Q			3.49	I	17:32:28
52	JJT8N			1.63	I	17:33:43
53	JJT87			2.56	I	17:34:58
54	JJT9D			2.09	I	17:36:13
55	JJ0QP			4.64	I	17:37:28
56	JJ0QPD			79.80		17:38:44
57	JJ0QPS			101.20		17:39:59
58	ccv			252.68/250	101%	17:41:14
59	ccb			2.06	I	17:42:29
60	blk	6338198		1.83	I	17:43:44
61	lcs			92.34/100	92%	17:44:59
62	hcs			413.91/400	103%	17:46:14
63	JJ6MX			4.14	I	17:47:29
64	JJ6MXD			97.21		17:48:45
65	JJ6Q4			6.22	I	17:50:00
66	JJ6Q4D			70.21		17:51:15
67	JJ6Q4S			76.02		17:52:29
68	JJ6RJ			5.28	I	17:53:44
69	JJ6R1			1.55	I	17:54:59
70	ccv			247.97/250	99%	17:56:15
71	ccb			2.71	I	17:57:30
72	JJ6TC			2.00	I	17:58:45
73	JJ8P5			2.00	I	18:00:00
74	JJ8QK			2.00	I	18:01:15
75	JJ8QKD			104.84		18:02:30
76	JJ8QKS			65.98		18:03:46
77	JJ8V6			2.21	I	18:05:01
78	JJ8WC			3.14	I	18:06:16
79	ccv			234.20/250	94%	18:07:32
80	ccb			3.13	I	18:08:47
81	blk	6338185		3.36	I	18:10:02
82	lcs			98.76/100	99%	18:11:17
83	hcs			422.66/400	106%	18:12:31
84	JJ28J			4.98	I	18:13:46
85	JJ28JD			105.03		18:15:02
86	JJ28JS			104.33		18:16:17
87	JJ28P			3.80	I	18:17:32
88	JJ28V			1.93	I	18:18:47
89	JJ28W			3.09	I	18:20:02
90	JJ28X			3.32	I	18:21:17

Page: 3 Order of Fit: Fit1st

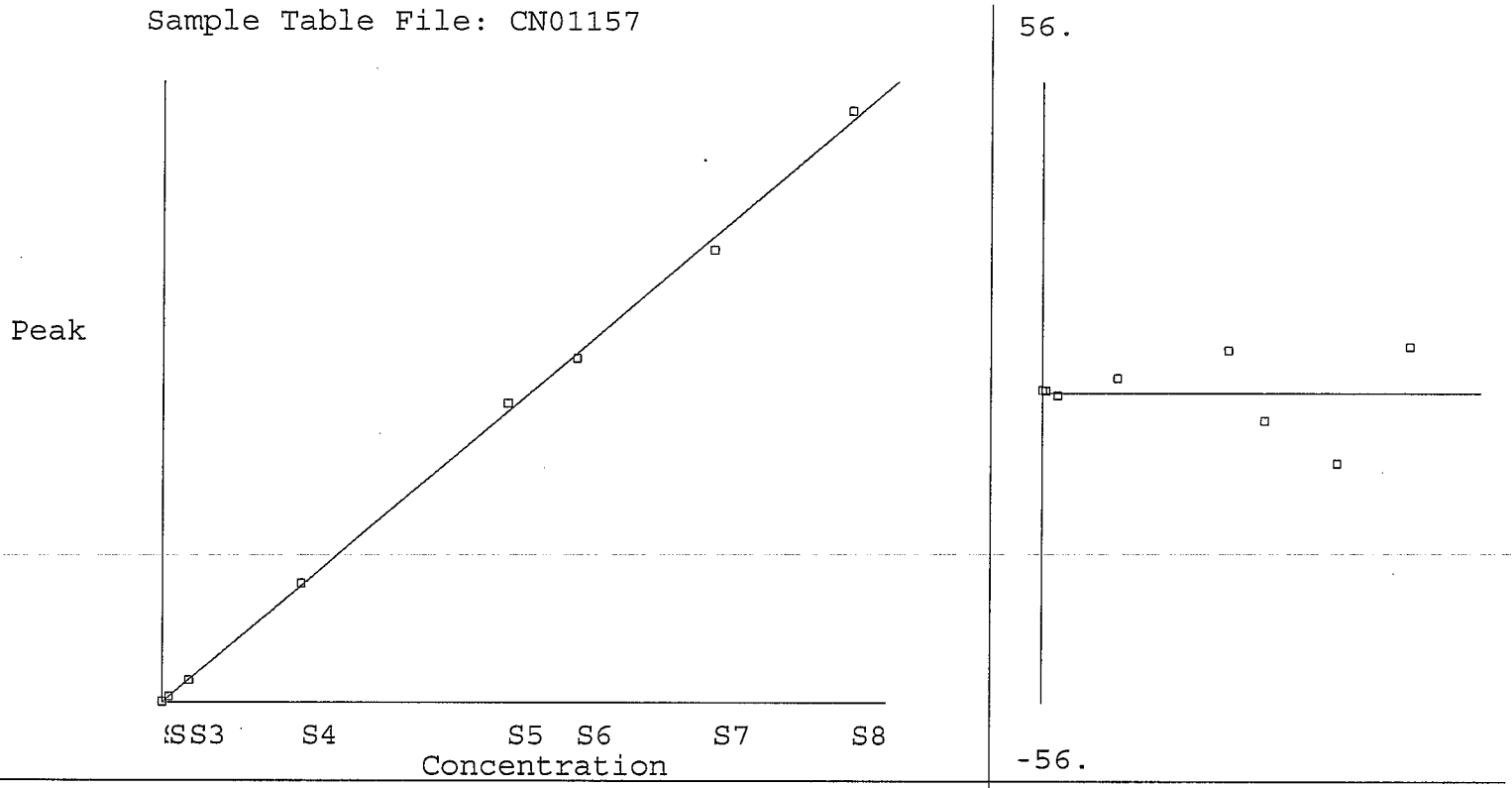
Coefs: 1st: 0.000000 2nd: 9.528742

Report Date: 1/15/07
Analysis Date: 1/15/07
Data File: CN01157
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.999010
Corr: 0.999505
Std. Dev.: 6.096300

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
91	ccv			240.89/250	96%	18:22:33
92	ccb			2.61	I	18:23:48
93	JJ280			2.38	I	18:25:03
94	JJ282			3.53	I	18:26:18
95	JJ288			3.30	I	18:27:33
96	JJ29D			3.99	I	18:28:48
97	JJ29E			3.52	I	18:30:03
98	JJ29F			3.75	I	18:31:18
99	JJ29FD			96.12		18:32:34
100	JJ29FS			74.01		18:33:49
101	ccv			237.13/250	95%	18:35:05
102	ccb			2.57	I	18:36:20
103	end			0.00	RI	18:37:35

Data File: CN01157
Method File: CYANIDE
Sample Table File: CN01157



S#	Peak	Value	Calc	Residual
S1	0.05	0.00	0.45	0.45
S2	0.56	5.00	5.33	0.33
S3	2.05	20.00	19.52	-0.48
S4	10.74	100.00	102.36	2.36
S5	26.96	250.00	256.86	6.86
S6	31.01	300.00	295.48	-4.52
S7	40.78	400.00	388.56	-11.44
S8	53.26	500.00	507.46	7.46

Coefficients:

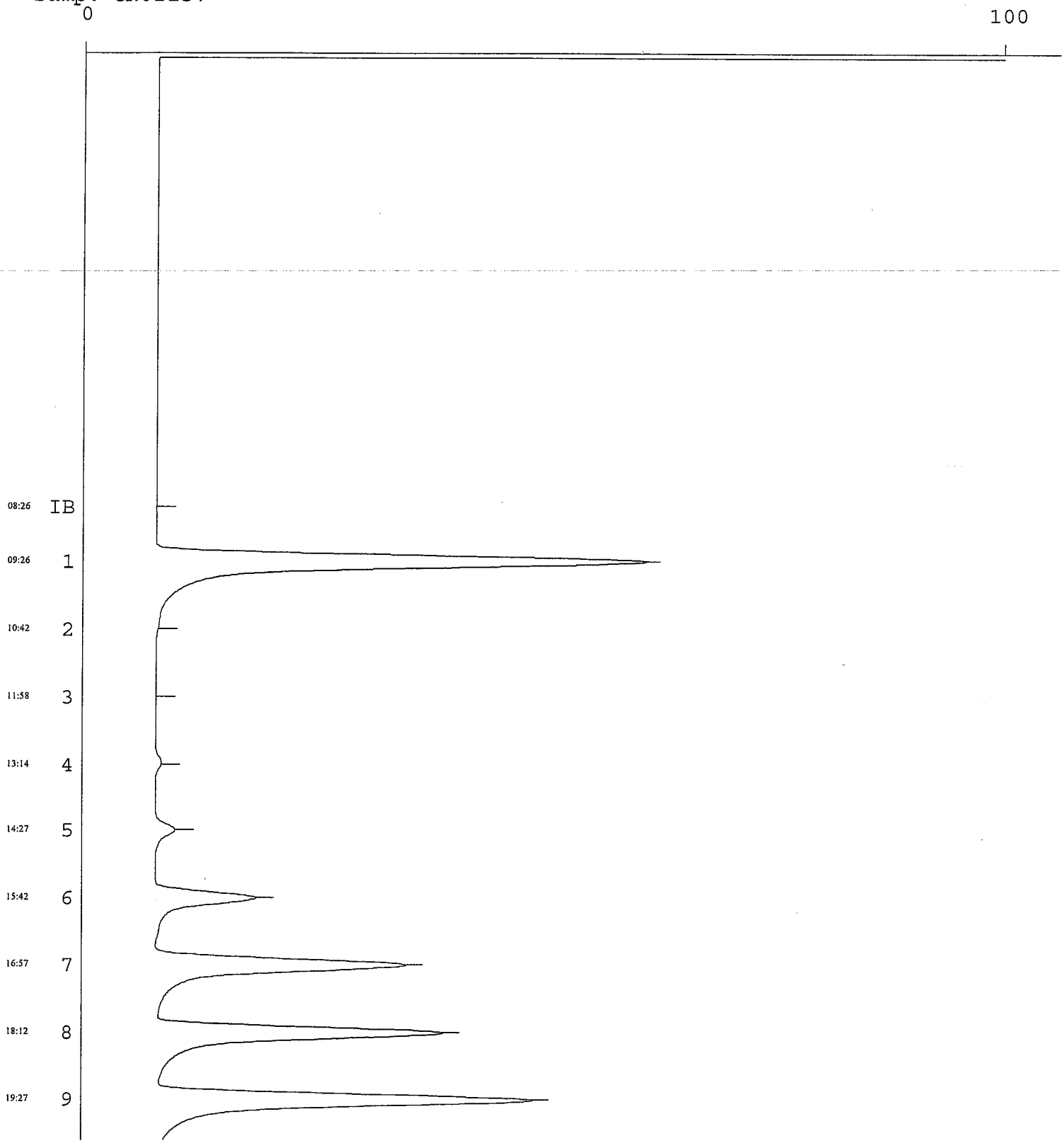
Intercept :	0
Slope :	9.52874
Std Dev :	6.0963
Corr Coef :	0.999505
R^2 :	0.99901

01-16-07

1/15/2007 19:45

Page:1

Data: CN01157
Mthd: CYANIDE
Samp: CN01157



1/15/2007 19:45

Page:2

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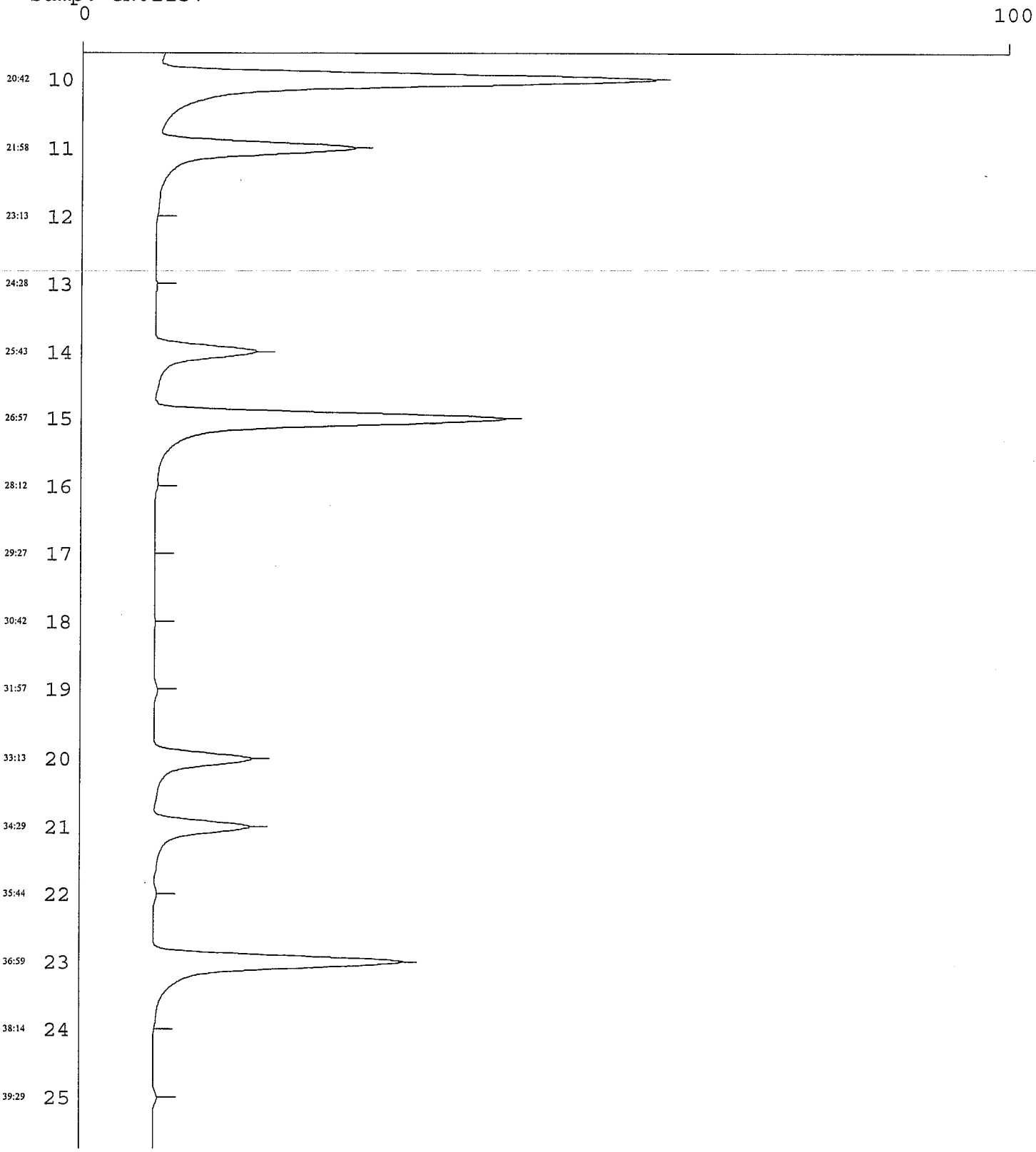
Mthd: CYANIDE
Samp: CN01157



1/15/2007 19:45

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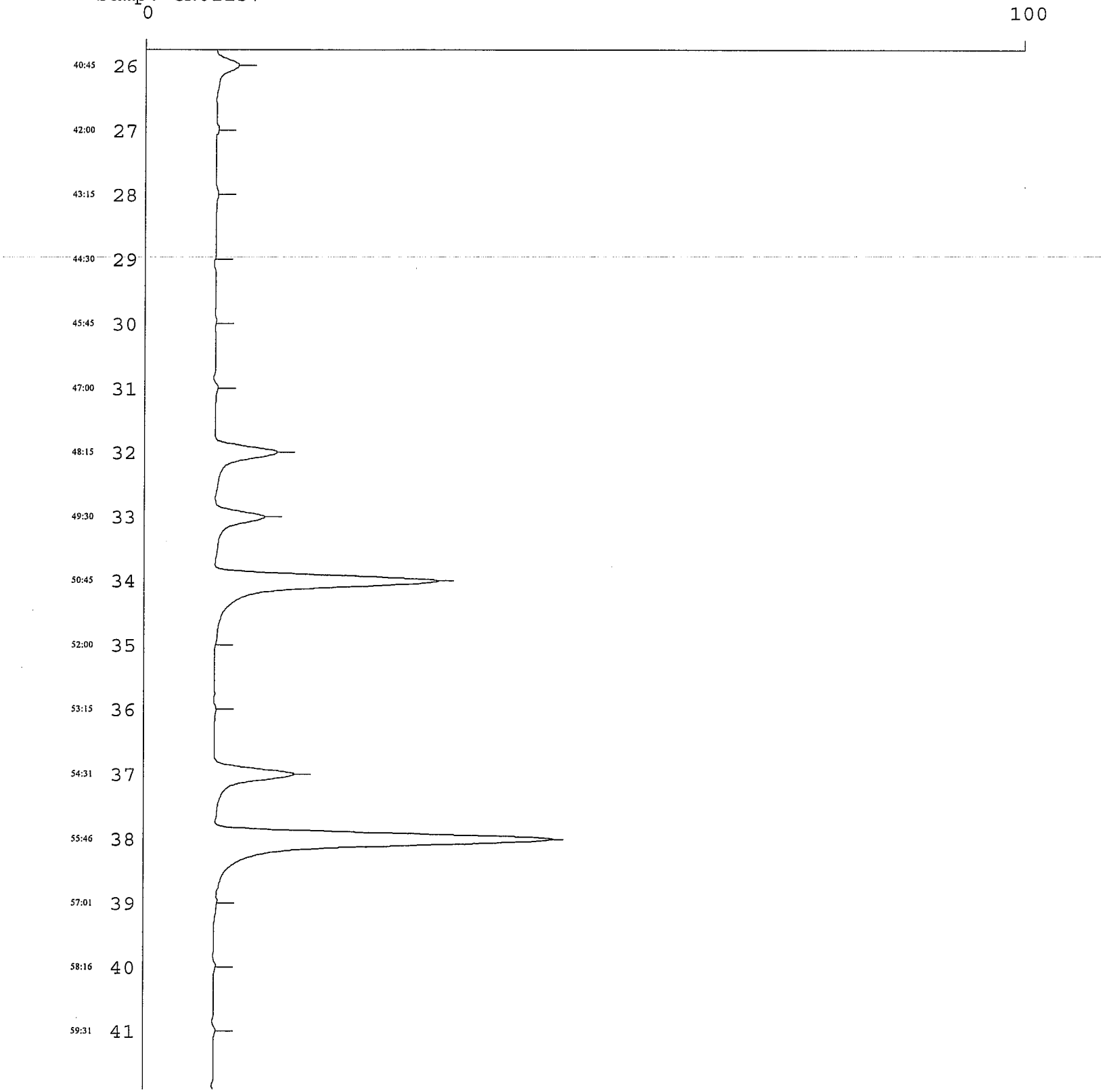
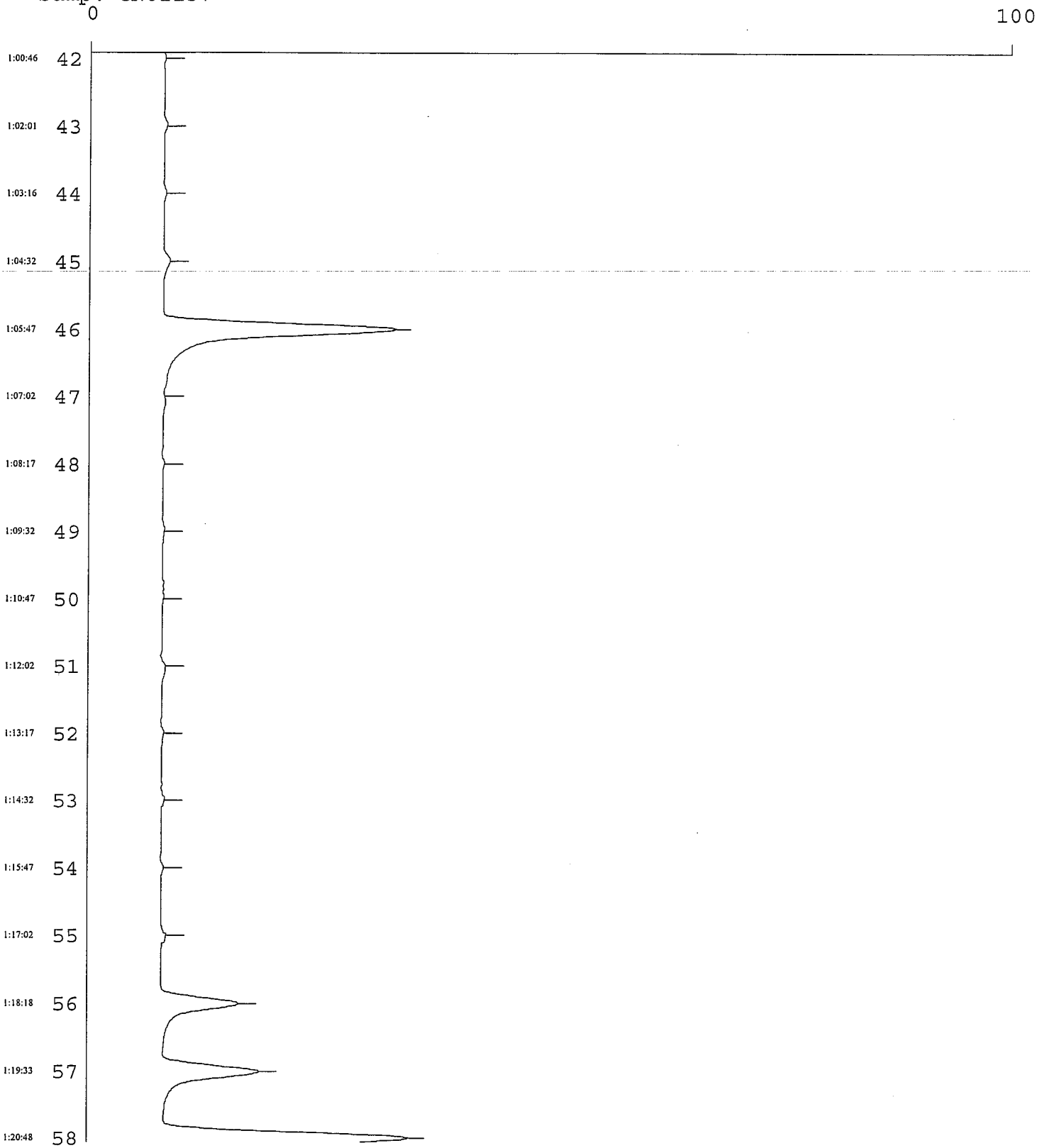
Mthd: CYANIDE
Samp: CN01157



1/15/2007 19:45

Page:4

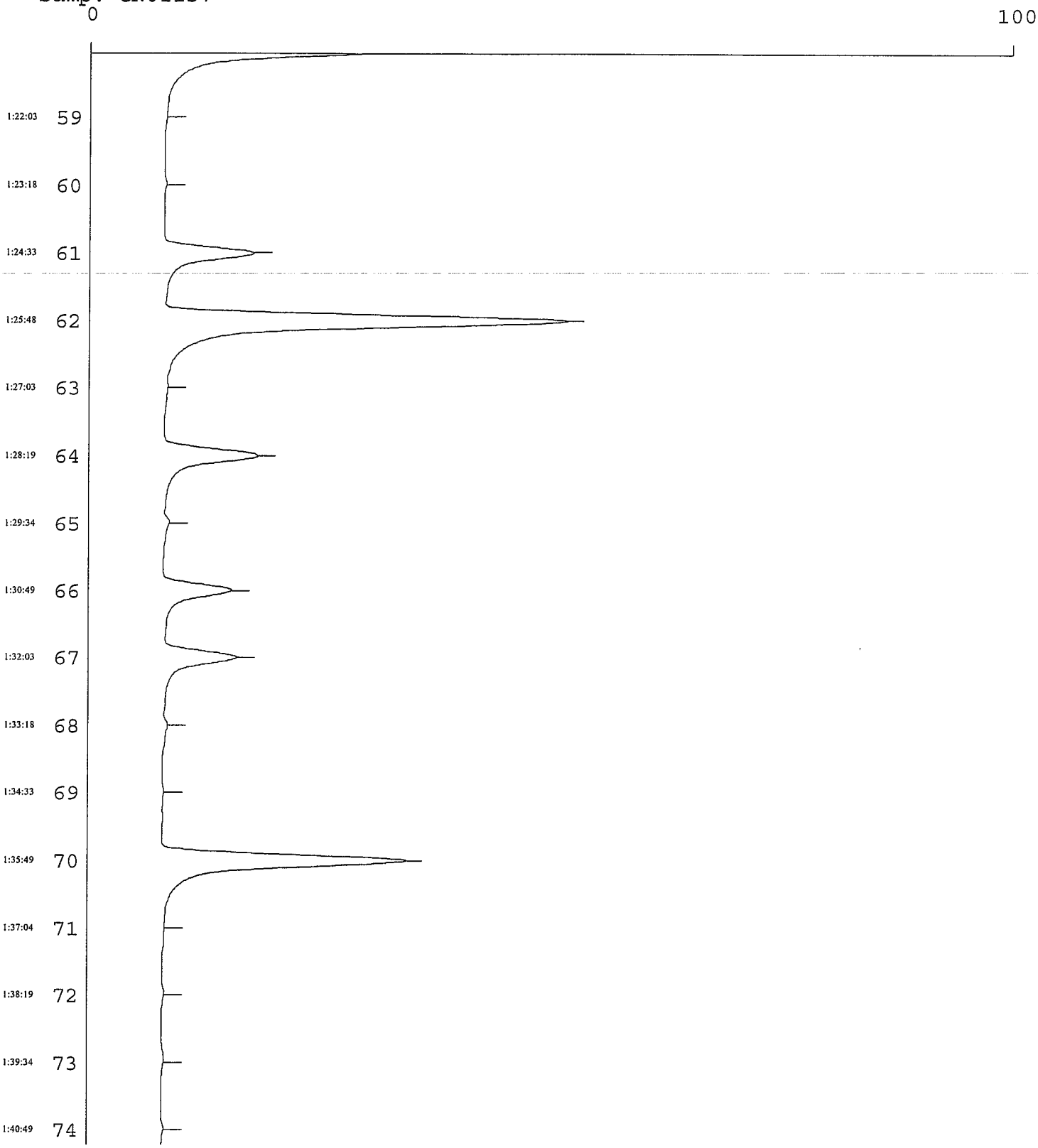
Data: CN01157
Mthd: CYANIDE
Samp: CN01157



1/15/2007 19:45

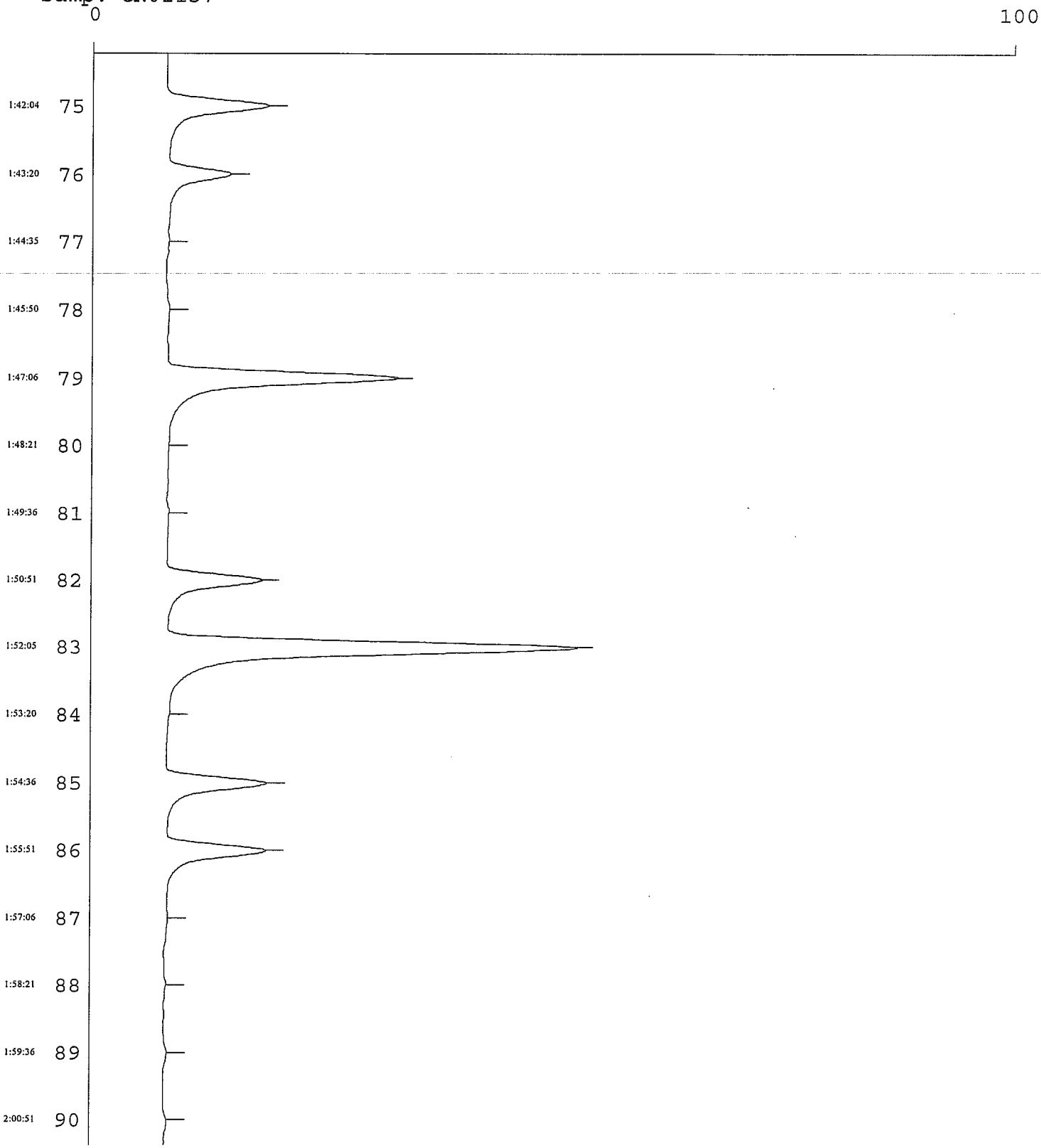
Page:5

Data: CN01157
Mthd: CYANIDE
Samp: CN01157



1/15/2007 19:45

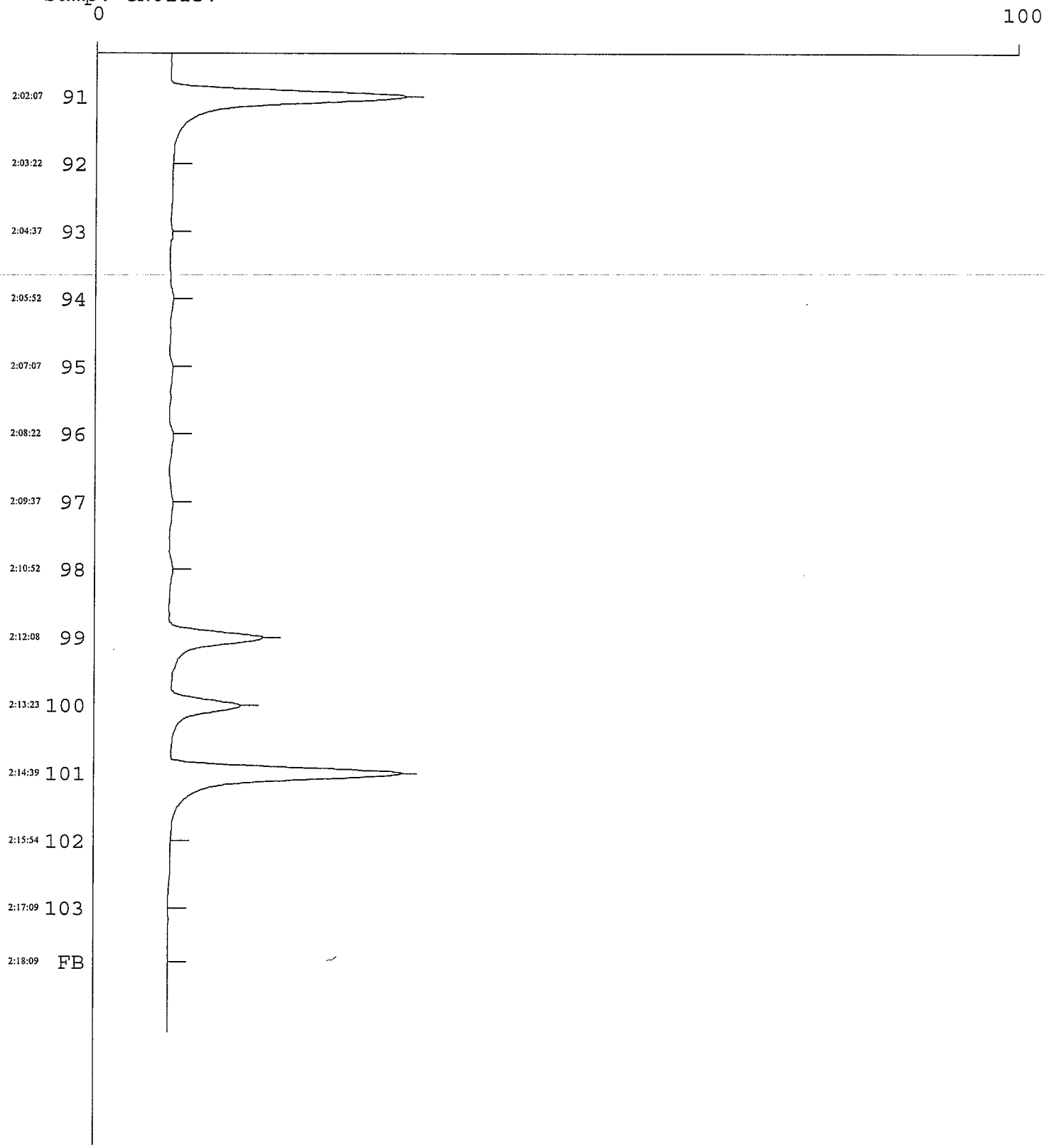
Data: CN01157
Mthd: CYANIDE
Samp: CN01157



1/15/2007 19:45

Page:7

Data: CN01157
Mthd: CYANIDE
Samp: CN01157



TRENT STL

Data Review Check List

Wet Chemistry

Due Dates: Earliest: Latest:	**Run Date:** 12-04-06
Method Name/#: CN 335.1, 335.2, 335.4, 9010B, 9012A, 4500	
Batch #: 6320553, 6320310, 6331214	
Lot #s: F6K030310, F6K070276, F6K080215, F6K090232, F6K100205, F6K140289, F6K150251, F6K110180, F6K140296	
NCM's:	

Review Item	Yes	No	N/A	Review
Initial Calibration				
Initial Calibration data in this package?	✓			✓
If not, please specify initial calibration date:				
Initial Calibration meets method acceptance criteria:	✓			✓
Corr. Coefficient = 0.995; Y-intercept < the absolute value of the RL				
Is the low level standard = the reporting limit?	✓			✓
Calibration Check (ICV)				
ICV performed with initial calibration?	✓			✓
ICV meets method acceptance criteria (max. 10% D)?	✓			✓
Continuing Calibration Verification (CCV)				
CCV performed at the prescribed frequency?	✓			✓
CCV meets method acceptance criteria (max. 10% D)?	✓			✓
Continuing Calibration Blank (CCB)				
CCB performed after every CCV?	✓			✓
CCB meets method acceptance criteria?	✓			✓
Criteria: < the absolute value of the Reporting Limit (see client sheet for				
Batch QC - Method Blanks				
Is a Method Blank required for this analysis?	✓			✓
Is the method blank below the Reporting Limit for targets of interest?	✓			✓
Batch QC - LCS				
Is a LCS required for this analysis?	✓			✓
Are the LCS (LCSD) recoveries within method acceptance?		✓		✓
Batch QC - MS/MSD				
Is a MS/MSD or MS/Sample Duplicate required for this analysis?	✓			✓
Are the MS(MSD) recoveries within method acceptance?		✓		✓
Batch QC - RPD				
MS/MSD or Sample/Sample Duplicate RPD within acceptance criteria		✓		✓
Sample Results - Report				
Are samples bracketed by acceptable CCV/CCB?	✓			✓
Are results within the calibration range?	✓			✓
Was analysis performed within Hold Time?	✓	✓		✓
Did samples require dilution due to: (check one if applicable)		✓		
matrix interference high target analyte concentration				✓
If dilutions were performed, was it within Hold Time?			✓	
If dilutions were performed, are the undiluted runs in this submission?			✓	
If not, please indicate where found:				
Sample Results - Misc. information				
Are Batch sheets, Preparation Logs (if applicable) included?	✓			✓
Are copies of run logs included, initialed and dated?	✓			✓
Were manual calculations performed? reviewer must check calculations		✓		✓
Were manual integrations performed, dated, and initialed?		✓		✓
Client requirement sheets followed in data package?	✓			✓
Reagents and Standards documented on prep/batch sheets?	✓			
Additional Comments:				

Analyst/Date: 01-22-07 **Reviewer/Date:** 1/23/07

RQC050 Severn Trent Laboratories, Inc. Run Date: 1/19/07
WET CHEM BATCHSHEET Time: 14:07:08

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6331214** INITIALS: DATA ENTRY:
PREP DATE: 11/16/06 PREP _____ INITIALS _____
COMP DATE: 12/11/06 ANAL _____ DATE _____
USER: HOUGHC

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJJHE-1-C6	F-6K110180-003	XX A 06 QP 01	Y-D		SA12-20
JJJHE-1-C7	F-6K110180-003-S	XX A 06 QP 01	Y-D		SA12-20
JJJHE-1-C8	F-6K110180-003-X	XX A 06 QP 01	Y-D		SA12-20 DUP
JJJHF-1-C6	F-6K110180-004	XX A 06 QP 01	Y-D		SA12-30
JJNEQ-1-CV	F-6K140246-003	XX A 06 QP 01	Y-D		SA3-0.5
JJNF1-1-C2	F-6K140246-004	XX A 06 QP 01	Y-D		SA3-0.5D
JJNF4-1-CD	F-6K140246-005	XX A 06 QP 01	Y-D		SA3-10
JJNF9-1-CJ	F-6K140246-006	XX A 06 QP 01	Y-D		SA3-20
JJNGF-1-CL	F-6K140246-007	XX A 06 QP 01	Y-D		SA3-30
JJNGH-1-CN	F-6K140246-008	XX A 06 QP 01	Y-D		SA3-40
JJNQD-1-AX	F-6K140289-001	XX A 06 QP 01	B		S-5-1
JJNQ2-1-AX	F-6K140289-002	XX A 06 QP 01	B		S-5-2
JJNQ3-1-AX	F-6K140289-003	XX A 06 QP 01	B		S-5-3
JJQ10-1-CW	F-6K150251-001	XX A 06 QP 01	Y-D		SA6-0.5
JJQ10-1-EL	F-6K150251-001-D	XX A 06 QP 01	Y-D		SA6-0.5
JJQ10-1-EK	F-6K150251-001-S	XX A 06 QP 01	Y-D		SA6-0.5
JJQ3H-1-C4	F-6K150251-003	XX A 06 QP 01	Y-D		SA6-10
JJQ34-1-CF	F-6K150251-004	XX A 06 QP 01	Y-D		SA6-20

RQC050 Severn Trent Laboratories, Inc. Run Date: 1/19/07
WET CHEM BATCHSHEET Time: 14:07:08

STL St. Louis

QC BATCH #: **6331214** INITIALS: DATA ENTRY:
PREP DATE: 12/11/06 PREP _____ INITIALS _____
COMP DATE: 12/11/06 ANAL _____ DATE _____
USER: HOUGHC

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:	Control Limits
JJQ4Q-1-CJ	F-6K150251-005	XX A 06 QP 01	Y-D	_____	SA6-30	(90-110)
JKC57-1-AD	F-6K270000-214-B	XX A 06 QP 01		_____	INTRA-LAB BLANK	(90-110)
JKC57-1-AA	F-6K270000-214-B	XX A 06 QP 01		_____	INTRA-LAB BLANK	(90-110)
JKC57-1-AE	F-6K270000-214-C	XX A 06 QP 01		_____	INTRA-LAB CHECK	(90-110)
JKC57-1-AC	F-6K270000-214-C	XX A 06 QP 01		_____	INTRA-LAB CHECK	(90-110)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6331214**

Date 1/19/2007
Time 14:50:15

Method Code: **Cyanide, Total**
Analyst: **Chris Hough**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JJJHE-1-C6	ND	mg/kg	0.5	11/16-12/04/06	92.40	N	R	ND	0.54	1.00
JJJHE-1-C8	ND	mg/kg	0.5	11/16-12/04/06	92.40	N	R	ND	0.54	1.00
JJJHF-1-C6	ND	mg/kg	0.5	12/11-12/13/06	62.01	N	R	ND	0.81	1.00
JJNEQ-1-CV	ND	mg/kg	0.5	12/11-12/13/06	93.56	N	R	ND	0.53	1.00
JJNF1-1-C2	ND	mg/kg	0.5	12/11-12/13/06	93.74	N	R	ND	0.53	1.00
JJNF4-1-CD	ND	mg/kg	0.5	12/11-12/13/06	93.70	N	R	ND	0.53	1.00
JJNF9-1-CJ	ND	mg/kg	0.5	12/11-12/13/06	91.07	N	R	ND	0.55	1.00
JJNGF-1-CL	ND	mg/kg	0.5	12/11-12/13/06	77.60	N	R	ND	0.64	1.00
JJNGH-1-CN	ND	mg/kg	0.5	12/11-12/13/06	67.90	N	R	ND	0.74	1.00
JJNQD-1-AX	ND	mg/kg	0.5	12/11-12/13/06	89.21	N	R	ND	0.56	1.00
JJNQ2-1-AX	ND	mg/kg	0.5	12/11-12/13/06	89.06	N	R	ND	0.56	1.00
JJNQ3-1-AX	ND	mg/kg	0.5	12/11-12/13/06	85.02	N	R	ND	0.59	1.00
JJQ10-1-CW	ND	mg/kg	0.5	12/11-12/13/06	94.22	N	R	ND	0.53	1.00
JJQ3H-1-C4	ND	mg/kg	0.5	12/11-12/13/06	92.39	N	R	ND	0.54	1.00
JJQ34-1-CF	ND	mg/kg	0.5	12/11-12/13/06	92.29	N	R	ND	0.54	1.00
JJQ4Q-1-CJ	ND	mg/kg	0.5	12/11-12/13/06	94.97	N	R	ND	0.53	1.00
JKC57-1-AD	ND	mg/kg	0.5	12/11-12/13/06	.00			ND	0.50	1.00
JKC57-1-AA	ND	mg/kg	0.5	11/16-12/04/06	.00		R	ND	0.50	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JKC57-1-AE		5.0	4.8	96.00	12/11-12/13/06	(90-110)	1.00
JKC57-1-AC		5.0	2.6 N	52.00	11/16-12/04/06	(90-110)	1.00

Notes:
N Spiked analyte recovery is outside stated control limits.

STL St. Louis Laboratory
Cyanide Method 335.4/9012B

Page: 1 of: 1

Analyst: HOUGHC

Batch No.: 6331214

Analysis Filename: CN120406

Prep Date: 11/16/2006

Analysis Date: 12/4/2006

				Sample Volume		Scrubber		Final Concentration as CN			
Laboratory ID	Standard Conc. ug/L	Raw Value ug/L	Dilution	Liter (Nom. 0.050L)	Gram (Nom. 1 g)	Volume, L (Nom. 0.05L)	Combined Prep Factor	ug/L	mg/Kg *	Percent Recovery	RPD
JJJHE		0.01	1		1	0.05	0.05	#VALUE!	0.0005		
JJJHEX		1.55	1		1	0.05	0.05		0.0775		
JJJHES		55.41	1		1	0.05	0.05		2.7705		
BLK		0	1		1	0.05	0.05		0		
LCS		51.52	1		1	0.05	0.05		2.576		
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
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							#DIV/0!				

Control Limits (Water/Soil): LCS = 90 - 110; RPD 20%

Control Limits (Water/Soil): MS = 90 - 110; RPD (water) 20%, (soil) 30%

$$\text{Cyanide, total ug/L (mg/Kg)} = \frac{\text{Raw Value X Dilution X Scrubber Volume (L)}}{\text{Sample Volume (L,G)}}$$

SOP	Rev	Date
STL-WC-0002	5	2/28/06

 # Results are raw calcuation and do not reflect rounding, requested significant figures, or client reporting limits.
*** Results on spreadsheet are "wet weight".**

File: Slsvr01\Wet Chem Results\6331214Cyanide.xls, modified 10/16/06

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6331214**

Date 1/19/2007
Time 14:50:15

Method Code: **Cyanide, Total**
Analyst: **Chris Hough**
MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Di
JJQI0-1-EK		ND	5	4.758	5.421	95.16	108.42	13.02	12/11-12/13/06	

Notes:
Results and reporting limits have been adjusted for dry weight.

Measured Spike

Work Order	Exception Code	Measured Sample	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Dil.
JJJHE-1-C7		ND	5	4.813	96.26	11/16-12/04/06	1.00

Notes:
Results and reporting limits have been adjusted for dry weight.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
SULFIDE	13	9	4	0	0	0	2.5

RQC050 Severn Trent Laboratories, Inc. Run Date: 1/19/07
WET CHEM BATCHSHEET Time: 13:07:06

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6320310** INITIALS: DATA ENTRY:
PREP DATE: 11/16/06 PREP _____ INITIALS _____
COMP DATE: 12/08/06 ANAL _____ DATE _____
USER: HOUGHC

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JH7XJ-1-CW	F-6K080215-015	XX A 06 QP 01	Y-D		SA10-40
JJCG6-1-C0	F-6K090232-007	XX A 06 QP 01	Y-D		SA14-0.5
JJCH3-1-CA	F-6K090232-008	XX A 06 QP 01	Y-D		SA14-10
JJCJT-1-CG	F-6K090232-009	XX A 06 QP 01	Y-D		SA14-20
JJCJ4-1-CJ	F-6K090232-010	XX A 06 QP 01	Y-D		SA14-30
JJCKC-1-CJ	F-6K090232-011	XX A 06 QP 01	Y-D		SA14-40
JJCKX-1-CL	F-6K090232-012	XX A 06 QP 01	Y-D		SA15-0.5
JJCPW-1-CJ	F-6K090232-013	XX A 06 QP 01	Y-D		SA15-10
JJCP7-1-CN	F-6K090232-014	XX A 06 QP 01	Y-D		SA15-10D
JJCQG-1-CU	F-6K090232-015	XX A 06 QP 01	Y-D		SA15-20
JJCQ2-1-CV	F-6K090232-016	XX A 06 QP 01	Y-D		SA15-30
JJCQ5-1-CW	F-6K090232-017	XX A 06 QP 01	Y-D		SA15-35
JJFPD-1-CX	F-6K100205-003	XX A 06 QP 01	Y-D		SA16-0.5
JJFQH-1-C4	F-6K100205-004	XX A 06 QP 01	Y-D		SA16-10
JJFQQ-1-CF	F-6K100205-005	XX A 06 QP 01	Y-D		SA16-20
JLA64-1-AA	F-6K160000-310-B	XX A 06 QP 01			INTRA-LAB BLANK
JLA64-1-AD	F-6K160000-310-C	XX A 06 QP 01			INTRA-LAB CHECK
JLA64-1-AC	F-6K160000-310-C	XX A 06 QP 01			INTRA-LAB CHECK

RQC050 Severn Trent Laboratories, Inc. Run Date: 1/19/07
WET CHEM BATCHSHEET Time: 13:07:06

STL St. Louis

QC BATCH #: **6320311**
PREP DATE: 11/16/06
COMP DATE: 12/08/06
USER: HOUGHC

INITIALS:
PREP _____
ANAL _____

DATA ENTRY:
INITIALS _____
DATE _____

Control Limits

(90-110)

(90-110)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6320310**

Date 1/19/2007
Time 14:33:37

Method Code: **Cyanide, Total**
Analyst: **Chris Hough**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Output Result	LDL	Dil.
JH7XJ-1-CW	ND	mg/kg	0.5	11/16-12/04/06	67.60	N	R	ND	0.74	1.00
JJCG6-1-C0	ND	mg/kg	0.5	11/16-12/04/06	91.33	N	R	ND	0.55	1.00
JJCH3-1-CA	ND	mg/kg	0.5	11/16-12/04/06	88.47	N	R	ND	0.57	1.00
JJCJT-1-CG	ND	mg/kg	0.5	11/16-12/04/06	80.63	N	R	ND	0.62	1.00
JJCJ4-1-CJ	ND	mg/kg	0.5	11/16-12/04/06	62.54	N	R	ND	0.80	1.00
JJCKC-1-CJ	ND	mg/kg	0.5	11/16-12/04/06	80.95	N	R	ND	0.62	1.00
JJCKX-1-CL	ND	mg/kg	0.5	11/16-12/04/06	86.60	N		ND	0.58	1.00
JJCPW-1-CJ	ND	mg/kg	0.5	11/16-12/04/06	85.17	N	R	ND	0.59	1.00
JJCP7-1-CN	ND	mg/kg	0.5	11/16-12/04/06	91.00	N	R	ND	0.55	1.00
JJCQG-1-CU	ND	mg/kg	0.5	11/16-12/04/06	90.73	N	R	ND	0.55	1.00
JJCQ2-1-CV	ND	mg/kg	0.5	11/16-12/04/06	73.46	N	R	ND	0.68	1.00
JJCQ5-1-CW	ND	mg/kg	0.5	11/16-12/04/06	72.72	N		ND	0.69	1.00
JJFPD-1-CX	ND	mg/kg	0.5	11/16-12/04/06	93.65	N	R	ND	0.53	1.00
JJFQH-1-C4	ND	mg/kg	0.5	11/16-12/04/06	89.77	N	R	ND	0.56	1.00
JJFQQ-1-CF	ND	mg/kg	0.5	11/16-12/04/06	91.80	N	R	ND	0.54	1.00
JLA64-1-AA	ND	mg/kg	0.5	11/16-12/04/06	.00		R	ND	0.50	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JLA64-1-AD		20	17.698 N	88.49	11/16-12/04/06	(90-110)	1.00
JLA64-1-AC		5.0	4.45 N	89.00	11/16-12/04/06	(90-110)	1.00

Notes:
N Spiked analyte recovery is outside stated control limits.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

STL St. Louis Laboratory
Cyanide Method 335.4/9012B

Analyst: houghc

Prep Date: 11/16/2004

Batch No.: 6320310

Analysis Filename: cn120406

Analysis Date: 12/4/2006

Laboratory ID	Standard Conc. ug/L	Raw Value ug/L	Dilution	Sample Volume Liter (Nom. 0.050L)	Sample Volume Gram (Nom. 1 g)	Scrubber Volume, L (Nom. 0.05L)	Combined Prep Factor	Final Concentration as CN ug/L	Final Concentration as CN mg/Kg *	Percent Recovery	RPD
JJFPD		1.54	1		1	0.05	0.05		0.077		
JJFQH		0	1		1	0.05	0.05		0		
JJFQQ		0.33	1		1	0.05	0.05		0.0165		
JJCG6		2.99	1		1	0.05	0.05		0.1495		
JJCH3		0	1		1	0.05	0.05		0		
JJCJT		1.78	1		1	0.05	0.05		0.089		
JJCJ4		1.54	1		1	0.05	0.05		0.077		
JJCKC		2.03	1		1	0.05	0.05		0.1015		
JJCKX		2.27	1		1	0.05	0.05		0.1135		
JJCPW		0.57	1		1	0.05	0.05		0.0285		
JJCP7		1.3	1		1	0.05	0.05		0.065		
JH7XJ		1.3	1		1	0.05	0.05		0.065		
JJCQG		1.06	1		1	0.05	0.05		0.053		
JJCQ2		2.27	1		1	0.05	0.05		0.1135		
JJCQ5		0.82	1		1	0.05	0.05		0.041		
BLK		0	1		1	0.05	0.05		0		
LCS		89.28	1		1	0.05	0.05		4.464		
HCS		353.96	1		1	0.05	0.05		17.698		
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				

Control Limits (Water/Soil): LCS = 90 - 110; RPD 20%

Control Limits (Water/Soil): MS = 90 - 110; RPD (water) 20%, (soil) 30%

SOP	Rev	Date
STL-WC-0002	5	2/28/06

$$\text{Cyanide, total ug/L (mg/Kg)} = \frac{\text{Raw Value X Dilution X Scrubber Volume (L)}}{\text{Sample Volume (L,G)}}$$

 # Results are raw calcuation and do not reflect rounding, requested significant figures, or client reporting limits.

*** Results on spreadsheet are "wet weight".**

File: Slsvr01\Wet Chem Results\6320310 Cyanide.xls, modified 10/16/06

RQC050 Severn Trent Laboratories, Inc. Run Date: 1/19/07
WET CHEM BATCHSHEET Time: 12:54:43

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6320553** INITIALS: DATA ENTRY:
PREP DATE: 11/16/06 PREP _____ INITIALS _____
COMP DATE: 12/06/06 ANAL _____ DATE _____
USER: HOUGHC

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JHXV2-1-CM	F-6K030310-004	XX I 06 QP 01	Y-D		FB110206
JHXXL-1-CU	F-6K030310-005	XX I 06 QP 01	Y-D		EB110206
JH5J0-1-CM	F-6K070276-008	XX I 06 QP 01	Y-D		GWSA2
JH5KL-1-CP	F-6K070276-010	XX I 06 QP 01	Y-D		EB110606
JH7LQ-1-CM	F-6K080215-001	XX I 06 QP 01	Y-D		EB110706
JH7NQ-1-CT	F-6K080215-002	XX I 06 QP 01	Y-D		GWSA9
JH7P8-1-CT	F-6K080215-003	XX I 06 QP 01	Y-D		GWSA10
JJCD1-1-CK	F-6K090232-003	XX I 06 QP 01	Y-D		GWSA15
JJCER-1-CK	F-6K090232-004	XX I 06 QP 01	Y-D		EB110806
JLQCL-1-AA	F-6K160000-553-B	XX I 06 QP 01			INTRA-LAB BLANK
JLQCL-1-AD	F-6K160000-553-C	XX I 06 QP 01			INTRA-LAB CHECK
JLQCL-1-AC	F-6K160000-553-C	XX I 06 QP 01			INTRA-LAB CHECK

Control Limits

(90-110)

(90-110)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch 6320553

Date 1/19/2007
Time 13:55:53

Method Code: Cyanide, Total
Analyst: Chris Hough

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JHXV2-1-CM	ND	ug/L	5	11/16-12/04/06	.00	N	R	ND	5.0	1.00
JHXXL-1-CU	ND	ug/L	5	11/16-12/04/06	.00	N	R	ND	5.0	1.00
JH5J0-1-CM	ND	ug/L	5	11/16-12/04/06	.00	N	R	ND	5.0	1.00
JH5KL-1-CP	ND	ug/L	5	11/16-12/04/06	.00	N	R	ND	5.0	1.00
JH7LQ-1-CM	ND	ug/L	5	11/16-12/04/06	.00	N	R	ND	5.0	1.00
JH7NQ-1-CT	ND	ug/L	5	11/16-12/04/06	.00	N	R	ND	5.0	1.00
JH7P8-1-CT	ND	ug/L	5	11/16-12/04/06	.00	N	R	ND	5.0	1.00
JJCD1-1-CK	ND	ug/L	5	11/16-12/04/06	.00	N	R	ND	5.0	1.00
JJCER-1-CK	ND	ug/L	5	11/16-12/04/06	.00	N	R	ND	5.0	1.00
JLQCL-1-AA	ND	ug/L	5	11/16-12/04/06	.00		R	ND	5.0	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JLQCL-1-AD		400	413.72	103.43	11/16-12/04/06	(90-110)	1.00
JLQCL-1-AC		100	77 N	77.00	11/16-12/04/06	(90-110)	1.00

Notes:
N Spiked analyte recovery is outside stated control limits.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

SEVERN TRENT STL

STL St. Louis

CN^- DISTILLATION

Due Dates: Earliest: 11/26 Latest: 11/29	Analyst/Run Date: 11-27-06
Method #/Name: CN^- / 9012A	
Batch #: 633/214	
Lot #s: FLK110180, FLK140246, FLK140289, FLK150251,	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume	FINAL VOLUME	Interference Check Performed?	COMMENTS
1	BLK	1g	50ml		
2	LCS				
3	JJJHE	~~NOT NEEDED~~			
4	JJJHF				
5	JJNEQ				
6	JJNF1				
7	JJNF4				
8	JJNF9				
9	JJNGF				
10	JJNGH				
11	JJN9D				
12	JJN92				
13	JJN93				
14	JJ810				
15	JJ810S				
16		~~Not used~~			
17	JJ810X	1g	50ml		
18	JJ83H				
19	JJ834				
20	JJ848				
21					
22		~~Not used~~			
23					
24					

Analyst/Date: Reviewer/Date:

SEVERN TRENT STL

STL St. Louis

DISTILLATION SHEET/EXTRACT CHAIN OF CUSTODY

Analysis: GN

Method No.:

Prep Date: 11-16-06

Analyst: DT

Batch No.: 1330310

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume	FINAL VOLUME	Interference Check Performed?	COMMENTS
1	BLK	1g 50ml	50ml		
2	LCS	↓			
3	~~LCSD~~ MS				
4	JH7X5	1g			
5	JJCG6				
6	JJCH3				
7	JJCJT				
8	JJCJ4				
9	JJCKC				
10	JJCKX				
11	JJCPW				
12	JJCP7				
13	JJCQ6				
14	JJCQ2				
15	JJCQ5				
~~16~~ 17	JJFPD				
~~17~~ 18	JJFQH				
~~18~~ 19	JJFQQ				
~~19~~	JJFQ1	↓	↓		
20					
21					
22					
23					
24					
25					

SEVERN TRENT STL

STL St. Louis

DISTILLATION SHEET/EXTRACT CHAIN OF CUSTODY

Analysis: CN

Prep Date: 11/6/06

Batch No.: 6320553

Method No.:

Analyst:

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume	FINAL VOLUME	Interference Check Performed?	COMMENTS
1	BLK	50ml	50ml		
2	LCS				
3	HCS				
4	JHXV2				
5	JHXXL				
6	JH5JO				
7	JH5KL				
8	JH7LQ				
9	JH7NQ				
10	JH7P8				
11	JJCD1				
12	JJCER	↓	↓		
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

Page: 1

Order of Fit: First
Coefs: 1st: -2.326978 2nd: 9.896658

Report Date: 12/4/06
Analysis Date: 12/4/06
Data File: CN120406
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.999498
Corr: 0.999749
Std. Dev.: 4.690105

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
1	P			472.57		12:16:25
2	W			0.00	zI	12:17:39
3	S1			0.00	szI	12:18:54
4	S2			2.75	sI	12:20:09
5	S3			19.91	s	12:21:24
6	S4			108.60	s	12:22:40
7	S5			246.12	s	12:23:55
8	S6			300.49	s	12:25:10
9	S7			395.23	s	12:26:25
10	S8			503.50	ds	12:27:40
11	ICV			211.56/200	106%	12:28:55
12	ICB			0.00<5	zI	12:30:10
13	BLK			0.00<5	zI	12:31:25
14	LCS			89.28/100	89%	12:32:41
15	HCS			353.96	88%	12:33:56
16	JJFPD1CX ✓	6320310	Sampled 11/9 FGK100205 003	1.54	I	12:35:11
17	JJFQH1C4 ✓		-004	0.00	zI	12:36:26
18	JJFQQ1CF ✓		-005	0.33	I	12:37:41
19	JJCG61C0 ✓			2.99	I	12:38:56
20	JJCH31CA ✓		Reported the batch from run on 12/15/06	0.00	-zRI	12:40:11
21	JJCJT1CG ✓			1.78	I	12:41:26
22	JJCJ41CJ ✓		R/R.d	1.54	I	12:42:41
23	CCV			247.19/250	99%	12:43:56
24	CCB			0.00<5	zI	12:45:11
25	JJCKC1CJ ✓			2.03	I	12:46:27
26	JJCKX1CL ✓			2.27		12:47:43
27	JJCPW1CJ ✓			0.57	I	12:48:58
28	JJCP71CN ✓			1.30	I	12:50:13
29	JH7XJ1CW ✓			1.30	I	12:51:28
30	JJCQG1CU ✓			1.06	I	12:52:43
31	JJCQ21CV ✓			2.27	I	12:53:58
32	JJCQ51CW ✓			0.82	I	12:55:13
33	BLK			2.75<5	I	12:56:28
34	LCS			77.49/100	77%	12:57:43
35	CCV			256.96/250	103%	12:58:58
36	CCB			0.00<5	zI	13:00:12
37	HCS			413.72/400	103%	13:01:27
38	JH7LQ1CM	6320553		3.72	I	13:02:42
39	JH7NQ1CT			2.27	I	13:03:57
40	JH7P81CT		Reported this batch from run on 12/13/06	0.00	zRI	13:05:12
41	JJCD11CK			0.00	zRI	13:06:27
42	JHXV21CM			1.30	I	13:07:42
43	JJCER1CK			1.06	I	13:08:58
44	JHXXL1CU			0.82	I	13:10:14
45	JH5J01CM			4.45		13:11:30

Page: 2

Order of Fit: First
Coefs: 1st: -2.326978 2nd: 9.896658

Report Date: 12/4/06
Analysis Date: 12/4/06
Data File: CN120406
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.999498
Corr: 0.999749
Std. Dev.: 4.690105

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
46	JH5KL1CP			2.03	I	13:12:44
47	CCV			252.46/250	101%	13:13:59
48	CCB			0.00 <5	zI	13:15:14
49	BLK			4.45		13:16:30
50	LCS			67.37/100	67%	13:17:45
51	JJCFA1AL			78.26		13:19:00
52	JJCFQ1AL			35.43		13:20:15
53	JJCFR1AL			66.40		13:21:30
54	JH7HH1AH			341.34		13:22:45
55	JH7HH1AL			536.91	R	13:24:00
56	JH7HH1AJ			318.13		13:25:15
57	BLK			2.27	I	13:26:30
58	CCV			249.16/250	100%	13:27:46
59	CCB			0.00 <5	zI	13:29:01
60	LCS			90.87/100	91%	13:30:16
61	JJJEQ1CX			3.72		13:31:33
62	JJJHD1C6			2.27	I	13:32:47
63	JJFQ11CJ			0.00	zRI	13:34:02
64	JJFQ11C3			0.82	I	13:35:17
65	JJFQ11C4			49.24/100		13:36:32
66	JJFRF1C4			1.06	I	13:37:46
67	JJFTR1CF			0.82	I	13:39:01
68	JJFV91CK			2.03	I	13:40:16
69	CCV			256.52/250	103%	13:41:31
70	CCB			0.00 <5	zI	13:42:46
71	JJFWM1CL			3.00	I	13:44:01
72	JJFWX1CL			0.09	I	13:45:16
73	JJFW81CR			0.00	zI	13:46:31
74	JJFXE1CX			0.00	zI	13:47:46
75	JJFXL1C2			0.00	zI	13:49:01
76	JJFXQ1CD			0.00	zI	13:50:16
77	BLK			0.00 <5	zI	13:51:31
78	LCS			0.34/100	0% I	13:52:47
79	JJNQD1AX			5.18		13:54:03
80	JJQ101CW			0.00	zI	13:55:18
81	CCV			250.32/250	100%	13:56:33
82	CCB			0.00 <5	zI	13:57:48
83	JJQ101EL			0.34	I	13:59:03
84	JJQ101EK			0.34	I	14:00:18
85	JJNQ21AX			0.34	I	14:01:33
86	JJNEQ1CV			0.00	zI	14:02:48
87	JJNQ31AX			0.34	I	14:04:03
88	JJQ3H1C4			0.00	zI	14:05:18
89	JJJHF1C6			0.00	zI	14:06:33
90	JJNF11C2			0.00	zI	14:07:48

~~Results~~
6325310
Reported from run on 12/13

6325305
Reported from run on 12/17

6331214
Reported from run on 12/13/06

Page: 3

Order of Fit: First
Coefs: 1st: -2.326978 2nd: 9.896658

Report Date: 12/4/06
Analysis Date: 12/4/06
Data File: CN120406
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.999498
Corr: 0.999749
Std. Dev.: 4.690105

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
91	JJQ341CF			0.00	zI	14:09:03
92	CCV			252.35 / 250	101%	14:10:19
93	CCB			0.00 <5	zI	14:11:34
94	JJNF41CD			0.10	I	14:12:49
95	JJQ4Q1CJ			0.00	zI	14:14:04
96	JJNF91CJ			0.58	I	14:15:19
97	JJNGF1CL			0.10	I	14:16:34
98	JJNGH1CN			0.00	zI	14:17:49
99	BLK			0.00 <5	zI	14:19:04
100	LCS			1.55 / 100	2% I	14:20:19
101	JJVAP1AJ			13.67		14:21:35
102	JJVAP1A0			10.04		14:22:51
103	JJVAP1AQ			14.16		14:24:07
104	CCV			257.05 / 250	103%	14:25:21
105	CCB			0.00 <5	zI	14:26:36
106	JJVAV1AJ			326.40		14:27:51
107	JJVCG1AJ			688.36	R	14:29:06
108	JJVCL1AJ			2.04	I	14:30:22
109	JJVCP1AJ			1.31	I	14:31:38
110	JJVCR1AJ			3.73		14:32:55
111	JJVCW1AJ			0.00	zI	14:34:09
112	JJVDF1AJ			1.80	I	14:35:23
113	JJ0C91AJ			1.55	I	14:36:37
114	JJVDM1AJ			698.70	R	14:37:52
115	JJ0DE1AJ			4.46	I	14:39:07
116	CCV			258.36 / 250	103%	14:40:22
117	CCB			1.55 <5	I	14:41:37
118	JJVD31AJ			1.07	I	14:42:52
119	JJ0DK1AJ			1.55	I	14:44:07
120	JJT4A1CN			0.00	zI	14:45:22
121	JJRAF1CQ			0.00	zI	14:46:37
122	BLK			0.00 <5	zI	14:47:52
123	LCS			51.52 / 100	52%	14:49:08
124	JJJHE1C6			0.10	I	14:50:23
125	JJJHE1C8			1.55	I	14:51:38
126	JJJHE1C7			55.41		14:52:53
127	CCV			259.67 / 250	104%	14:54:08
128	CCB			0.58 <5	I	14:55:23
129	D8			503.50	d	14:56:38
130	BLK			2.04	I	14:57:53

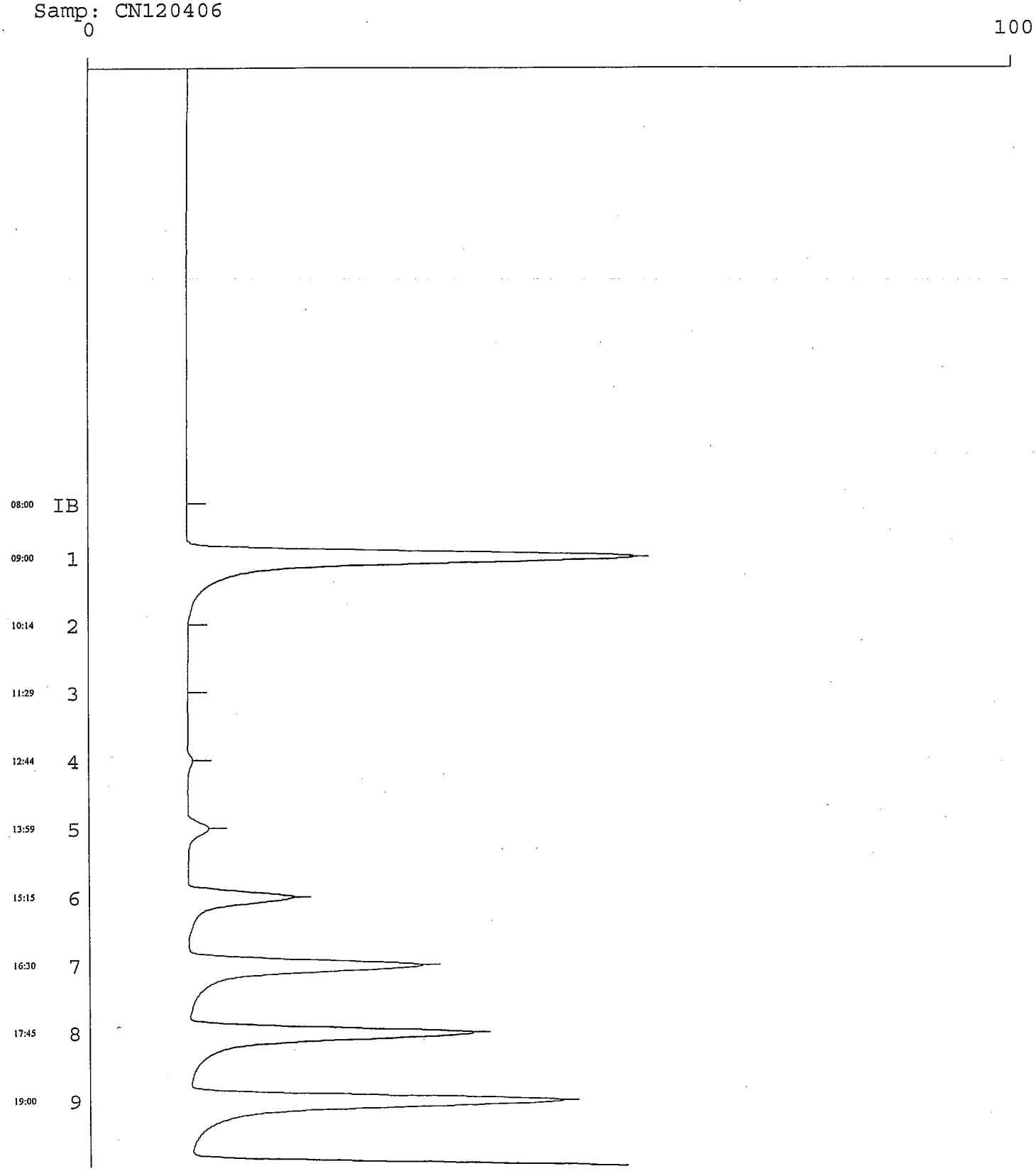
6333223
Reported this batch from run of 12/13/06

6331214
Reported from 12/13

12/4/2006 15:14

Page:1

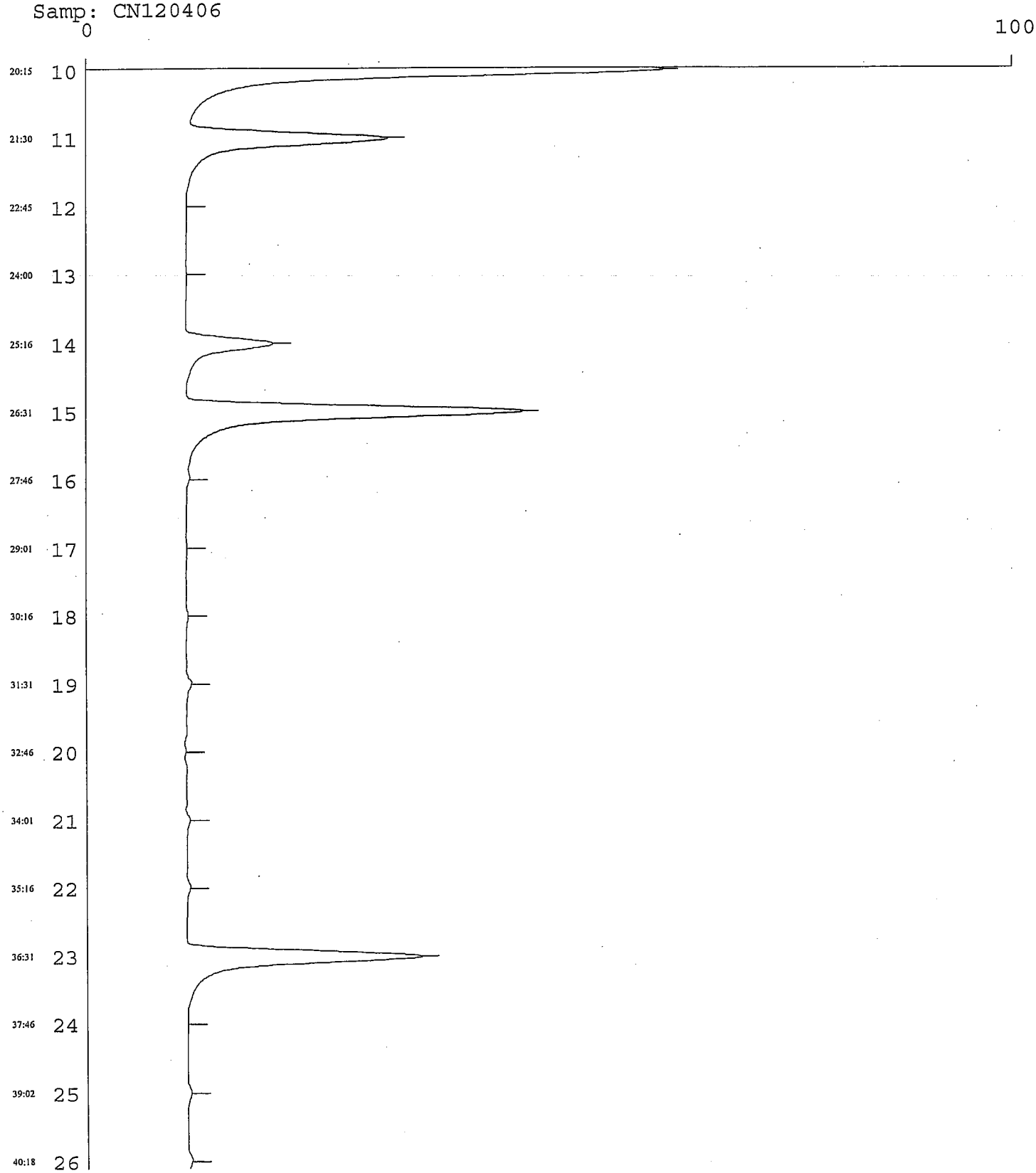
Data: CN120406
Mthd: CYANIDE
Samp: CN120406



12/4/2006 15:14

Page:2

Data: CN120406
Mthd: CYANIDE
Samp: CN120406



12/4/2006 15:14

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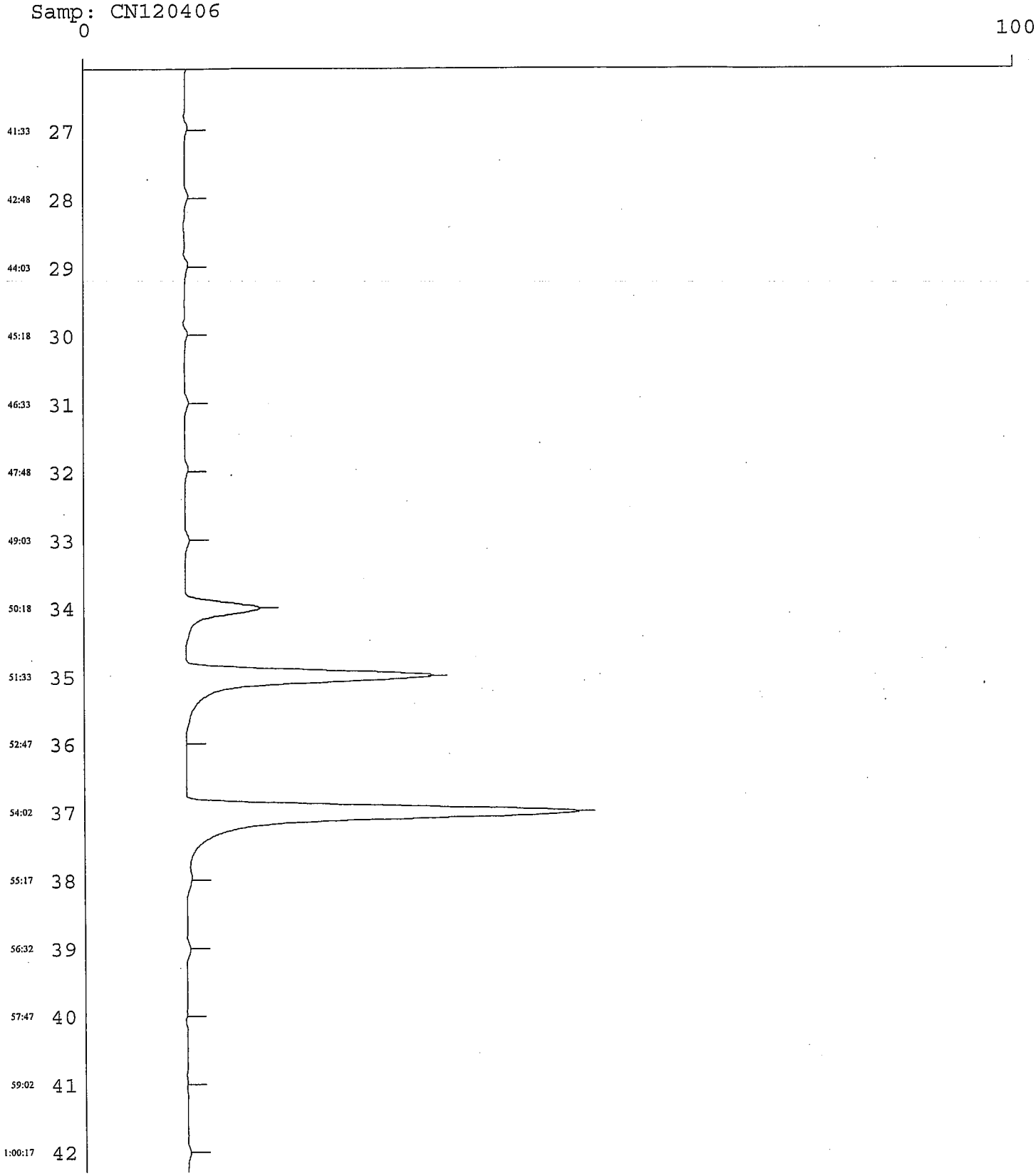
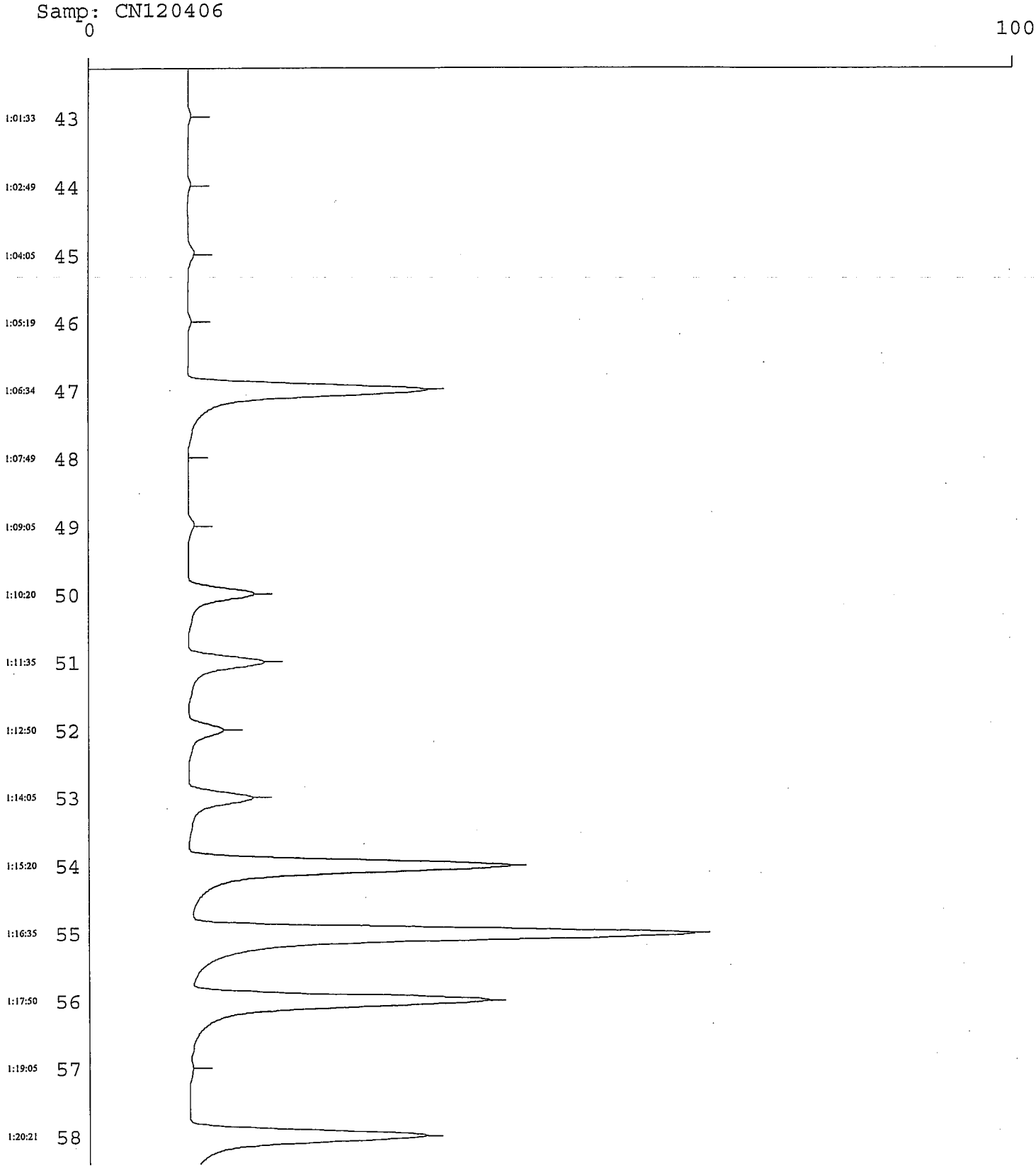
Mthd: CYANIDE
Samp: CN120406



12/4/2006 15:14

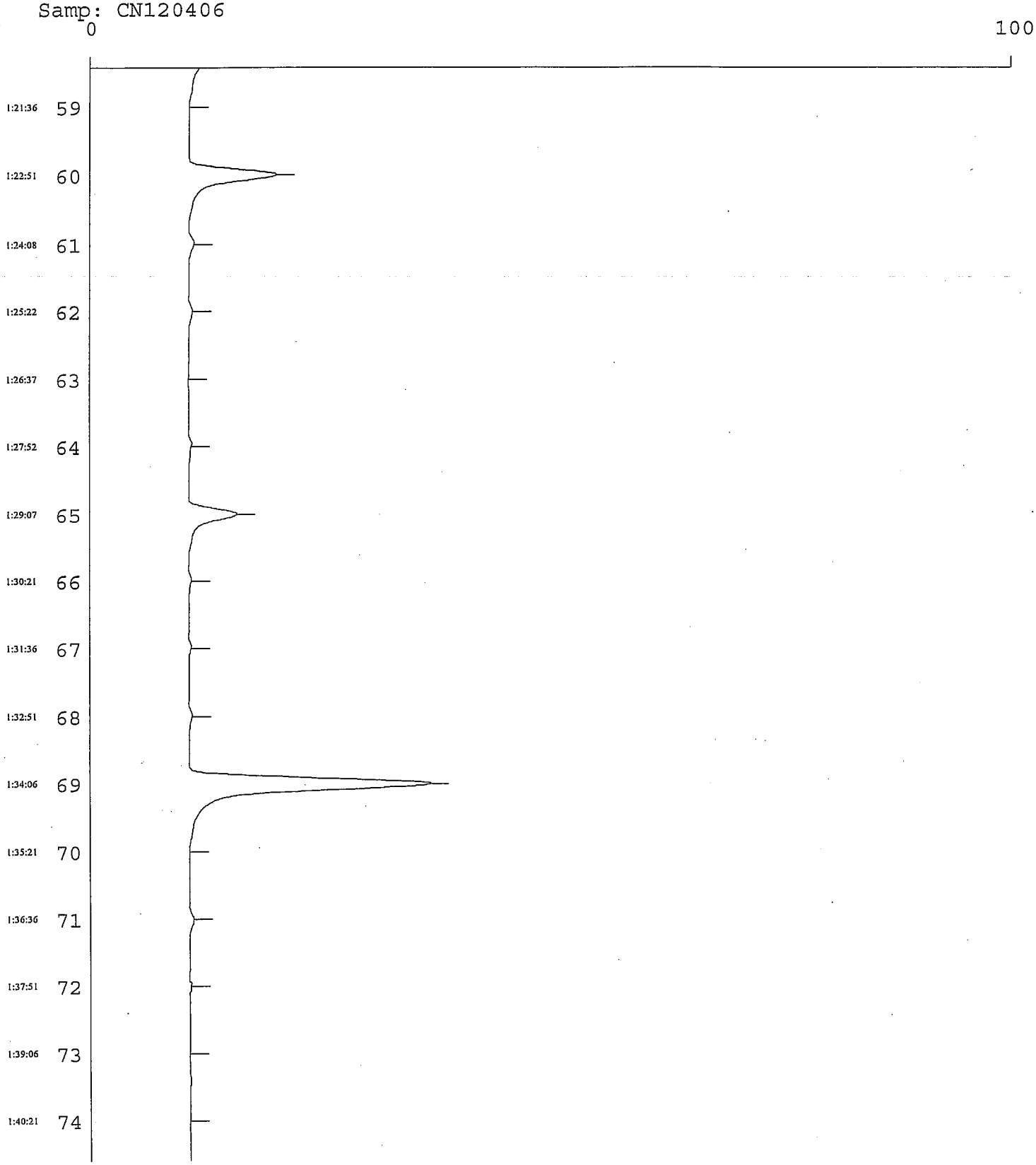
Page:4

Data: CN120406
Mthd: CYANIDE
Samp: CN120406



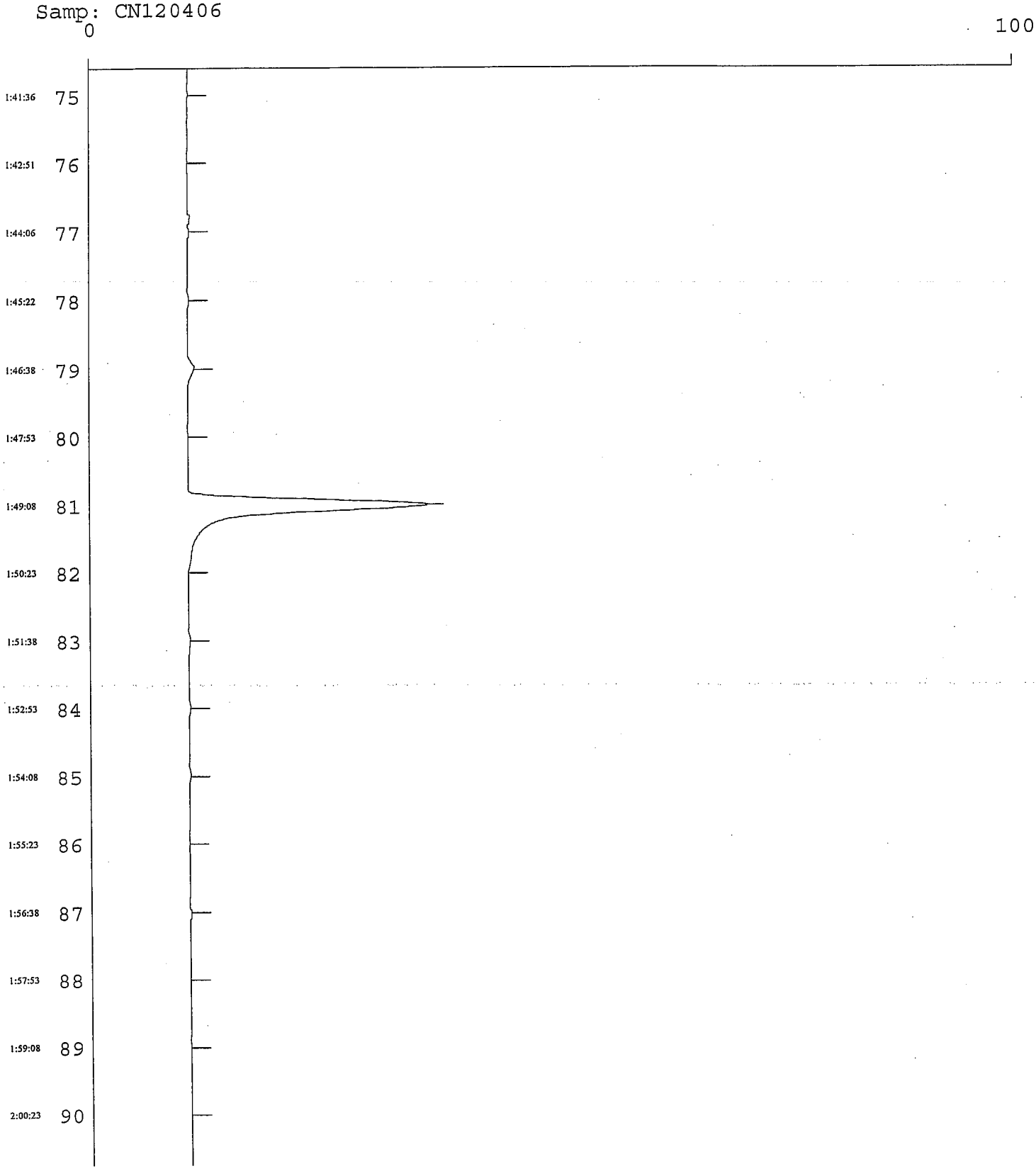
12/4/2006 15:14

Data: CN120406
Mthd: CYANIDE
Samp: CN120406



12/4/2006 15:14

Data: CN120406
Mthd: CYANIDE
Samp: CN120406



12/4/2006 15:14

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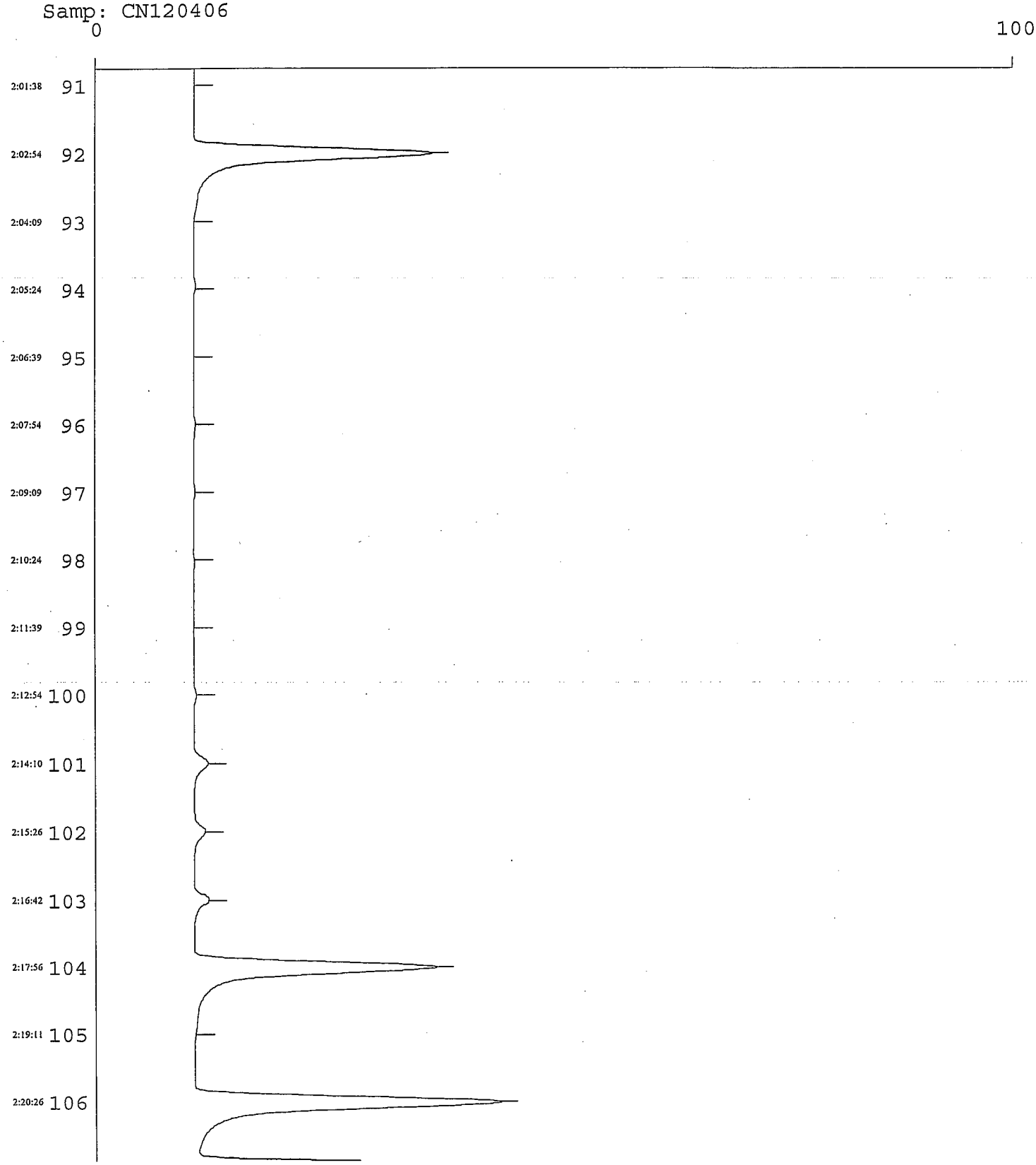
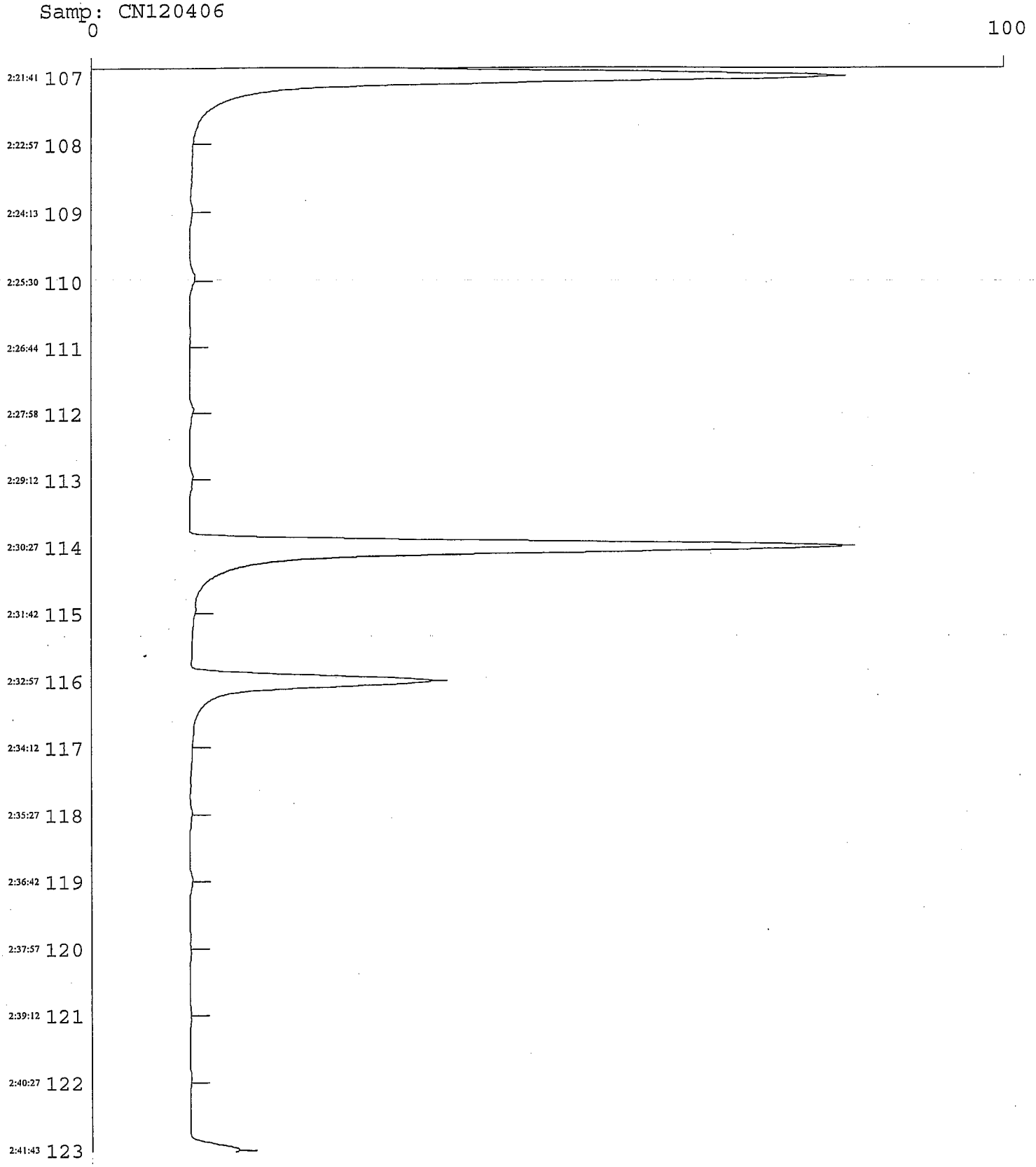
Mthd: CYANIDE
Samp: CN120406



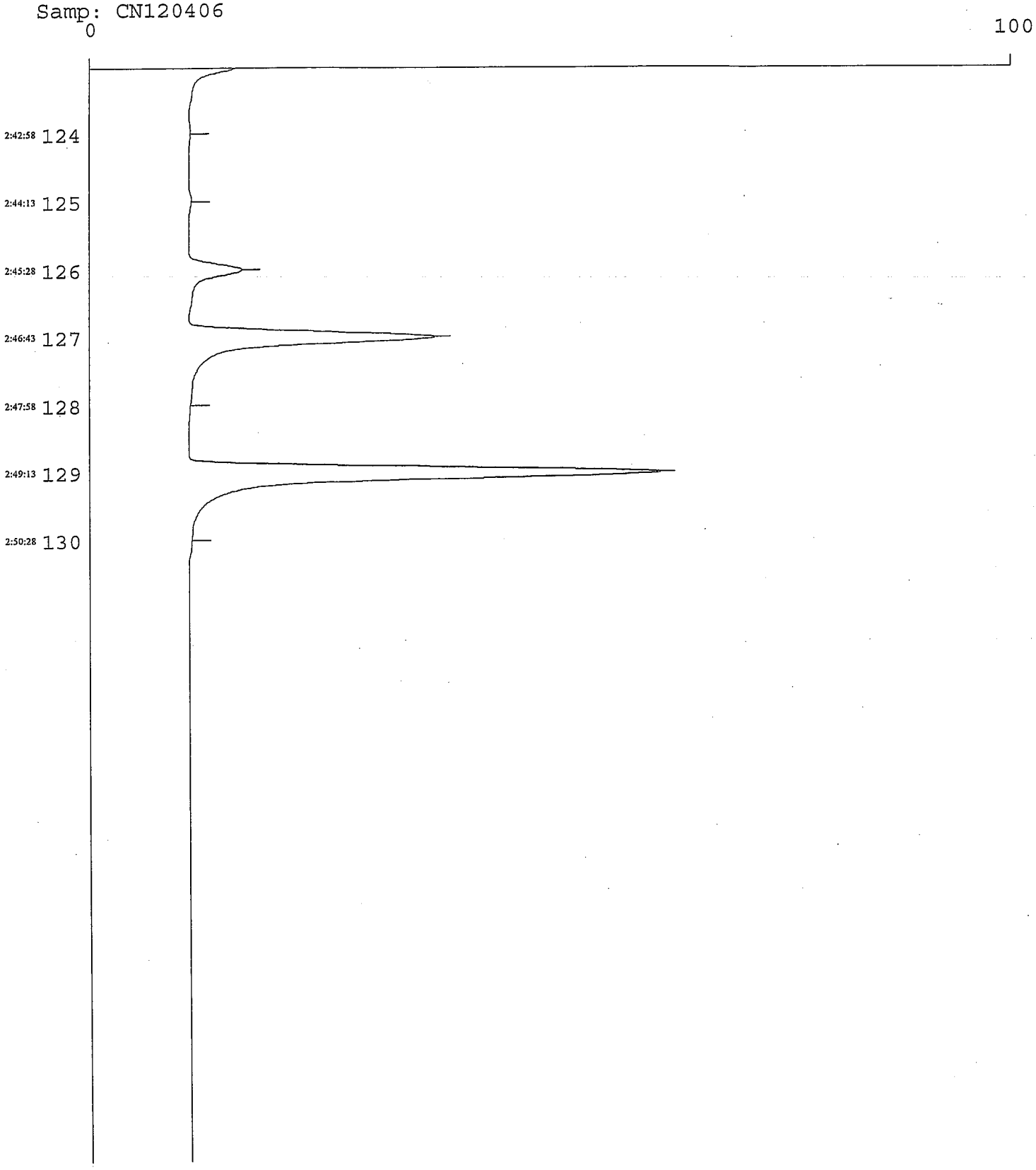
12/4/2006 15:14

Data: CN120406
Mthd: CYANIDE
Samp: CN120406



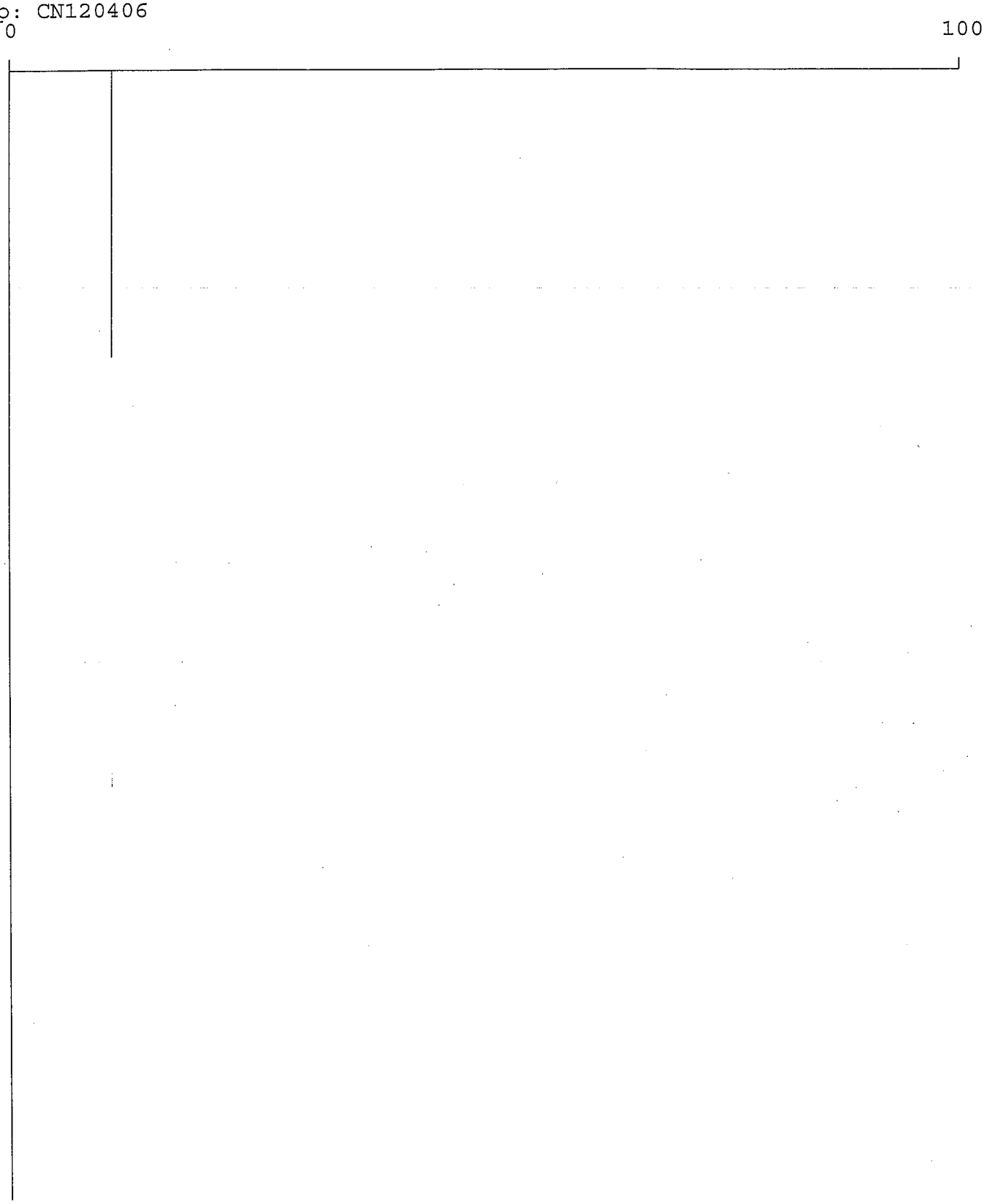
12/4/2006 15:14

Data: CN120406
Mthd: CYANIDE
Samp: CN120406



12/4/2006 15:14

Data: CN120406
Mthd: CYANIDE
Samp: CN120406



TRENT STL

Data Review Check List

Wet Chemistry

Due Dates: Earliest: Latest:	**Run Date:** 12-04-06
Method Name/#: CN 335.1, 335.2, 335.4, 9010B, 9012A, 4500	
Batch #: 6338185, 6338198, 6346474, 6333274, 6333327	
Lot #s: F6K180200, F6K210226, F6L020205, F6L050180, F6K160199, F6K170247,	
NCM's:	

Review Item	Yes	No	N/A	Review
Initial Calibration				
Initial Calibration data in this package?	X			✓
If not, please specify initial calibration date:				
Initial Calibration meets method acceptance criteria:	X			✓
Corr. Coefficient = 0.995; Y-intercept < the absolute value of the RL				
Is the low level standard = the reporting limit?	X			✓
Calibration Check (ICV)				
ICV performed with initial calibration?	X			✓
ICV meets method acceptance criteria (max. 10% D)?	X			✓
Continuing Calibration Verification (CCV)				
CCV performed at the prescribed frequency?	X			✓
CCV meets method acceptance criteria (max. 10% D)?	X			✓
Continuing Calibration Blank (CCB)				
CCB performed after every CCV?	X			✓
CCB meets method acceptance criteria?	X			✓
Criteria: < the absolute value of the Reporting Limit (see client sheet for				
Batch QC - Method Blanks				
Is a Method Blank required for this analysis?	X			✓
Is the method blank below the Reporting Limit for targets of interest?	X			✓
Batch QC - LCS				
Is a LCS required for this analysis?	X			✓
Are the LCS (LCSD) recoveries within method acceptance?		X		✓
Batch QC - MS/MSD				
Is a MS/MSD or MS/Sample Duplicate required for this analysis?	X			✓
Are the MS(MSD) recoveries within method acceptance?		X		✓
Batch QC - RPD				
MS/MSD or Sample/Sample Duplicate RPD within acceptance criteria		X		✓
Sample Results - Report				
Are samples bracketed by acceptable CCV/CCB?	X			✓
Are results within the calibration range?	X			✓
Was analysis performed within Hold Time?	X			✓
Did samples require dilution due to: (check one if applicable)		X		✓
matrix interference high target analyte concentration				
If dilutions were performed, was it within Hold Time?			X	
If dilutions were performed, are the undiluted runs in this submission?			X	
If not, please indicate where found:				
Sample Results - Misc. information				
Are Batch sheets, Preparation Logs (if applicable) included?	X			✓
Are copies of run logs included, initialed and dated?	X			✓
Were manual calculations performed? reviewer must check calculations		X		✓
Were manual integrations performed, dated, and initialed?		X		✓
Client requirement sheets followed in data package?	X			✓
Reagents and Standards documented on prep/batch sheets?	X			✓

Additional Comments:

Analyst/Date: DNT 01-23-07 **Reviewer/Date:** 1/23/07

SEVERN TRENT STL

STL St. Louis

CYANIDE DISTILLATION

Due Dates: Earliest: 12/1 Latest: 12/1 Hold	**Analyst/Run Date:** 12-13-06
Method #/Name: CN- / 9012, 9012A	**Sample Type:** (SOIL) WATER
Batch #: 6338185	
Lot #s: F6K180200	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	BLK	1g	50 ml	NA	NA	
2	LCS		50 ml			
3	HCS		50 ml			
4	JJ28J		50 ml			
5	JJ28J-D		50 ml			
6	JJ28J-S		50 ml			
7	JJ28P		50 ml			
8	JJ28V		50 ml			
9	JJ28W		50 ml			
10	JJ28X		50 ml			
11	JJ280		50 ml			
12	JJ282		50 ml			
13	JJ288		50 ml			
14	JJ29D		50 ml			
15	JJ29E		50 ml			
16						
~~17~~			50 ml			
18			50 ml			
19			50 ml			
~~20~~			50 ml			

Sent To TRAACS		YES	NO
	Distilled Cyanide Samples	✓	
	Client Requirement Sheets	✓	
	Quantums Batch Sheets	✓	
	Distillation Prep STDlog	✓	

Analyst/Date:	12-13-06
Reviewer/Date:	

RQC050 Severn Trent Laboratories, Inc. Run Date: 12/12/06
WET CHEM BATCHSHEET Time: 17:24:24

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6338185** INITIALS: DATA ENTRY:
PREP DATE: 12/14/06 PREP _____ INITIALS _____
COMP DATE: 12/14/06 ANAL _____ DATE _____
USER: THOMASD

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJ28J-1-C0	F-6K180200-004	XX A 06 QP 01	Y-D		SA8-0.5
JJ28J-1-E5	F-6K180200-004-D	XX A 06 QP 01	Y-D		SA8-0.5
JJ28J-1-E4	F-6K180200-004-S	XX A 06 QP 01	Y-D		SA8-0.5
JJ28P-1-CA	F-6K180200-005	XX A 06 QP 01	Y-D		SA8-10
JJ28V-1-CH	F-6K180200-006	XX A 06 QP 01	Y-D		SA8-20
JJ28W-1-CL	F-6K180200-007	XX A 06 QP 01	Y-D		SA8-30
JJ28X-1-CP	F-6K180200-008	XX A 06 QP 01	Y-D		SA8-37
JJ280-1-CW	F-6K180200-009	XX A 06 QP 01	Y-D		SA13-0.5
JJ282-1-C2	F-6K180200-010	XX A 06 QP 01	Y-D		SA13-0.5D
JJ288-1-CD	F-6K180200-011	XX A 06 QP 01	Y-D		SA13-10
JJ29D-1-CH	F-6K180200-012	XX A 06 QP 01	Y-D		SA13-20
JJ29E-1-CJ	F-6K180200-013	XX A 06 QP 01	Y-D		SA13-30
JJ29F-1-CK	F-6K180200-014	XX A 06 QP 01	Y-D		SA13-40
JJ29F-1-FK	F-6K180200-014-D	XX A 06 QP 01	Y-D		SA13-40
JJ29F-1-FJ	F-6K180200-014-S	XX A 06 QP 01	Y-D		SA13-40
JKP79-1-AA	F-6L040000-185-B	XX A 06 QP 01			INTRA-LAB BLANK
JKP79-1-AC	F-6L040000-185-C	XX A 06 QP 01			INTRA-LAB CHECK

Control Limits

(90-110)

(90-110)

(90-110)

(90-110)

(90-110)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch 6338185

Date 1/22/2007
Time 18:11:07

Method Code: Cyanide, Total
Analyst: Debbie Thomas

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JJ28J-1-C0	ND	mg/kg	0.5	12/13-12/20/06	95.21	N		ND	0.53	1.00
JJ28P-1-CA	ND	mg/kg	0.5	12/13-12/20/06	93.72	N		ND	0.53	1.00
JJ28V-1-CH	ND	mg/kg	0.5	12/13-12/20/06	95.33	N		ND	0.52	1.00
JJ28W-1-CL	ND	mg/kg	0.5	12/13-12/20/06	91.57	N		ND	0.55	1.00
JJ28X-1-CP	ND	mg/kg	0.5	12/13-12/20/06	73.44	N		ND	0.68	1.00
JJ280-1-CW	ND	mg/kg	0.5	12/13-12/20/06	85.91	N		ND	0.58	1.00
JJ282-1-C2	ND	mg/kg	0.5	12/13-12/20/06	90.37	N		ND	0.55	1.00
JJ288-1-CD	ND	mg/kg	0.5	12/13-12/20/06	95.68	N		ND	0.52	1.00
JJ29D-1-CH	ND	mg/kg	0.5	12/13-12/20/06	93.91	N		ND	0.53	1.00
JJ29E-1-CJ	ND	mg/kg	0.5	12/13-12/20/06	94.89	N		ND	0.53	1.00
JJ29F-1-CK	ND	mg/kg	0.5	12/13-12/20/06	79.29	N		ND	0.63	1.00
JKP79-1-AA	ND	mg/kg	0.5	12/13-12/20/06	.00			ND	0.50	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JKP79-1-AD		20.0	21.133	105.66	01/12-01/15/07	(90-110)	1.00
JKP79-1-AC		5.0	2.65 N	53.00	12/13-12/20/06	(90-110)	1.00

Notes:
N Spiked analyte recovery is outside stated control limits.

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Dil
JJ28J-1-E4		ND	5	5.2165	5.2515	104.33	105.03	.66	12/13-12/20/06	
JJ29F-1-FJ		ND	5	3.7005 N	4.806	74.01	96.12	25.99	12/13-12/20/06	

Notes:
Results and reporting limits have been adjusted for dry weight.
N Spiked analyte recovery is outside stated control limits.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

SEVERN TRENT STL

STL St. Louis

CYANIDE DISTILLATION

Due Dates: Earliest: 12/1 HOLD Latest: 12/4	**Analyst/Run Date:** DA 12-13-06 (2)
Method #/Name: CN- / 9012, 9012A	**Sample Type:** SOIL WATER
Batch #: 6338185, 6338198	148-15
Lot #s: F6K180200, F6K210224	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	JJ29F	1g	50 ml	NA	NA	
2	JJ29F-D		50 ml			
3	JJ29F-S		50 ml			
4	BLK		50 ml			
5	LCS		50 ml			
6	HCS		50 ml			
7	JJ6MX		50 ml			
8	JJ6MX-D		50 ml			
9	JJ6MX-S		50 ml			
10	JJ6Q4		50 ml			
11	JJ6Q4-D		50 ml			
12	JJ6Q4-S		50 ml			
13	JJ6RJ		50 ml			
14	JJ6RJ		50 ml			
15	JJ6TC	↓	50 ml	↓	↓	
16	==========	==========	==========	==========	==========	==========
17	JJ8P5	↓	50 ml	↓	↓	
18			50 ml			
19			50 ml			
20			50 ml			

Sent To TRAACS		YES	NO
	Distilled Cyanide Samples	X	
	Client Requirement Sheets	X	
	Quantums Batch Sheets	X	
	Distillation Prep STDlog	X	

Analyst/Date: DA 12-13-06

Reviewer/Date:

SEVERN TRENT **STL**

Barcode Report for Batch #: 6338198

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

15

Lot Number	WorkOrder No
F6K210226-001	JJ6MX
F6K210226-001D	JJ6MXD
F6K210226-001S	JJ6MXS
F6K210226-002	JJ6Q4
F6K210226-002D	JJ6Q4D
F6K210226-002S	JJ6Q4S
F6K210226-003	JJ6RJ
F6K210226-004	JJ6R1
F6K210226-005	JJ6TC
F6K210226-006	JJ8P5
F6K210226-007	JJ8QK
F6K210226-007D	JJ8QKD
F6K210226-007S	JJ8QKS
F6K210226-008	JJ8V6
F6K210226-009	JJ8WC
F6L040000-198B	JKP91B
F6L040000-198C	JKP91C

RQC050 Severn Trent Laboratories, Inc. Run Date: 12/12/06
WET CHEM BATCHSHEET Time: 17:25:07

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6338198** INITIALS: DATA ENTRY:
PREP DATE: 12/14/06 PREP _____ INITIALS _____
COMP DATE: 12/14/06 ANAL _____ DATE _____
USER: THOMASD

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJ6MX-1-C0	F-6K210226-001	XX A 06 QP 01	Y-D		SA7-0.5
JJ6MX-1-E5	F-6K210226-001-D	XX A 06 QP 01	Y-D		SA7-0.5
JJ6MX-1-E4	F-6K210226-001-S	XX A 06 QP 01	Y-D		SA7-0.5
JJ6Q4-1-CA	F-6K210226-002	XX A 06 QP 01	Y-D		SA7-10
JJ6Q4-1-FJ	F-6K210226-002-D	XX A 06 QP 01	Y-D		SA7-10
JJ6Q4-1-FH	F-6K210226-002-S	XX A 06 QP 01	Y-D		SA7-10
JJ6RJ-1-CH	F-6K210226-003	XX A 06 QP 01	Y-D		SA7-10D
JJ6R1-1-CL	F-6K210226-004	XX A 06 QP 01	Y-D		SA7-20
JJ6TC-1-CP	F-6K210226-005	XX A 06 QP 01	Y-D		SA7-30
JJ8P5-1-CT	F-6K210226-006	XX A 06 QP 01	Y-D		SA7-34
JJ8QK-1-CA	F-6K210226-007	XX A 06 QP 01	Y-D		SA26-0.5
JJ8QK-1-FT	F-6K210226-007-D	XX A 06 QP 01	Y-D		SA26-0.5
JJ8QK-1-FR	F-6K210226-007-S	XX A 06 QP 01	Y-D		SA26-0.5
JJ8V6-1-CH	F-6K210226-008	XX A 06 QP 01	Y-D		SA26-0.5D
JJ8WC-1-CP	F-6K210226-009	XX A 06 QP 01	Y-D		SA26-10
JKP91-1-AA	F-6L040000-198-B	XX A 06 QP 01			INTRA-LAB BLANK
JKP91-1-AC	F-6L040000-198-C	XX A 06 QP 01			INTRA-LAB CHECK

Control Limits

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6338198**

Date 1/22/2007
Time 18:11:27

Method Code: **Cyanide, Total**
Analyst: **Debbie Thomas**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JJ6MX-1-C0	ND	mg/kg	0.5	12/13-12/20/06	94.69	N		ND	0.53	1.00
JJ6Q4-1-CA	ND	mg/kg	0.5	12/13-12/20/06	94.35	N		ND	0.53	1.00
JJ6RJ-1-CH	ND	mg/kg	0.5	12/13-12/20/06	92.92	N		ND	0.54	1.00
JJ6R1-1-CL	ND	mg/kg	0.5	12/13-12/20/06	92.37	N		ND	0.54	1.00
JJ6TC-1-CP	ND	mg/kg	0.5	12/13-12/20/06	93.72	N		ND	0.53	1.00
JJ8P5-1-CT	ND	mg/kg	0.5	12/13-12/20/06	76.66	N		ND	0.65	1.00
JJ8QK-1-CA	ND	mg/kg	0.5	12/13-12/20/06	92.95	N		ND	0.54	1.00
JJ8V6-1-CH	ND	mg/kg	0.5	12/13-12/20/06	91.26	N		ND	0.55	1.00
JJ8WC-1-CP	ND	mg/kg	0.5	12/13-12/20/06	89.12	N		ND	0.56	1.00
JKP91-1-AA	ND	mg/kg	0.5	12/13-12/20/06	.00			ND	0.50	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JKP91-1-AD		20.0	20.6955	103.47	01/12-01/15/07	(90-110)	1.00
JKP91-1-AC		5.0	4.3 N	86.00	12/13-12/20/06	(90-110)	1.00

Notes:
N Spiked analyte recovery is outside stated control limits.

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Dil
JJ6MX-1-E4		ND	5	4.8605		97.21	.00	.00	12/13-12/20/06	
JJ6Q4-1-FH		ND	5	3.801 N	3.5105	76.02	70.21	7.94	12/13-12/20/06	
JJ8QK-1-FR		ND	5	3.299 N	5.242	65.98	104.84	45.49	12/13-12/20/06	

Notes:
Results and reporting limits have been adjusted for dry weight.
N Spiked analyte recovery is outside stated control limits.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

SEVERN TRENT STL — STL St. Louis

CYANIDE DISTILLATION

Due Dates: Earliest: 12/4 HOLD Latest: 12/18	**Analyst/Run Date:** DA 12-13-06 (3)
Method #/Name: CN- / 9012, 9012A	**Sample Type:** (SOIL) (WATER)
Batch #: 6338198, 6346474	
Lot #s: FGK210226, FGL020205	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	JJ8QK	1g	50 ml	NA	NA	
2	JJ8QK-D	↓	50 ml	↓	↓	
3	JJ8QK-S		50 ml			
4	JJ8V6		50 ml			
5	JJ8WC	↓	50 ml	↓	↓	
6	B/K	50ml	50 ml	↓	↓	
7	LCS	↓	50 ml	↓	↓	
8	HCS		50 ml			
9	JKPNX		50 ml			
10	JKPN2		50 ml			
11	JKPN5		50 ml			
12	JKPN5-D		50 ml			
13	JKPN5-S		50 ml			
14	JKR62		50 ml			
15	JKR7D	↓	50 ml	↓	↓	
16	==========	==========	==========	==========	==========	==========
17			50 ml			
18			50 ml			
19			50 ml			
20			50 ml			

Sent To TRAACS		YES	NO
	Distilled Cyanide Samples	X	
	Client Requirement Sheets	X	
	Quantums Batch Sheets	X	
	Distillation Prep STDlog	X	

Analyst/Date: DA 12-13-06

Reviewer/Date:

RQC050 Severn Trent Laboratories, Inc. Run Date: 1/10/07
WET CHEM BATCHSHEET Time: 14:41:24

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6346474** INITIALS: DATA ENTRY:
PREP DATE: 12/22/06 PREP _____ INITIALS _____
COMP DATE: 12/22/06 ANAL _____ DATE _____
USER: HOUGHC

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JKPNX-1-CT	F-6L020205-004	XX I 06 QP 01	Y-D	_____	EB120106
JKPN2-1-CT	F-6L020205-005	XX I 06 QP 01	Y-D	_____	M13
JKPN5-1-CT	F-6L020205-006	XX I 06 QP 01	Y-D	_____	IAR
JKPN5-1-GG	F-6L020205-006-D	XX I 06 QP 01	Y-D	_____	IAR
JKPN5-1-GF	F-6L020205-006-S	XX I 06 QP 01	Y-D	_____	IAR
JKR62-1-CK	F-6L050180-001	XX I 06 QP 01	Y-D	_____	M76
JKR7D-1-CN	F-6L050180-002	XX I 06 QP 01	Y-D	_____	M100
JLA92-1-AA	F-6L120000-474-B	XX I 06 QP 01		_____	INTRA-LAB BLANK
JLA92-1-AD	F-6L120000-474-C	XX I 06 QP 01		_____	INTRA-LAB CHECK
JLA92-1-AC	F-6L120000-474-C	XX I 06 QP 01		_____	INTRA-LAB CHECK

J's created for 7012142 from 12/29

Control Limits

(90-110)

(90-110)

(90-110)

(90-110)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6346474**

Date 1/22/2007
Time 18:11:46

Method Code: **Cyanide, Total**
Analyst: **Debbie Thomas**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JKPNX-1-CT	ND	ug/L	5	12/13-12/20/06	.00	N	R	ND	5.0	1.00
JKPN2-1-CT	ND	ug/L	5	12/13-12/20/06	.00	N	R	ND	5.0	1.00
JKPN5-1-CT	ND	ug/L	5	12/13-12/20/06	.00	N	R	ND	5.0	1.00
JKR62-1-CK	ND	ug/L	5	12/22-01/05/07	.00	N	R	ND	5.0	1.00
JKR7D-1-CN	ND	ug/L	5	12/22-01/05/07	.00	N	R	ND	5.0	1.00
JLA92-1-AA	ND	ug/L	5	12/13-12/20/06	.00		R	ND	5.0	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JLA92-1-AD		400	378.14	94.53	12/22-01/05/07	(90-110)	1.00
JLA92-1-AC		100	88 N	88.00	12/13-12/20/06	(90-110)	1.00

Notes:
N Spiked analyte recovery is outside stated control limits.

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	DUP	RPD	Prep. - Anal.	Dil
JKPN5-1-GF		ND	100	40.59 N	ND	40.59	.00	200.00	12/13-12/20/06	

Notes:
N Spiked analyte recovery is outside stated control limits.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

SEVERN TRENT STL — STL St. Louis

CYANIDE DISTILLATION

Due Dates: Earliest: 11/29 (HOLD) Latest:	**Analyst/Run Date:** 12-13-06 (14)
Method #/Name: CN- / 9012, 9012A	**Sample Type:** (SOIL) WATER
Batch #: 6333274	
Lot #s: A6K160199	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	BLK	1g	50 ml	NA	NA	
2	LCS		50 ml			
3	HCS		50 ml			
4	JJT4R		50 ml			
5	JJT44		50 ml			
6	JJT47		50 ml			
7	JJT5C		50 ml			
8	JJT5K		50 ml			
9	JJT5Q		50 ml			
10	JJT55		50 ml			
11	JJT58		50 ml			
12	JJT64		50 ml			
13	JJT7F		50 ml			
14	JJT7Q		50 ml			
15	JJT8N		50 ml			
16						
17	JJT87		50 ml			
18	JJT9D		50 ml			
~~19~~			~~50 ml~~			
~~20~~			~~50 ml~~			

Sent To TRAACS		YES	NO
	Distilled Cyanide Samples	X	
	Client Requirement Sheets	X	
	Quantums Batch Sheets	X	
	Distillation Prep STDlog	X	

Analyst/Date:	12-13-06 (14)
Reviewer/Date:	

SEVERN TRENT STL

Barcode Report for Batch #: 6333274

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

(10)

Lot Number	WorkOrder No
F6K160199-002	JJT4R
F6K160199-003	JJT44
F6K160199-004	JJT47
F6K160199-005	JJT5C
F6K160199-006	JJT5K
F6K160199-007	JJT5Q
F6K160199-008	JJT55
F6K160199-009	JJT58
F6K160199-010	JJT66
F6K160199-011	JJT7F
F6K160199-012	JJT7Q
F6K160199-013	JJT8N
F6K160199-014	JJT87
F6K160199-015	JJT9D
F6K170247-001	JJ0QP
F6K170247-001D	JJ0QPD
F6K170247-001S	JJ0QPS
F6K290000-274B	JKGRKB
F6K290000-274C	JKGRKC

RQC050 Severn Trent Laboratories, Inc. Run Date: 12/12/06
WET CHEM BATCHSHEET Time: 15:59:20

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: **6333274** INITIALS: DATA ENTRY:
PREP DATE: 12/13/06 PREP _____ INITIALS _____
COMP DATE: 12/13/06 ANAL _____ DATE _____
USER: THOMASD

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJT4R-1-CW	F-6K160199-002	XX A 06 QP 01	Y-D		SA17-0.5
JJT44-1-C2	F-6K160199-003	XX A 06 QP 01	Y-D		SA17-0.5D
JJT47-1-CD	F-6K160199-004	XX A 06 QP 01	Y-D		SA17-10
JJT5C-1-CG	F-6K160199-005	XX A 06 QP 01	Y-D		SA17-20
JJT5K-1-CH	F-6K160199-006	XX A 06 QP 01	Y-D		SA17-25
JJT5Q-1-CJ	F-6K160199-007	XX A 06 QP 01	Y-D		SA18-0.5
JJT55-1-CM	F-6K160199-008	XX A 06 QP 01	Y-D		SA18-0.5D
JJT58-1-CQ	F-6K160199-009	XX A 06 QP 01	Y-D		SA18-10
JJT66-1-CR	F-6K160199-010	XX A 06 QP 01	Y-D		SA18-20
JJT7F-1-CT	F-6K160199-011	XX A 06 QP 01	Y-D		SA18-30
JJT7Q-1-C2	F-6K160199-012	XX A 06 QP 01	Y-D		SA21-0.5
JJT8N-1-CD	F-6K160199-013	XX A 06 QP 01	Y-D		SA21-10
JJT87-1-CJ	F-6K160199-014	XX A 06 QP 01	Y-D		SA21-20
JJT9D-1-CK	F-6K160199-015	XX A 06 QP 01	Y-D		SA21-20D
JJ0QP-1-C3	F-6K170247-001	XX A 06 QP 01	Y-D		SA22-0.5
JJ0QP-1-E9	F-6K170247-001-D	XX A 06 QP 01	Y-D		SA22-0.5
JJ0QP-1-E8	F-6K170247-001-S	XX A 06 QP 01	Y-D		SA22-0.5
JKGRK-1-AA	F-6K290000-274-B	XX A 06 QP 01			INTRA-LAB BLANK

RQC050 Severn Trent Laboratories, Inc. Run Date: 12/12/06
WET CHEM BATCHSHEET Time: 15:59:20

STL St. Louis

QC BATCH #: **6333274** INITIALS: DATA ENTRY:
PREP DATE: 12/13/06 PREP _____ INITIALS _____
COMP DATE: 12/13/06 ANAL _____ DATE _____
USER: THOMASD

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JKGRK-1-AC	F-6K290000-274-C	XX A 06 QP 01		_____	INTRA-LAB CHECK

Control Limits

(90-110)

(90-110)

(90-110)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6333274**

Date 1/19/2007
Time 16:44:17

Method Code: **Cyanide, Total**
Analyst:**Debbie Thomas**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JJT4R-1-CW	ND	mg/kg	0.5	12/14-12/20/06	85.33	N		ND	0.59	1.00
JJT44-1-C2	ND	mg/kg	0.5	12/14-12/20/06	86.55	N		ND	0.58	1.00
JJT47-1-CD	ND	mg/kg	0.5	12/14-12/20/06	87.91	N		ND	0.57	1.00
JJT5C-1-CG	ND	mg/kg	0.5	12/14-12/20/06	94.25	N		ND	0.53	1.00
JJT5K-1-CH	ND	mg/kg	0.5	12/14-12/20/06	80.97	N		ND	0.62	1.00
JJT5Q-1-CJ	ND	mg/kg	0.5	12/14-12/20/06	91.71	N		ND	0.55	1.00
JJT55-1-CM	ND	mg/kg	0.5	12/14-12/20/06	95.14	N		ND	0.53	1.00
JJT58-1-CQ	ND	mg/kg	0.5	12/14-12/20/06	92.16	N		ND	0.54	1.00
JJT66-1-CR	ND	mg/kg	0.5	12/14-12/20/06	93.04	N		ND	0.54	1.00
JJT7F-1-CT	ND	mg/kg	0.5	12/14-12/20/06	90.88	N		ND	0.55	1.00
JJT7Q-1-C2	ND	mg/kg	0.5	12/14-12/20/06	95.68	N		ND	0.52	1.00
JJT8N-1-CD	ND	mg/kg	0.5	12/14-12/20/06	90.86	N		ND	0.55	1.00
JJT87-1-CJ	ND	mg/kg	0.5	12/14-12/20/06	90.46	N		ND	0.55	1.00
JJT9D-1-CK	ND	mg/kg	0.5	12/14-12/20/06	95.80	N		ND	0.52	1.00
JJ0QP-1-C3	ND	mg/kg	0.5	12/14-12/20/06	78.87	N		ND	0.63	1.00
JKGRK-1-AA	ND	mg/kg	0.5	12/14-12/20/06	.00			ND	0.50	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JKGRK-1-AD		20.0	17.967	89.83	12/14-12/20/06	(90-110)	1.00
JKGRK-1-AC		5.0	3 N	60.00	12/14-12/20/06	(90-110)	1.00

Notes:
N Spiked analyte recovery is outside stated control limits.

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Di
JJ0QP-1-E8		ND	5	5.06	3.99	101.20	79.80	23.64	12/14-12/20/06	

Notes:

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6333274**

Date 1/19/2007
Time 16:44:17

Method Code: **Cyanide, Total**
Analyst:**Debbie Thomas**
Notes:
Results and reporting limits have been adjusted for dry weight.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

STL St. Louis Laboratory
Cyanide Method 335.4/9012B

Analyst: HOUGHC

Prep Date: 12/19/2006

Batch No.: 6333274

Analysis Filename: CN1220B

Analysis Date: 12/20/2006

Laboratory ID	Standard Conc. ug/L	Raw Value ug/L	Dilution	Sample Volume Liter (Nom. 0.050L)	Sample Volume Gram (Nom. 1 g)	Scrubber Volume, L (Nom. 0.05L)	Combined Prep Factor	Final Concentration as CN ug/L	Final Concentration as CN mg/Kg *	Percent Recovery	RPD
JJT4R		0	1		1	0.05	0.05		0		
JJT44		5.36	1		1	0.05	0.05		0.268		
JJT47		5.8	1		1	0.05	0.05		0.29		
JJT5C		0.011	1		1	0.05	0.05		0.00055		
JJT5K		0.011	1		1	0.05	0.05		0.00055		
JJT5Q		0.011	1		1	0.05	0.05		0.00055		
JJT55		1.86	1		1	0.05	0.05		0.093		
JJT58		0.011	1		1	0.05	0.05		0.00055		
JJT66		0.011	1		1	0.05	0.05		0.00055		
JJT7F		0.011	1		1	0.05	0.05		0.00055		
JJT7Q		0.012	1		1	0.05	0.05		0.0006		
JJT8N		0	1		1	0.05	0.05		0		
JJT87		0	1		1	0.05	0.05		0		
JJT9D		0	1		1	0.05	0.05		0		
JJ0QP		2.53	1		1	0.05	0.05		0.1265		
BLK		0.09	1		1	0.05	0.05		0.0045		
LCS		60.09	1		1	0.05	0.05		3.0045		
			1		1	0.05	0.05		0		
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							#DIV/0!				
							#DIV/0!				

Control Limits (Water/Soil): LCS = 90 - 110; RPD 20%

Control Limits (Water/Soil): MS = 90 - 110; RPD (water) 20%, (soil) 30%

SOP	Rev	Date
STL-WC-0002	5	2/28/06

$$\text{Cyanide, total ug/L (mg/Kg)} = \frac{\text{Raw Value X Dilution X Scrubber Volume (L)}}{\text{Sample Volume (L,G)}}$$

 # Results are raw calcuation and do not reflect rounding, requested significant figures, or client reporting limits.

*** Results on spreadsheet are "wet weight".**

File: Slsvr01\Wet Chem Results\6333274Cyanide.xls, modified 10/16/06

SEVERN TRENT STL

STL St. Louis

CYANIDE DISTILLATION

Due Dates: Earliest: ~~HOLD~~ 11/29 Latest: 11/30	**Analyst/Run Date:** DT 12-14-06 (2)
Method #/Name: CN- / 9012, 9012A	**Sample Type:** (SOIL) WATER
Batch #: 6333274, 6333327	
Lot #s: FL6K160199, FL6K170247	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	JJOQP	1g	50 ml	NA	NA	
2	JJOQP-D	↓	50 ml	↓	↓	
3	JJOQP-S		50 ml			
4	BLK		50 ml			6333327 ↓
5	LCS		50 ml			
6	HCS		50 ml			
7	JJT9F		50 ml			
8	JJOTH		50 ml			
9	JJOTN		50 ml			
10	JJOTV		50 ml			
11	JJOTV-D		50 ml			
12	JJOTV-S		50 ml			
13	JJOV5		50 ml			
14	JJOWG		50 ml			
15	JJOWP	↓	50 ml	↓	↓	
16	----------	----------	----------	----------	----------	----------
17	JJOWQ		50 ml			
18	JJOW3		50 ml			
~~19~~			~~50 ml~~			
~~20~~			~~50 ml~~			

Sent To TRAACS		YES	NO
	Distilled Cyanide Samples	X	
	Client Requirement Sheets	X	
	Quantums Batch Sheets	X	
	Distillation Prep STDlog	X	

Analyst/Date: DT 12-14-06

Reviewer/Date:

SEVERN TRENT STL

STL St. Louis

COPY

CYANIDE DISTILLATION

Due Dates: Earliest: 11/30 Latest: 12/15	**Analyst/Run Date:** 12-14-06 (3)
Method #/Name: CN- / 9012, 9012A	**Sample Type:** SOIL WATER
Batch #: ~~6333327~~ 6346388 (1st) 6333327	
Lot #s: F6K170247, F6L010268	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	JJ0XF	1g	50 ml	NA	NA	
2	JJ0X2		50 ml			
3	JJ0X5		50 ml			
4	JJ0X5-D		50 ml			
5	JJ0X5-S		50 ml			
6	BLK	50 ml	50 ml	Y	Y	6346388
7	LCS		50 ml			
8	LCS		50 ml			
9	JKM64		50 ml			
10	JKM64-S		50 ml			
11	JKM64-X		50 ml			
12	JKMP1		50 ml			
13	JKMP1-S		50 ml			
14	JKMP1-X		50 ml			
15			~~50 ml~~			
16						
17			50 ml			
18			~~50 ml~~			
19			50 ml			
20			~~50 ml~~			

ONLY

Used for different Data packet 12/20

Sent To TRAACS		YES	NO
	Distilled Cyanide Samples	X	
	Client Requirement Sheets	X	
	Quantums Batch Sheets	X	
	Distillation Prep STDlog	X	

Analyst/Date: 12-14-06

Reviewer/Date:

RQC050 Severn Trent Laboratories, Inc. Run Date: 1/19/07
WET CHEM BATCHSHEET Time: 16:43:52

STL St. Louis

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: QP Cyanide, Total (9012A, Automated)
Cyanide, Total
QC BATCH #: 6333327 INITIALS: DATA ENTRY:
PREP DATE: 12/14/06 PREP _____ INITIALS _____
COMP DATE: 1/11/07 ANAL _____ DATE _____
USER: HOUGHC

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJT9F-1-CL	F-6K160199-016	XX A 06 QP 01	Y-D		SA21-30
JJ0TH-1-CE	F-6K170247-002	XX A 06 QP 01	Y-D		SA22-10
JJ0TN-1-CK	F-6K170247-003	XX A 06 QP 01	Y-D		SA22-20
JJ0TV-1-CE	F-6K170247-004	XX A 06 QP 01	Y-D		SA20-0.5
JJ0TV-1-FN	F-6K170247-004-D	XX A 06 QP 01	Y-D		SA20-0.5
JJ0TV-1-FM	F-6K170247-004-S	XX A 06 QP 01	Y-D		SA20-0.5
JJ0V5-1-CK	F-6K170247-005	XX A 06 QP 01	Y-D		SA20-0.5D
JJ0WG-1-CN	F-6K170247-006	XX A 06 QP 01	Y-D		SA20-10
JJ0WP-1-CP	F-6K170247-007	XX A 06 QP 01	Y-D		SA20-20
JJ0WQ-1-CQ	F-6K170247-008	XX A 06 QP 01	Y-D		SA20-25
JJ0W3-1-CK	F-6K170247-009	XX A 06 QP 01	Y-D		SA19-0.5
JJ0XF-1-CN	F-6K170247-010	XX A 06 QP 01	Y-D		SA19-10
JJ0X2-1-CP	F-6K170247-011	XX A 06 QP 01	Y-D		SA19-20
JJ0X5-1-CQ	F-6K170247-012	XX A 06 QP 01	Y-D		SA19-25
JJ0X5-1-FW	F-6K170247-012-D	XX A 06 QP 01	Y-D		SA19-25
JJ0X5-1-FV	F-6K170247-012-S	XX A 06 QP 01	Y-D		SA19-25
JKG3J-1-AA	F-6K290000-327-B	XX A 06 QP 01			INTRA-LAB BLANK
JKG3J-1-AD	F-6K290000-327-C	XX A 06 QP 01			INTRA-LAB CHECK

RQC050 Severn Trent Laboratories, Inc. Run Date: 1/19/07
WET CHEM BATCHSHEET Time: 16:43:52

STL St. Louis

QC BATCH #: **6333327** INITIALS: DATA ENTRY:
PREP DATE: 12/14/06 PREP _____ INITIALS _____
COMP DATE: 1/11/07 ANAL _____ DATE _____
USER: HOUGHC

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:	Control Limits
JKG3J-1-AC	F-6K290000-327-C	XX A 06 QP 01		_____	INTRA-LAB CHECK	(90-110)
						(90-110)
						(90-110)
						(90-110)
						(90-110)
						(90-110)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch 6333327

Date 1/19/2007
Time 17:41:58

Method Code: Cyanide, Total
Analyst:Debbie Thomas

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JJT9F-1-CL	ND	mg/kg	0.5	12/14-12/20/06	89.45	N		ND	0.56	1.00
JJ0TH-1-CE	ND	mg/kg	0.5	12/14-12/20/06	90.27	N		ND	0.55	1.00
JJ0TN-1-CK	ND	mg/kg	0.5	12/14-12/20/06	85.73	N		ND	0.58	1.00
JJ0TV-1-CE	ND	mg/kg	0.5	12/14-12/20/06	89.86	N		ND	0.56	1.00
JJ0V5-1-CK	ND	mg/kg	0.5	12/14-12/20/06	80.50	N		ND	0.62	1.00
JJ0WG-1-CN	ND	mg/kg	0.5	12/14-12/20/06	84.21	N		ND	0.59	1.00
JJ0WP-1-CP	ND	mg/kg	0.5	12/14-12/20/06	94.77	N		ND	0.53	1.00
JJ0WQ-1-CQ	ND	mg/kg	0.5	12/14-12/20/06	84.53	N		ND	0.59	1.00
JJ0W3-1-CK	ND	mg/kg	0.5	12/14-12/20/06	90.59	N		ND	0.55	1.00
JJ0XF-1-CN	ND	mg/kg	0.5	12/14-12/20/06	91.48	N		ND	0.55	1.00
JJ0X2-1-CP	ND	mg/kg	0.5	01/11-01/15/07	91.22	N		ND	0.55	1.00
JJ0X5-1-CQ	ND	mg/kg	0.5	01/11-01/15/07	86.06	N		ND	0.58	1.00
JKG3J-1-AA	ND	mg/kg	0.5	12/14-12/20/06	.00			ND	0.50	1.00

Notes:

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
JKG3J-1-AD		20.0	11.917 N	59.58	01/11-01/15/07	(90-110)	1.00
JKG3J-1-AC		5.0	4.1335 N	82.67	12/14-12/20/06	(90-110)	1.00

Notes:
N Spiked analyte recovery is outside stated control limits.

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Di
JJ0TV-1-FM		ND	5	4.6595	4.6485	93.19	92.97	.23	12/14-12/20/06	
JJ0X5-1-FV		ND	5	2.7035 N	3.367	54.07	67.34	21.86	01/11-01/15/07	

Notes:
Results and reporting limits have been adjusted for dry weight.
N Spiked analyte recovery is outside stated control limits.

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

STL St. Louis Laboratory
Cyanide Method 335.4/9012B

Analyst: houghc

Prep Date: 12/14/2006

Batch No.: 6333327

Analysis Filename: cn122B

Analysis Date: 12/20/2006

Laboratory ID	Standard Conc. ug/L	Raw Value ug/L	Dilution	Sample Volume Liter (Nom. 0.050L)	Sample Volume Gram (Nom. 1 g)	Scrubber Volume, L (Nom. 0.05L)	Combined Prep Factor	Final Concentration as CN ug/L	Final Concentration as CN mg/Kg *	Percent Recovery	RPD
JJT9F		3.2	1		1	0.05	0.05		0.16		
JJ0TH		1.89	1		1	0.05	0.05		0.0945		
JJ0TN		2.11	1		1	0.05	0.05		0.1055		
JJ0TV		1.67	1		1	0.05	0.05		0.0835		
JJ0V5		3.21	1		1	0.05	0.05		0.1605		
JJ0WG		0.14	1		1	0.05	0.05		0.007		
JJ0WP		0.015	1		1	0.05	0.05		0.00075		
JJ0WQ		0.59	1		1	0.05	0.05		0.0295		
JJ0W3		0	1		1	0.05	0.05		0		
JJ0XF		3	1		1	0.05	0.05		0.15		
JJ0X2		141.15	1		1	0.05	0.05		7.0575		
JJ0X5		306.67	1		1	0.05	0.05		15.3335		
BLK		4.29	1		1	0.05	0.05		0.2145		
LCS		82.67	1		1	0.05	0.05		4.1335		
HCS		238.34	1		1	0.05	0.05		11.917		
JJ0TVD		93.19	1		1	0.05	0.05		4.6595		
JJ0TVS		92.97	1		1	0.05	0.05		4.6485		
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				
							#DIV/0!				

Control Limits (Water/Soil): LCS = 90 - 110; RPD 20%

Control Limits (Water/Soil): MS = 90 - 110; RPD (water) 20%, (soil) 30%

Cyanide, total ug/L (mg/Kg) = $\frac{\text{Raw Value X Dilution X Scrubber Volume (L)}}{\text{Sample Volume (L,G)}}$

SOP	Rev	Date
STL-WC-0002	5	2/28/06

 # Results are raw calcuation and do not reflect rounding, requested significant figures, or client reporting limits.

*** Results on spreadsheet are "wet weight".**

File: Slsvr01\Wet Chem Results\6333327 Cyanide.xls, modified 10/16/06

Page: 1

Order of Fit: First
Coefs: 1st: 0.000000 2nd: 8.965651

Report Date: 1/12/07
Analysis Date: 12/20/06
Data File: CN1220B
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.997629
Corr: 0.998814
Std. Dev.: 9.435125

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
1	P			509.48		15:34:31
2	W			2.63	I	15:35:47
3	S1			0.00	sI	15:37:03
4	S2			5.04	s	15:38:19
5	S3			19.71	s	15:39:33
6	S4			107.07	s	15:40:47
7	S5			240.63	s	15:42:02
8	S6			305.87	s	15:43:17
9	S7			382.72	s	15:44:33
10	S8			512.34	s	15:45:48
11	ICV			192.25/200		15:47:03
12	ICB			1.77	I	15:48:18
13	BLK		6338185	0.02	I	15:49:33
14	LCS			53.22/100		15:50:49
15	HCS			317.49/400		15:52:04
16	JJ28J ICO			1.99	I	15:53:19
17	JJ28JD			89.57		15:54:34
18	JJ28JS			92.20		15:55:48
19	JJ28P			0.03	I	15:57:03
20	JJ28V			0.25	I	15:58:18
21	JJ28W			0.03	I	15:59:33
22	JJ28X			0.03	I	16:00:49
23	CCV			245.25/250		16:02:05
24	CCB			1.79	I	16:03:20
25	JJ280			0.03	I	16:04:35
26	JJ282			0.26	I	16:05:50
27	JJ288			0.04	I	16:07:05
28	JJ29D			0.04	I	16:08:20
29	JJ29E			0.04	I	16:09:35
30	JJ29F			1.36	I	16:10:50
31	JJ29FD			77.33		16:12:06
32	JJ29FS			93.53		16:13:21
33	BLK			6.83	I	16:14:36
34	LCS			85.87/100		16:15:51
35	CCV			261.47/250		16:17:06
36	CCB			6.62	I	16:18:21
37	HCS		6338198	278.11/400		16:19:36
38	JJ6MX ICO			8.15	I	16:20:51
39	JJ6MXD			104.05		16:22:07
40	JJ6MXS			87.85		16:23:22
41	JJ6Q4			4.00	I	16:24:37
42	JJ6Q4D			67.71		16:25:52
43	JJ6Q4S			70.34		16:27:07
44	JJ6RJ			3.56	I	16:28:22
45	JJ6R1			3.35	I	16:29:37

Page: 2 Order of Fit: First
Coefs: 1st: 0.000000 2nd: 8.965651

Report Date: 1/12/07
Analysis Date: 12/20/06
Data File: CN1220B
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.997629
Corr: 0.998814
Std. Dev.: 9.435125

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
46	JJ6TC			0.28	I	16:30:52
47	CCV			259.73/250		16:32:07
48	CCB			0.29	I	16:33:22
49	JJ8P5			3.35	I	16:34:37
50	JJ8QK			0.29	I	16:35:52
51	JJ8QKD			86.33		16:37:08
52	JJ8QKS			88.74		16:38:23
53	JJ8V6			0.07	I	16:39:38
54	JJ8WC			0.08	I	16:40:53
55	BLK			0.08	I	16:42:08
56	LCS	634647		88.31/100		16:43:24
57	HCS			346.66/400		16:44:39
58	JKPNX1CT			2.71	I	16:45:54
59	CCV			239.82/250		16:47:09
60	CCB			1.62	I	16:48:24
61	JKPN2			0.00	-RI	16:49:40
62	JKPN5			3.37	I	16:50:56
63	JKPN5D			4.91		16:52:12
64	JKPN5S			40.59		16:53:25
65	JKR62			0.00	-RI	16:54:40
66	JKR7D			0.00	-RI	16:55:55
67	BLK			0.09	I	16:57:10
68	LCS	633274		60.09/100		16:58:25
69	HCS			30.75/400		16:59:41
70	JJT4R1CW			0.10	I	17:00:56
71	CCV			257.36		17:02:11
72	CCB			1.41	I	17:03:26
73	JJT44			5.36		17:04:41
74	JJT47			5.80		17:05:58
75	JJT5C			0.11	I	17:07:12
76	JJT5K			0.11	I	17:08:27
77	JJT5Q			0.11	I	17:09:42
78	JJT55			1.86	I	17:10:57
79	JJT58			0.11	I	17:12:12
80	JJT66			0.11	I	17:13:27
81	JJT7F			0.11	I	17:14:42
82	JJT7Q			0.12	I	17:15:57
83	CCV			257.59		17:17:12
84	CCB			1.87	I	17:18:27
85	JJT8N			0.00	-RI	17:19:42
86	JJT87			0.00	-RI	17:20:57
87	JJT9D			0.00	-RI	17:22:12
88	JJ0QP			2.53	I	17:23:27
89	JJ0QPD			85.95		17:24:43
90	JJ0QPS			110.04		17:25:58

Page: 3 Order of Fit: First
Coefs: 1st: 0.000000 2nd: 8.965651

Report Date: 1/12/07
Analysis Date: 12/20/06
Data File: CN1220B
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.997629
Corr: 0.998814
Std. Dev.: 9.435125

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
91	BLK	6333327		4.29		17:27:16
92	LCS			82.67/100		17:28:28
93	HCS			238.34/400		17:29:43
94	JJT9F			3.20	I	17:30:58
95	CCV			254.98/250		17:32:14
96	CCB			0.13	I	17:33:29
97	JJ0THICE			1.89	I	17:34:44
98	JJ0TN			2.11	I	17:35:59
99	JJ0TV			1.67	I	17:37:14
100	JJ0TVD			93.19		17:38:30
101	JJ0TVS			92.97		17:39:45
102	JJ0V5			3.21	I	17:41:00
103	JJ0WG			0.14	I	17:42:15
104	JJ0WP			0.15	I	17:43:31
105	JJ0WQ			0.59	I	17:44:47
106	JJ0W3			0.00	-RI	17:46:03
107	CCV			244.93/250		17:47:19
108	CCB			0.15	I	17:48:33
109	JJ0XF			3.00	I	17:49:47
110	JJ0X2			141.15	M	17:51:18
111	JJ0X5			306.67	M	17:52:11
112	JJ0X5D			0.00	-RI	17:53:26
113	JJ0X5S			0.00	-RI	17:54:41
114	BLK			0.00	-RI	17:55:56
115	LCS	6346388		0.00	-RI	17:57:11
116	HCS			0.00	-RI	17:58:26
117	JKM64	1AH 2AH		0.00	-RI	17:59:41
118	JKM64X	AL AM AN AP		0.00	-RI	18:00:56
119	CCV			0.00	-RI	18:02:11
120	CCB			0.00	-RI	18:03:26
121	JKM64S			0.00	-RI	18:04:41
122	JKPM1			0.00	-RI	18:05:56
123	JKPM1X			0.00	-RI	18:07:11
124	JKPM1S			0.00	-RI	18:08:26
125	BLK	6349287		0.00	-RI	18:09:41
126	LCS			0.00	-RI	18:10:56
127	HCS			0.00	-RI	18:12:11
128	JKR7F ICT			0.00	-RI	18:13:26
129	JKR7G			0.00	-RI	18:14:41
130	JKR7GD			0.00	-RI	18:15:56
131	CCV			0.00	-RI	18:17:11
132	CCB			0.00	-RI	18:18:26
133	JKR7GS			0.00	-RI	18:19:41
134	JKR7T			0.00	-RI	18:20:56
135	JKWQM			0.00	-RI	18:22:11

Not Run

12/15

Page: 4

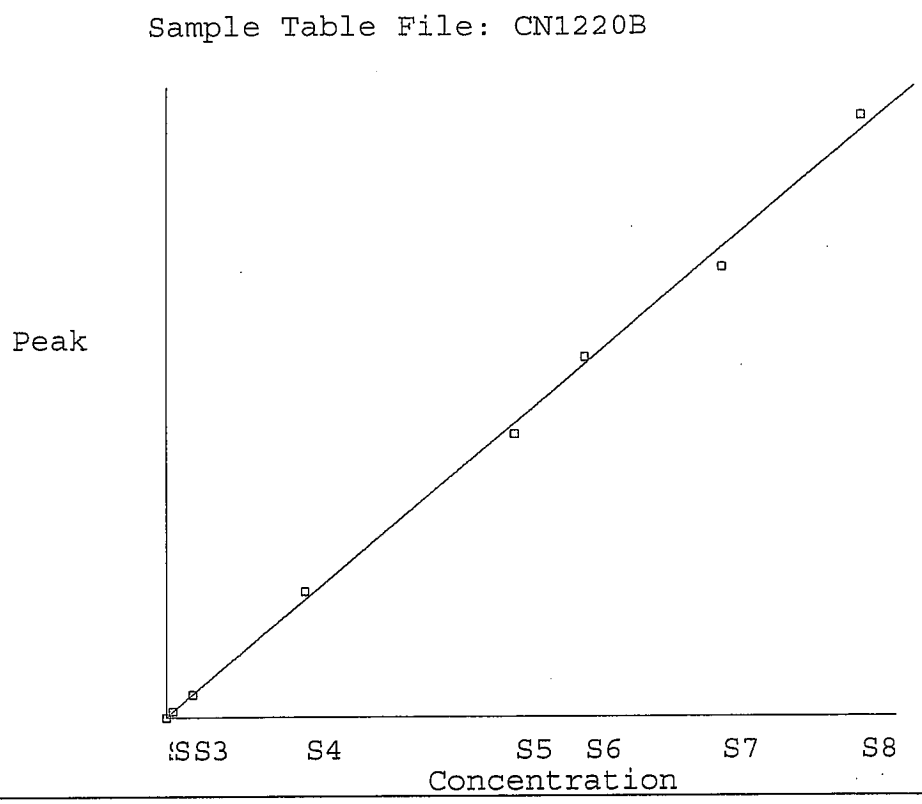
Order of Fit: First
Coefs: 1st: 0.000000 2nd: 8.965651

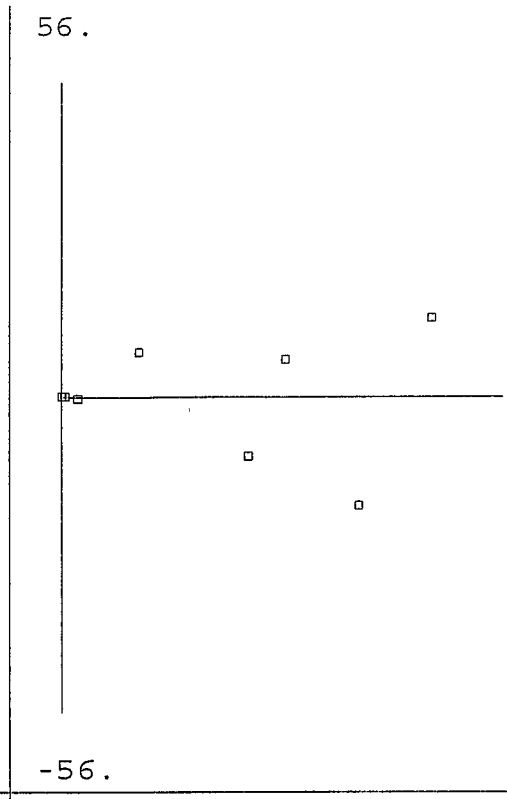
Report Date: 1/12/07
Analysis Date: 12/20/06
Data File: CN1220B
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.997629
Corr: 0.998814
Std. Dev.: 9.435125

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
136	JKWVW			0.00	-RI	18:23:26
137	JKWWK			0.00	-RI	18:24:41
138	JKWWQ			0.00	-RI	18:25:56
139	JK163			0.00	-RI	18:27:11
140	JK17W			0.00	-RI	18:28:26
141	JK173			0.00	-RI	18:29:41
142	JK176			0.00	-RI	18:30:56
143	CCV			0.00	-RI	18:32:11
144	CCB			0.00	-RI	18:33:26
145	JK177			0.00	-RI	18:34:41
146	JK178			0.00	-RI	18:35:56
147	JK4XW			0.00	-RI	18:37:11
148	JK40F			0.00	-RI	18:38:26
149	JK40P			0.00	-RI	18:39:41
150	JK40V			0.00	-RI	18:40:56
151	JKR78			0.00	-RI	18:42:11
152	CCV			0.00	-RI	18:43:26
153	CCB			0.00	-RI	18:44:41
154	HIGH			0.00	-RI	18:45:56
155	BLK			0.00	-RI	18:47:11

Data File: CN1220B
Method File: CYANIDE
Sample Table File: CN1220B





S#	Peak	Value	Calc	Residual
S1	0.00	0.00	0.00	0.00
S2	0.56	5.00	5.04	0.04
S3	2.20	20.00	19.71	-0.29
S4	11.94	100.00	107.07	7.07
S5	26.84	250.00	240.63	-9.37
S6	34.12	300.00	305.87	5.87
S7	42.69	400.00	382.72	-17.28
S8	57.14	500.00	512.34	12.34

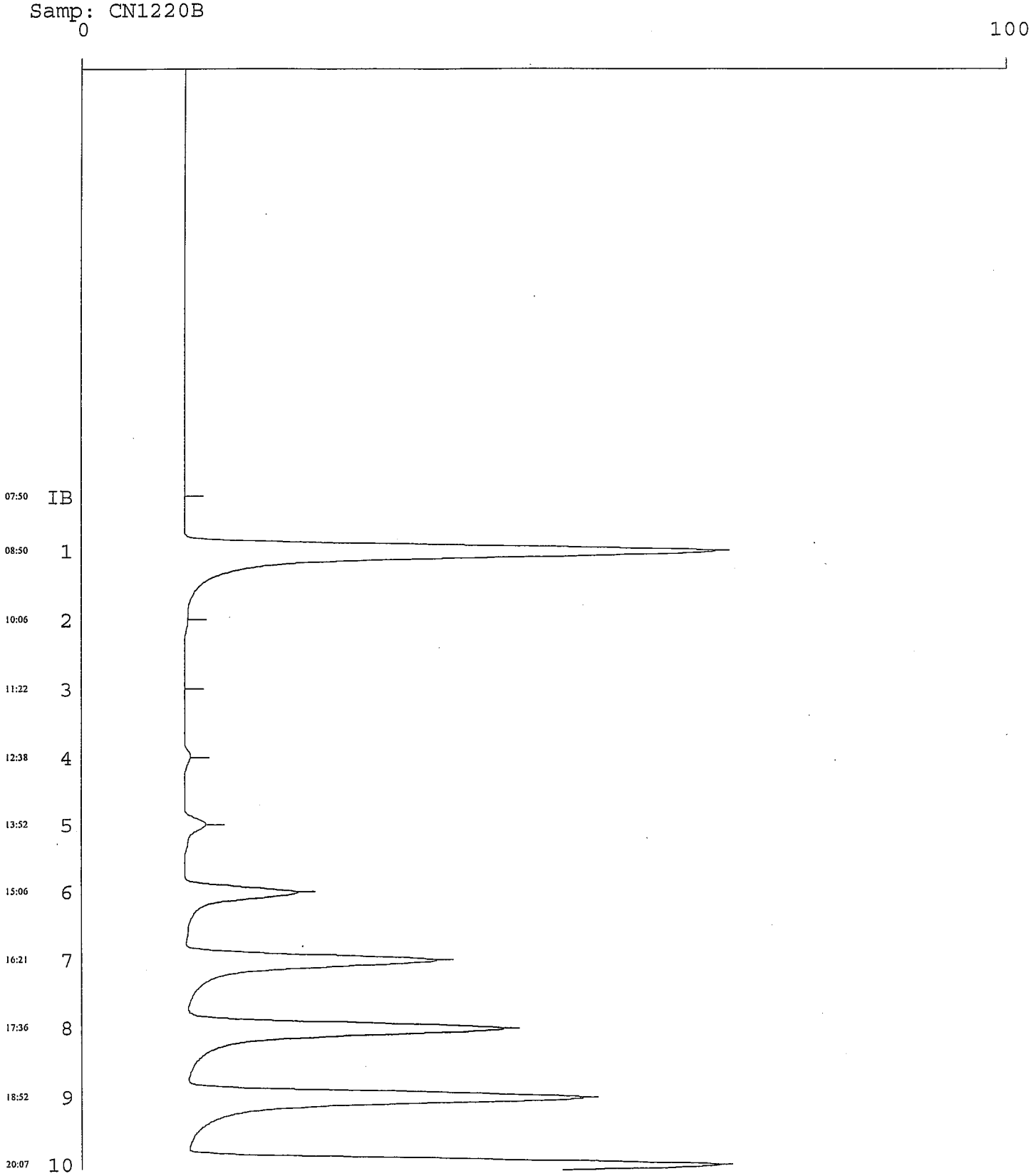
Coefficients:

Intercept :	0
Slope :	8.96565
Std Dev :	9.43513
Corr Coef :	0.998814
R^2 :	0.997629

1/12/2007 18:15

Page:1

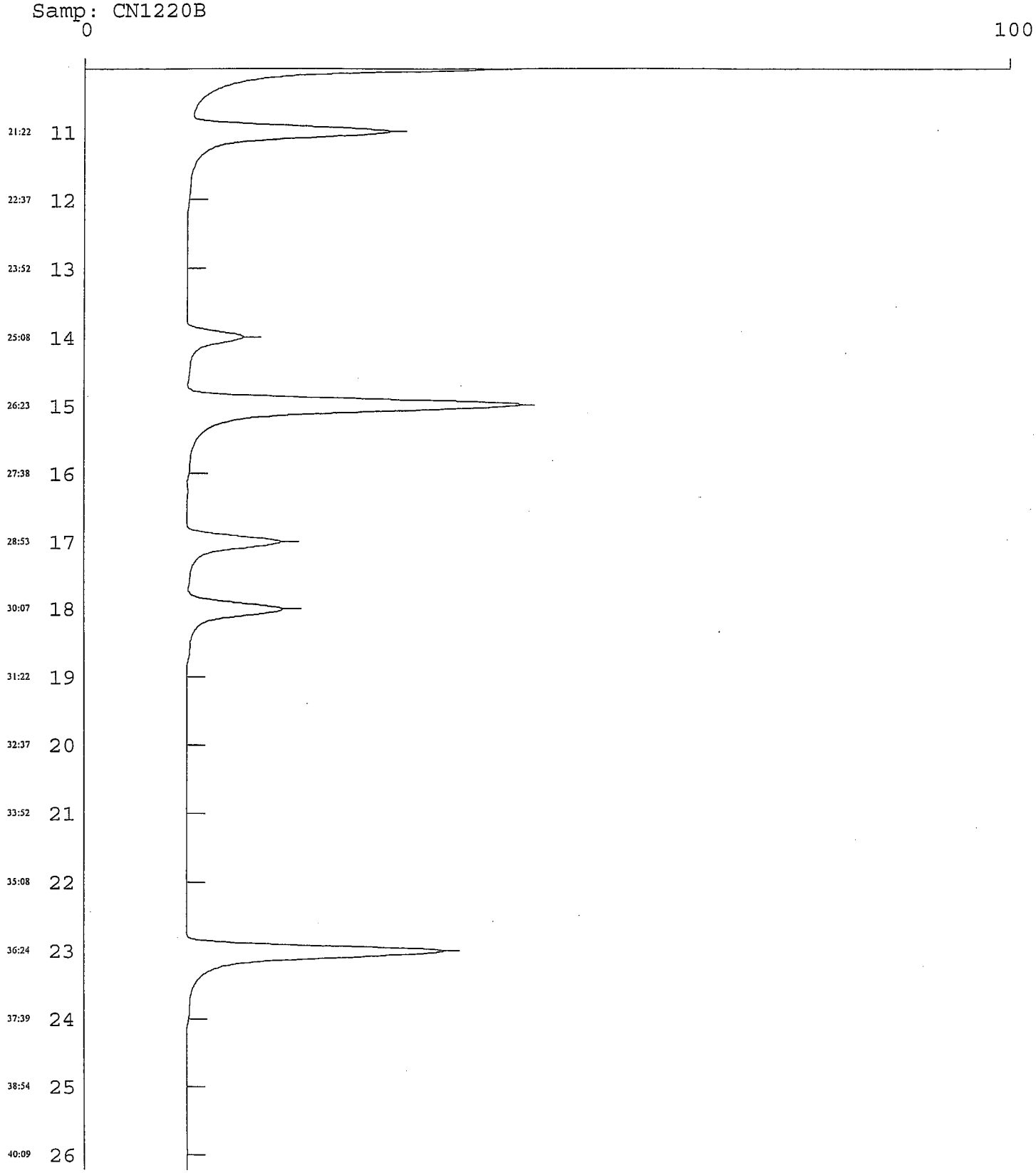
Data: CN1220B
Mthd: CYANIDE
Samp: CN1220B



1/12/2007 18:15

Page:2

Data: CN1220B
Mthd: CYANIDE
Samp: CN1220B



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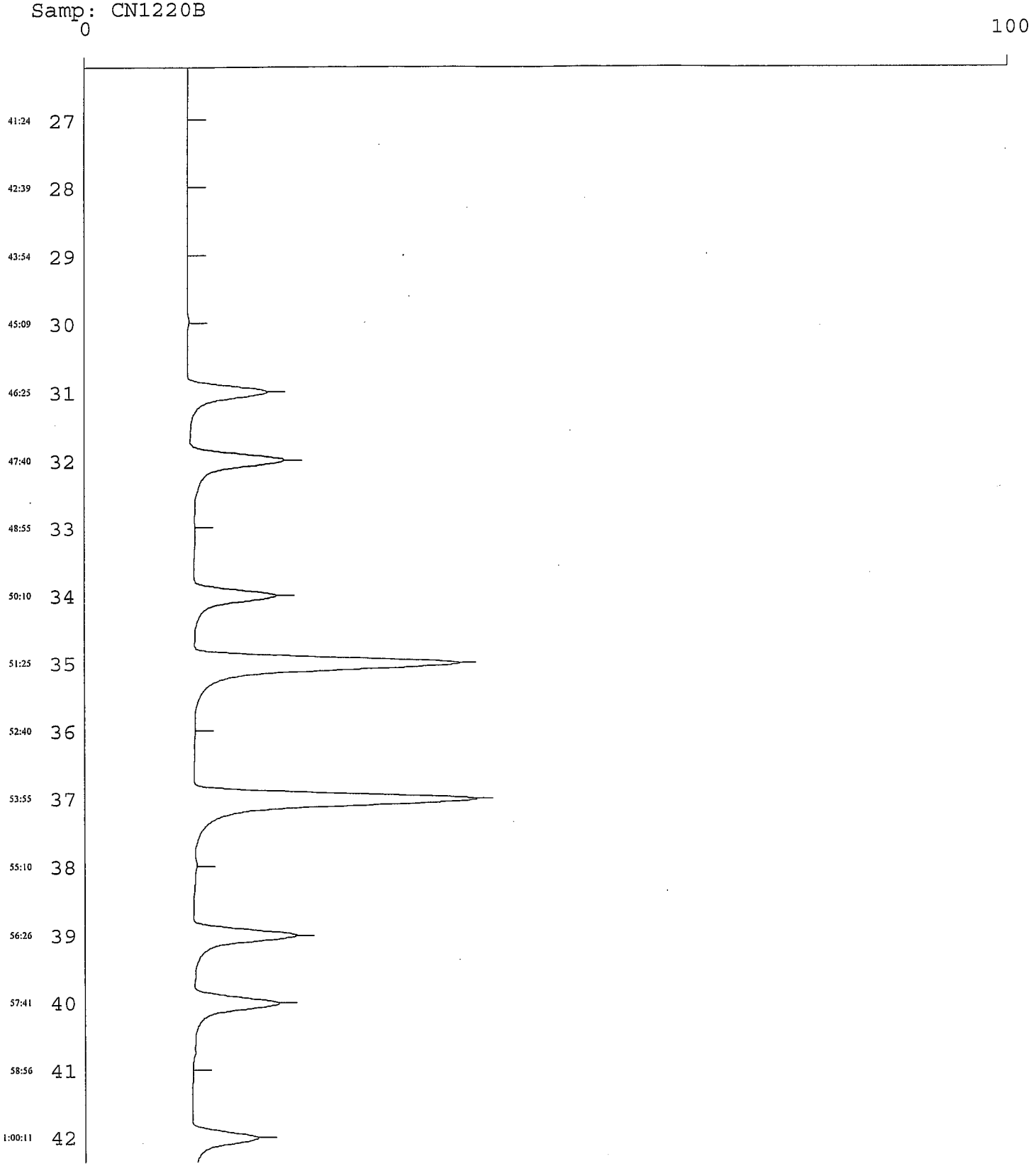
Samp: CN1220B



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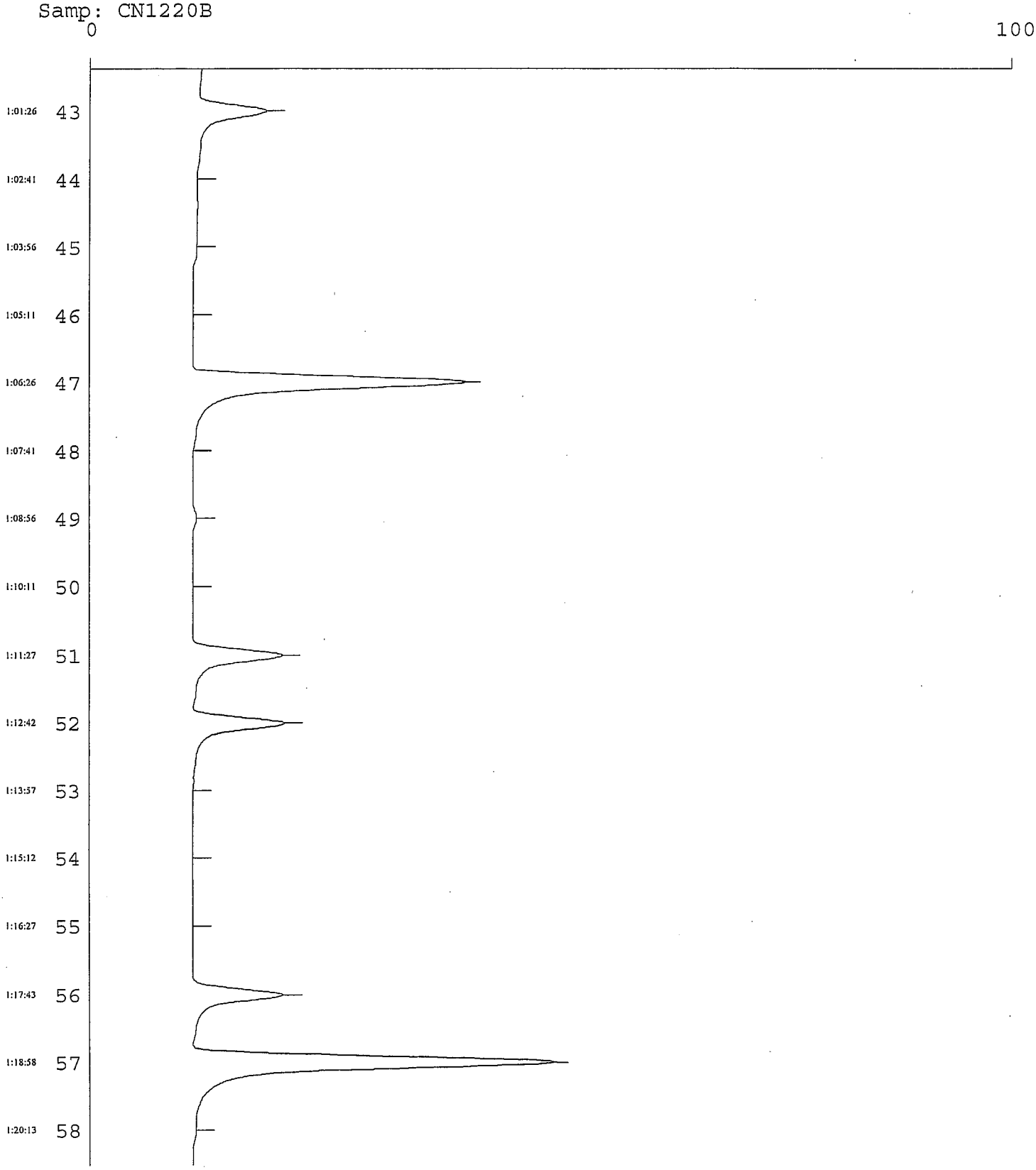
Mthd: CYANIDE
Samp: CN1220B



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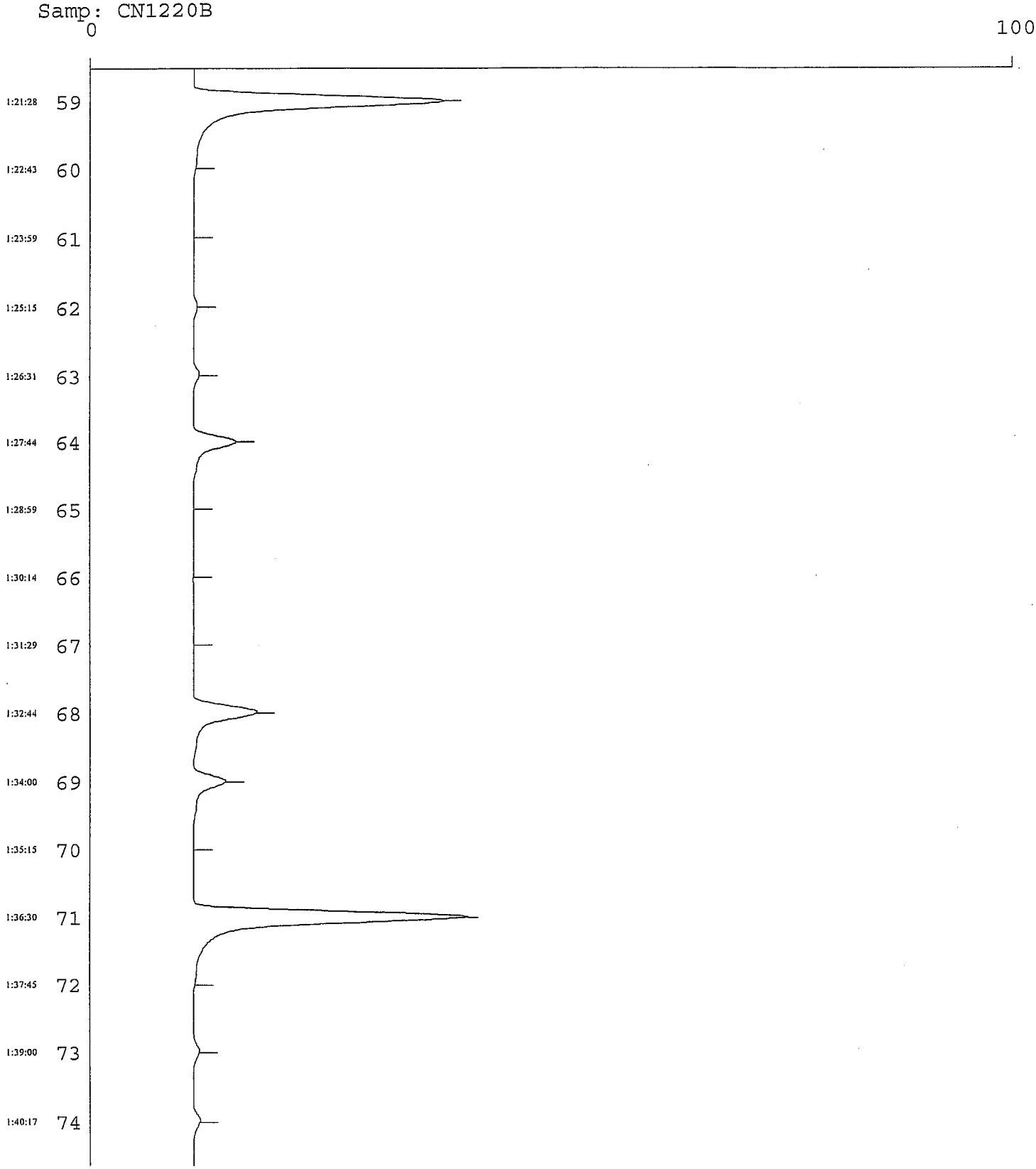
Samp: CN1220B



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Mthd: CYANIDE
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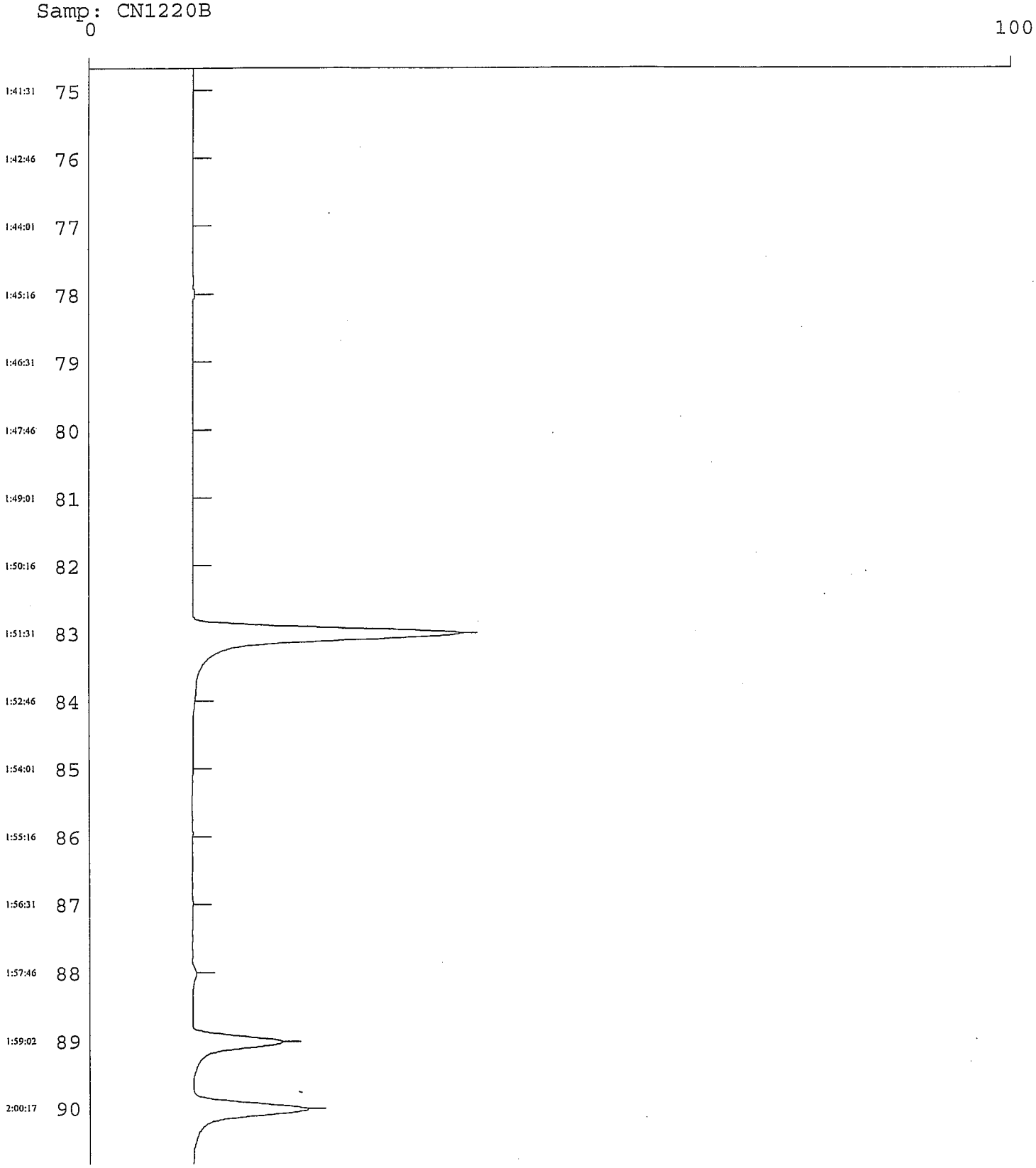

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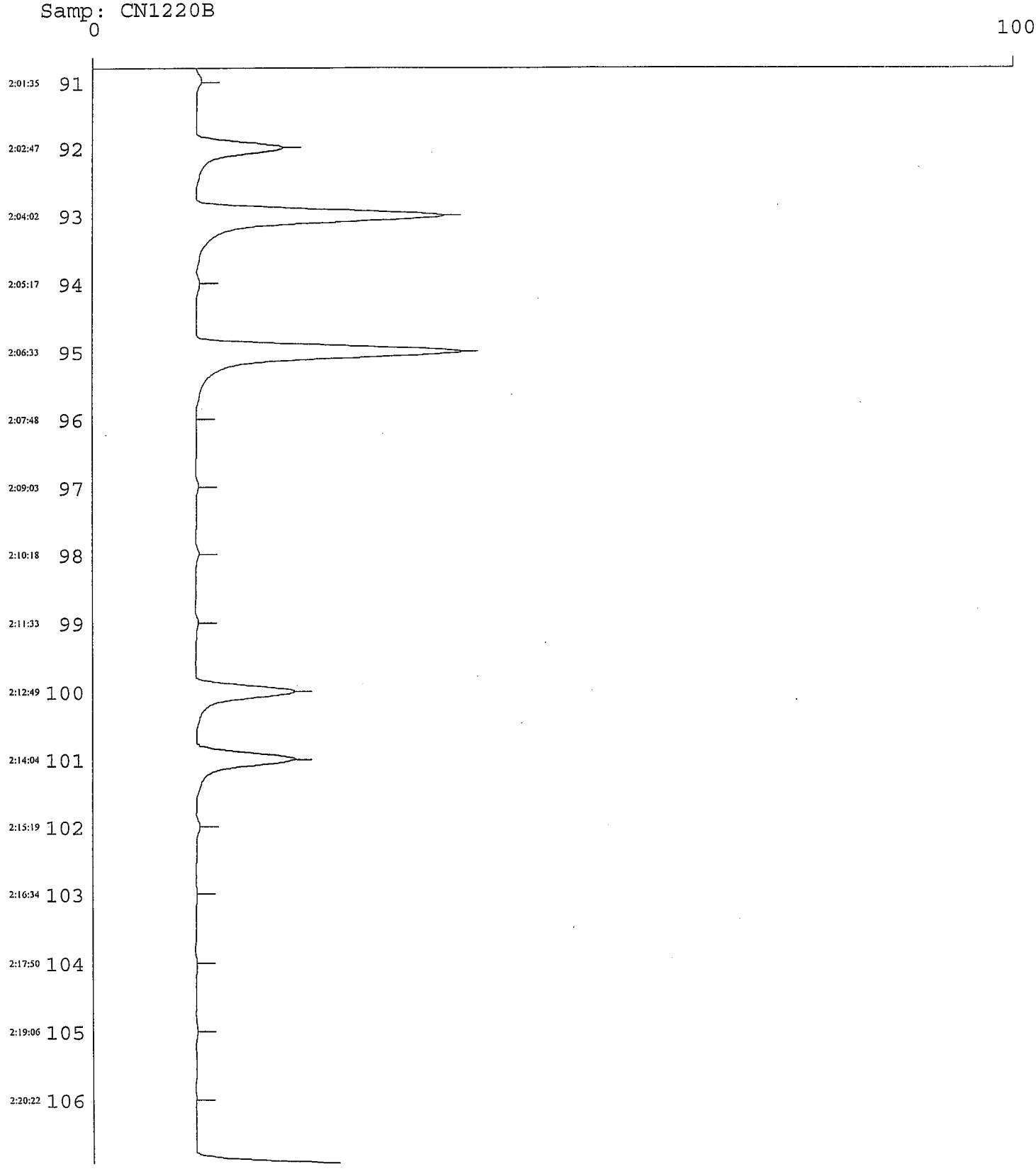
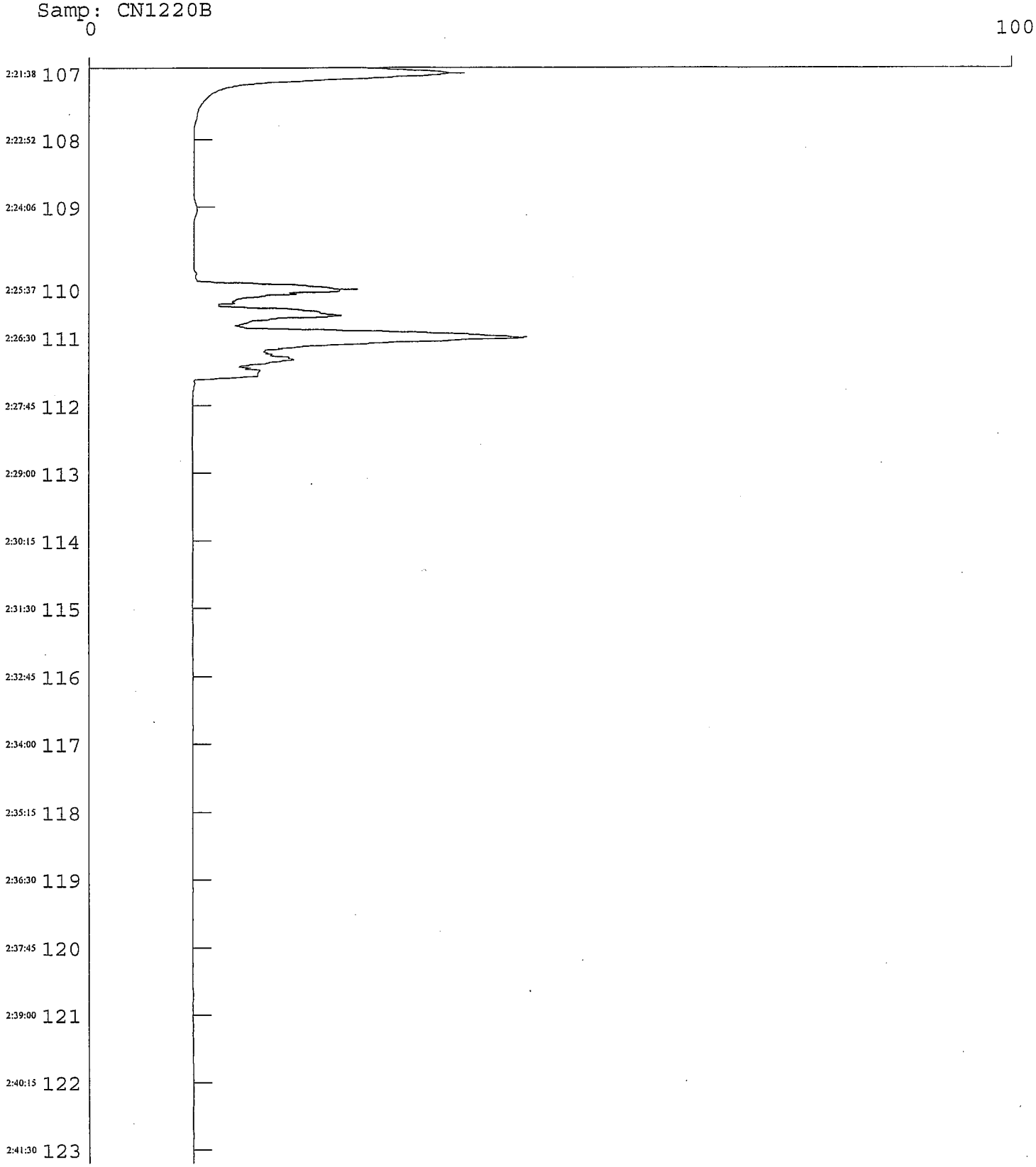
Mthd: CYANIDE
Samp: CN1220B



1/12/2007 18:15

Page:8

Data: CN1220B
Mthd: CYANIDE
Samp: CN1220B



1/12/2007 18:15

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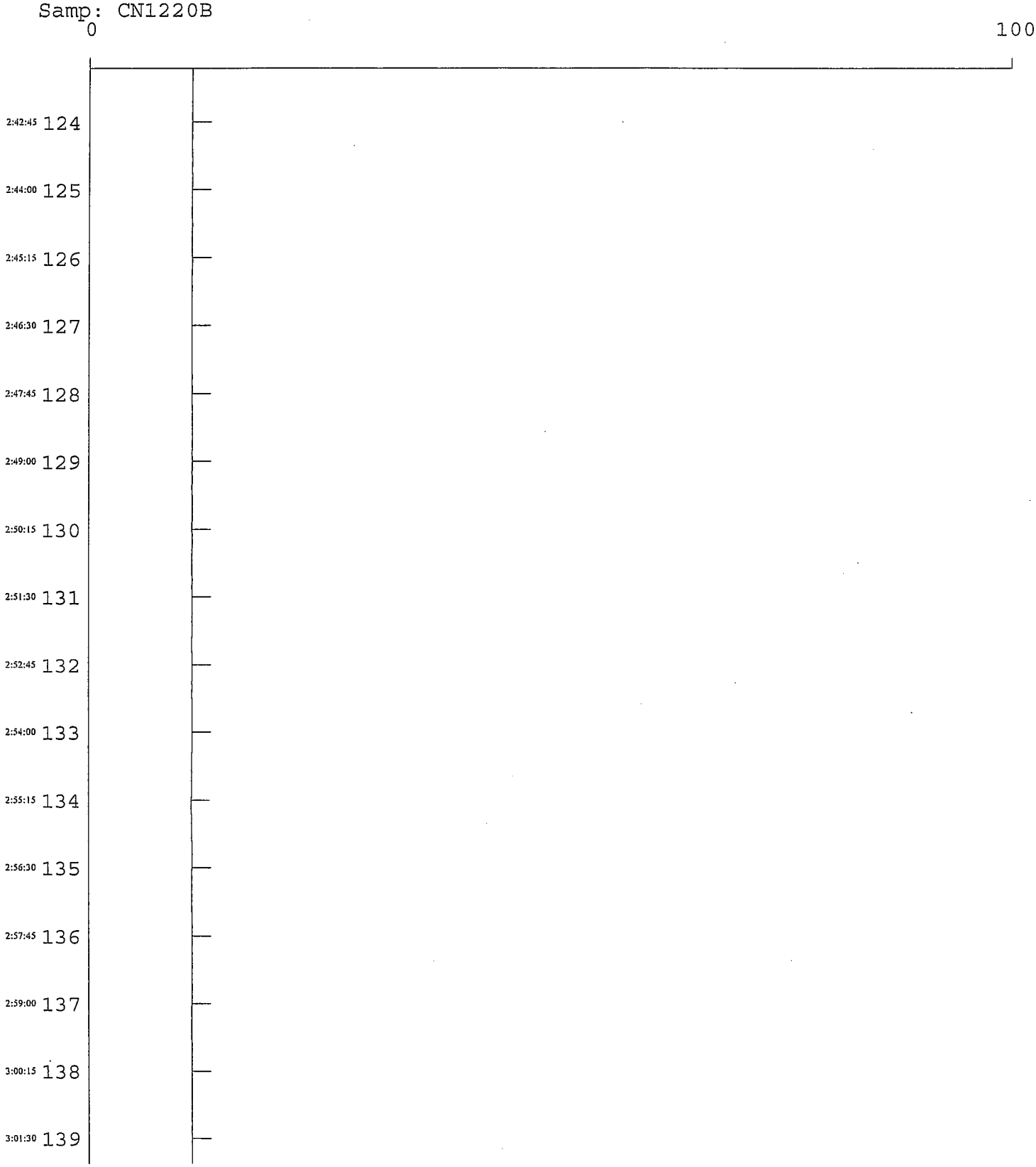
Mthd: CYANIDE
Samp: CN1220B



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Mthd: CYANIDE
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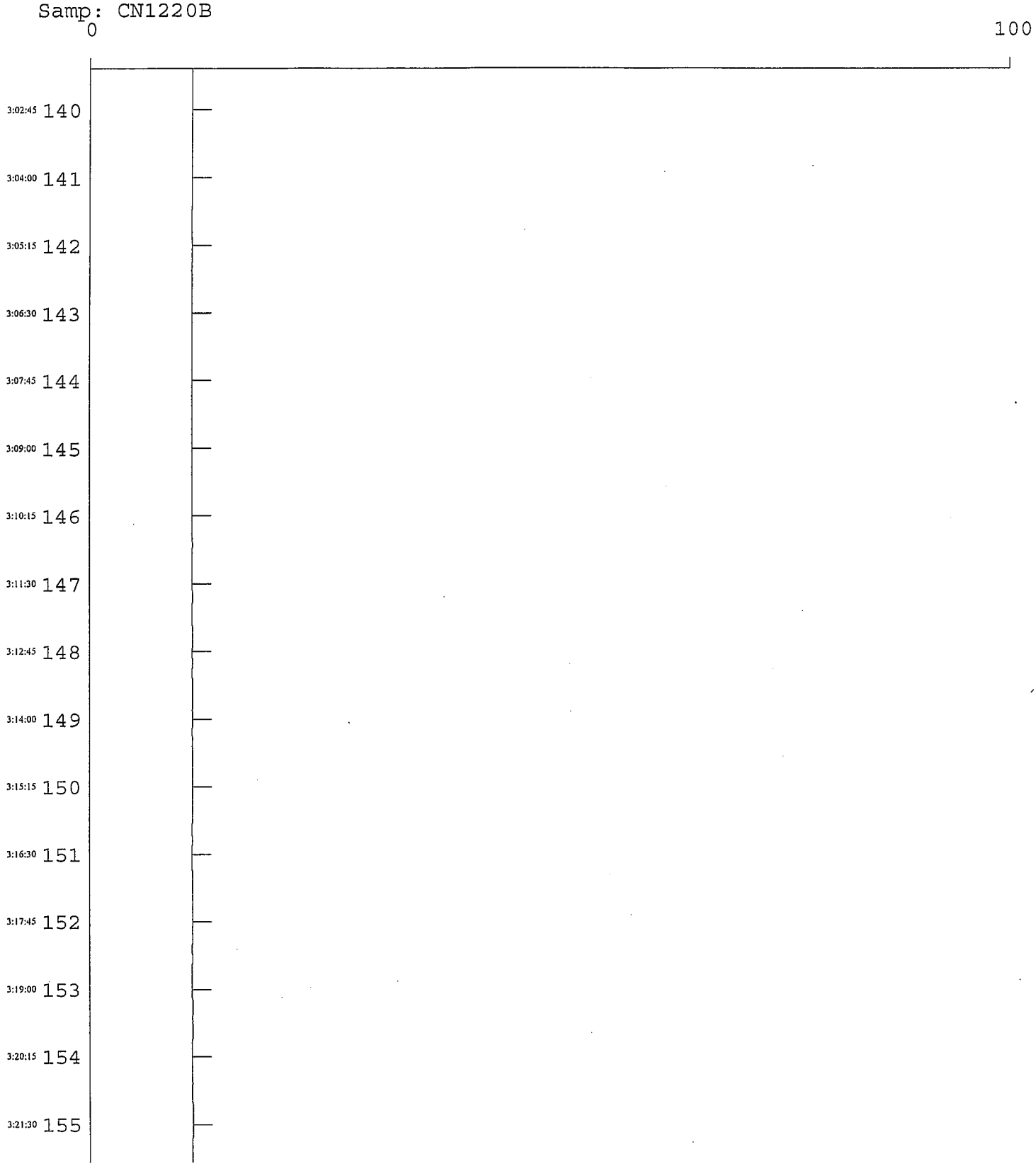

1/12/2007 18:15

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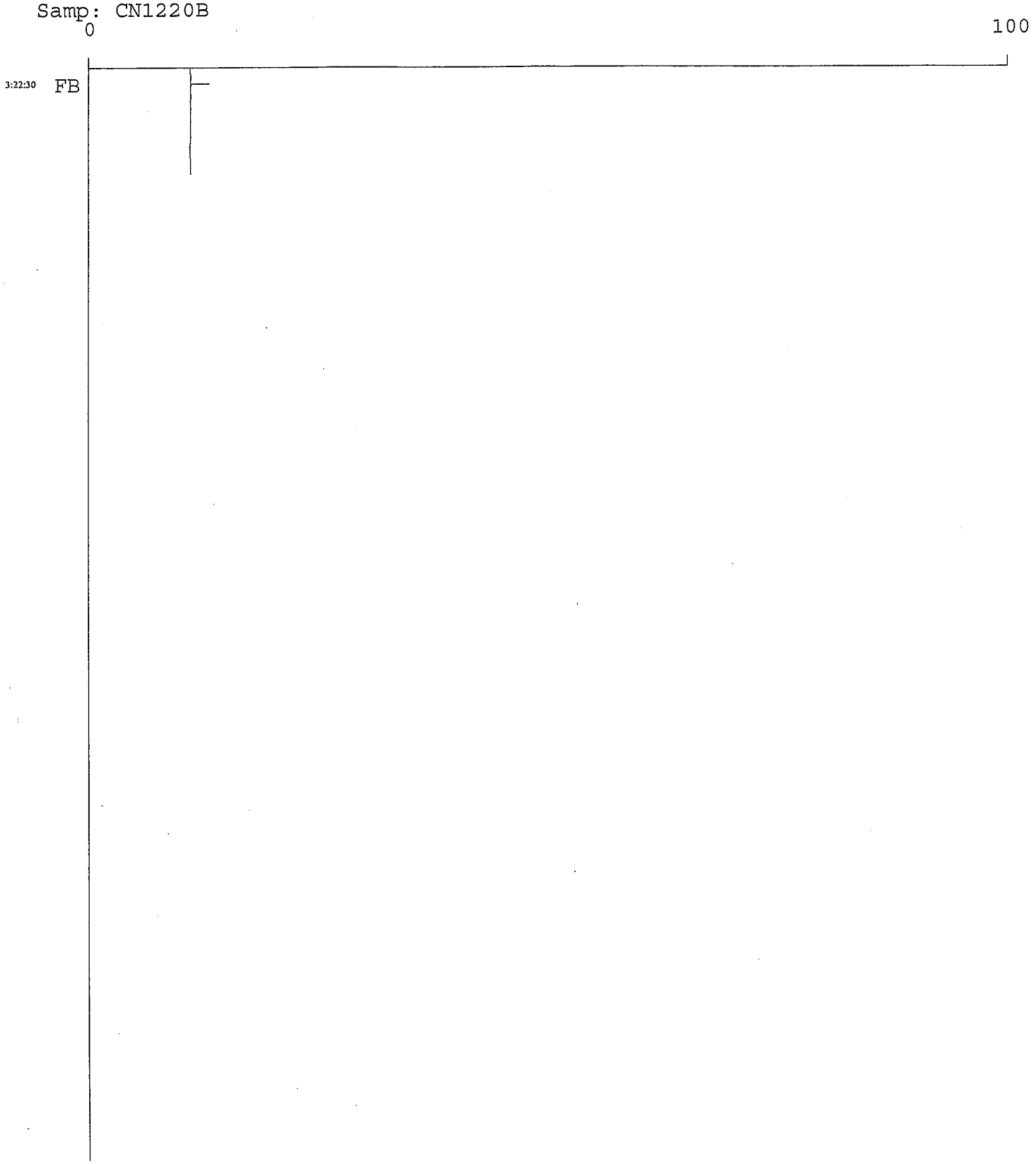
Mthd: CYANIDE
Samp: CN1220B



TRENT STL

Data Review Check List

Wet Chemistry

Due Dates: Earliest: Latest:	**Run Date:** 12-20-07
Method Name/#: CN 335.1, 335.2, 335.4, 9010B, 9012A, 4500	
Batch #: 6338185, 6338198, 6346474, 6333274, 6333327	
Lot #s: 6FK180200, F6K210226, F6L020205, F6K160199, F6K170247	
NCM's: NA	

Review Item	Yes	No	N/A	Review
Initial Calibration				
Initial Calibration data in this package?	X			✓
If not, please specify initial calibration date:				
Initial Calibration meets method acceptance criteria:	X			✓
Corr. Coefficient = 0.995; Y-intercept < the absolute value of the RL				
Is the low level standard = the reporting limit?	X			✓
Calibration Check (ICV)				
ICV performed with initial calibration?	X			✓
ICV meets method acceptance criteria (max. 10% D)?	X			
Continuing Calibration Verification (CCV)				
CCV performed at the prescribed frequency?	X			✓
CCV meets method acceptance criteria (max. 10% D)?	X			
Continuing Calibration Blank (CCB)				
CCB performed after every CCV?	X			✓
CCB meets method acceptance criteria?	X			✓
Criteria: < the absolute value of the Reporting Limit (see client sheet for				
Batch QC - Method Blanks				
Is a Method Blank required for this analysis?	X			✓
Is the method blank below the Reporting Limit for targets of interest?	X			✓
Batch QC - LCS				
Is a LCS required for this analysis?	X			✓
Are the LCS (LCSD) recoveries within method acceptance?	X			✓
Batch QC - MS/MSD				
Is a MS/MSD or MS/Sample Duplicate required for this analysis?	X			✓
Are the MS(MSD) recoveries within method acceptance?	X			
Batch QC - RPD				
MS/MSD or Sample/Sample Duplicate RPD within acceptance criteria	X			
Sample Results - Report				
Are samples bracketed by acceptable CCV/CCB?	X			
Are results within the calibration range?	X			
Was analysis performed within Hold Time?	X			
Did samples require dilution due to: (check one if applicable)		X		
matrix interference high target analyte concentration				
If dilutions were performed, was it within Hold Time?			X	
If dilutions were performed, are the undiluted runs in this submission?			X	
If not, please indicate where found:				
Sample Results - Misc. information				
Are Batch sheets, Preparation Logs (if applicable) included?	X			✓
Are copies of run logs included, initialed and dated?	X			
Were manual calculations performed? reviewer must check calculations		X		
Were manual integrations performed, dated, and initialed?		X		
Client requirement sheets followed in data package?	X			
Reagents and Standards documented on prep/batch sheets?	X			✓
Additional Comments:				

Analyst/Date: DNT 01-24-07	**Reviewer/Date:**

SEVERN TRENT STL — STL St. Louis

CYANIDE DISTILLATION

Due Dates: Earliest: 12/1 Latest: 12/1 (Hold)	**Analyst/Run Date:** 12-13-06 (1)
Method #/Name: CN- / 9012, 9012A	**Sample Type:** (SOIL) WATER
Batch #: 6338185	
Lot #s: F6K180200	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	BLK	1g	50 ml	MA	MA	
2	LCS		50 ml			
3	HCS		50 ml			
4	JJ28J		50 ml			
5	JJ28J-D		50 ml			
6	JJ28J-S		50 ml			
7	JJ28P		50 ml			
8	JJ28V		50 ml			
9	JJ28W		50 ml			
10	JJ28X		50 ml			
11	JJ280		50 ml			
12	JJ282		50 ml			
13	JJ288		50 ml			
14	JJ29D		50 ml			
15	JJ29E		50 ml			
16						
~~17~~			50 ml			
18			50 ml			
19			50 ml			
~~20~~			50 ml			

Sent To TRAACS	YES	NO
Distilled Cyanide Samples	X	
Client Requirement Sheets	X	
Quantums Batch Sheets	X	
Distillation Prep STDlog	X	

Analyst/Date: 12-13-06

Reviewer/Date:

SEVERN TRENT STL STL St. Louis

CYANIDE DISTILLATION

Due Dates: Earliest: 12/1 HOLD Latest: 12/4	Analyst/Run Date: 12-13-06 (2)
Method #/Name: CN- / 9012, 9012A	Sample Type: SOIL WATER
Batch #: 6338185, 6338198	148-15
Lot #s: F6K180200, F6K210224	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	JJ29F	1g	50 ml	NA	NA	
2	JJ29F-D		50 ml			
3	JJ29F-S		50 ml			
4	BLK		50 ml			
5	LCS		50 ml			
6	HCS		50 ml			
7	JJ6MX		50 ml			
8	JJ6MX-D		50 ml			
9	JJ6MX-S		50 ml			
10	JJ6Q4		50 ml			
11	JJ6Q4-D		50 ml			
12	JJ6Q4-S		50 ml			
13	JJ6RJ		50 ml			
14	JJ6R1		50 ml			
15	JJ6TC	↓	50 ml	↓	↓	
16						
17	JJ8P5	↓	50 ml	↓	↓	
18			50 ml			
19			50 ml			
20			50 ml			

Sent To TRAACS	YES	NO
Distilled Cyanide Samples	X	
Client Requirement Sheets	X	
Quantums Batch Sheets	X	
Distillation Prep STDlog	X	

Analyst/Date: 12-13-06

Reviewer/Date:

SEVERN TRENT STL

STL St. Louis

CYANIDE DISTILLATION

Due Dates: Earliest: 12/4 Latest: 12/18 HOLD	**Analyst/Run Date:** DN 12-13-06 (3)
Method #/Name: CN- / 9012, 9012A	**Sample Type:** SOIL WATER
Batch #: 6338198, 6346474	
Lot #s: F6K210226, F6L020205	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	JJ8QK	1g	50 ml	NA	NA	
2	JJ8QK-D		50 ml			
3	JJ8QK-S		50 ml			
4	JJ8V6		50 ml			
5	JJ8WC		50 ml			
6	B/K	50ml	50 ml			
7	LCS		50 ml			
8	HCS		50 ml			
9	JKPNX		50 ml			
10	JKPN2		50 ml			
11	JKPN5		50 ml			
12	JKPN5-D		50 ml			
13	JKPN5-S		50 ml			
14	JKR62		50 ml			
15	JKR7D		50 ml			
16						
17			50 ml			
18			50 ml			
19			50 ml			
20			50 ml			

Sent To TRAACS	YES	NO
Distilled Cyanide Samples	X	
Client Requirement Sheets	X	
Quantums Batch Sheets	X	
Distillation Prep STDlog	X	

Analyst/Date: DN 12-13-06

Reviewer/Date:

STL St. Louis

CYANIDE DISTILLATION

Due Dates: Earliest: 11/29 HOLD Latest:	**Analyst/Run Date:** 12-13-06
Method #/Name: CN- / 9012, 9012A	**Sample Type:** (SOIL) WATER
Batch #: 63332744	
Lot #s: F6K160199	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	BLK	1g	50 ml	NA	NA	
2	LCS		50 ml			
3	LCS		50 ml			
4	JJT4R		50 ml			
5	JJT44		50 ml			
6	JJT47		50 ml			
7	JJT5C		50 ml			
8	JJT5K		50 ml			
9	JJT5Q		50 ml			
10	JJT55		50 ml			
11	JJT58		50 ml			
12	JJT64		50 ml			
13	JJT7F		50 ml			
14	JJT7Q		50 ml			
15	JJT8N		50 ml			
16						
17	JJT87		50 ml			
18	JJT9D		50 ml			
~~19~~			~~50 ml~~			
~~20~~			~~50 ml~~			

Sent To TRAACS		YES	NO
	Distilled Cyanide Samples	X	
	Client Requirement Sheets	X	
	Quantums Batch Sheets	X	
	Distillation Prep STDlog	X	

Analyst/Date: 12-13-06

Reviewer/Date:

SEVERN TRENT STL STL St. Louis

CYANIDE DISTILLATION

Due Dates: Earliest: 11/29 Latest: 11/30 HOLD	**Analyst/Run Date:** DT 12-14-06 (2)
Method #/Name: CN- / 9012, 9012A	**Sample Type:** (SOIL) WATER
Batch #: 6333274, 6333327	
Lot #s: FL6K160199, FL6K170247	

SEQUENCE NO.	SAMPLE NO.	SAMPLE Weight/Volume 1g—soil 50 ml water	FINAL VOLUME	Interference Checks Performed?		COMMENTS
1	JJ0QP	1g	50 ml	NR	NR	
2	JJ0QP-D		50 ml			
3	JJ0QP-S		50 ml			
4	Blk		50 ml			6333327 ↓
5	LCS		50 ml			
6	HCS		50 ml			
7	JJT9F		50 ml			
8	JJ0TH		50 ml			
9	JJ0TN		50 ml			
10	JJ0TV		50 ml			
11	JJ0TV-D		50 ml			
12	JJ0TV-S		50 ml			
13	JJ0V5		50 ml			
14	JJ0W6		50 ml			
15	JJ0WP	↓	50 ml	↓	↓	
16						
17	JJ0WQ		50 ml			
18	JJ0W3		50 ml			
~~19~~			~~50 ml~~			
~~20~~			~~50 ml~~			

Sent To TRAACS		YES	NO
	Distilled Cyanide Samples	✓	
	Client Requirement Sheets	✓	
	Quantums Batch Sheets	✓	
	Distillation Prep STDlog	✓	

Analyst/Date: DT 12-14-06

Reviewer/Date:

Page: 1

Order of Fit: First
Coefs: 1st: 0.000000 2nd: 8.965651

Report Date: 1/23/07
Analysis Date: 12/20/06
Data File: CN1220B
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.997629
Corr: 0.998814
Std. Dev.: 9.435125

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
1	P			509.48		15:34:31
2	W			2.63	I	15:35:47
3	S1			0.00	sI	15:37:03
4	S2			5.04	s	15:38:19
5	S3			19.71	s	15:39:33
6	S4			107.07	s	15:40:47
7	S5			240.63	s	15:42:02
8	S6			305.87	s	15:43:17
9	S7			382.72	s	15:44:33
10	S8			512.34	s	15:45:48
11	ICV			192.25		15:47:03
12	ICB			1.77	I	15:48:18
13	BLK			0.02	I	15:49:33
14	LCS			53.22		15:50:49
15	HCS			317.49		15:52:04
16	JJ28J			1.99	I	15:53:19
17	JJ28JD			89.57		15:54:34
18	JJ28JS			92.20		15:55:48
19	JJ28P			0.03	I	15:57:03
20	JJ28V			0.25	I	15:58:18
21	JJ28W			0.03	I	15:59:33
22	JJ28X			0.03	I	16:00:49
23	CCV			245.25		16:02:05
24	CCB			1.79	I	16:03:20
25	JJ280			0.03	I	16:04:35
26	JJ282			0.26	I	16:05:50
27	JJ288			0.04	I	16:07:05
28	JJ29D			0.04	I	16:08:20
29	JJ29E			0.04	I	16:09:35
30	JJ29F			1.36	I	16:10:50
31	JJ29FD			77.33		16:12:06
32	JJ29FS			93.53		16:13:21
33	BLK			6.83	I	16:14:36
34	LCS			85.87		16:15:51
35	CCV			261.47		16:17:06
36	CCB			6.62	I	16:18:21
37	HCS			278.11		16:19:36
38	JJ6MX			8.15	I	16:20:51
39	JJ6MXD			104.05		16:22:07
40	JJ6MXS			87.85		16:23:22
41	JJ6Q4			4.00	I	16:24:37
42	JJ6Q4D			67.71		16:25:52
43	JJ6Q4S			70.34		16:27:07
44	JJ6RJ			3.56	I	16:28:22
45	JJ6R1			3.35	I	16:29:37

Page: 2

Order of Fit: First
Coefs: 1st: 0.000000 2nd: 8.965651

Report Date: 1/23/07
Analysis Date: 12/20/06
Data File: CN1220B
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.997629
Corr: 0.998814
Std. Dev.: 9.435125

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
46	JJ6TC			0.28	I	16:30:52
47	CCV			259.73		16:32:07
48	CCB			0.29	I	16:33:22
49	JJ8P5			3.35	I	16:34:37
50	JJ8QK			0.29	I	16:35:52
51	JJ8QKD			86.33		16:37:08
52	JJ8QKS			88.74		16:38:23
53	JJ8V6			0.07	I	16:39:38
54	JJ8WC			0.08	I	16:40:53
55	BLK			0.08	I	16:42:08
56	LCS	6346474		88.31		16:43:24
57	HCS			346.66		16:44:39
58	JKPNX			2.71	I	16:45:54
59	CCV			239.82		16:47:09
60	CCB			1.62	I	16:48:24
61	JKPN2			0.00	-RI	16:49:40
62	JKPN5			3.37	I	16:50:56
63	JKPN5D			4.91		16:52:12
64	JKPN5S			40.59		16:53:25
65	JKR62			0.00	-RI	16:54:40
66	JKR7D			0.00	-RI	16:55:55
67	BLK			0.09	I	16:57:10
68	LCS			60.09		16:58:25
69	HCS			30.75		16:59:41
70	JJT4R	6333274		0.10	I	17:00:56
71	CCV			257.36		17:02:11
72	CCB			1.41	I	17:03:26
73	JJT44			5.36		17:04:41
74	JJT47			5.80		17:05:58
75	JJT5C			0.11	I	17:07:12
76	JJT5K			0.11	I	17:08:27
77	JJT5Q			0.11	I	17:09:42
78	JJT55			1.86	I	17:10:57
79	JJT58			0.11	I	17:12:12
80	JJT66			0.11	I	17:13:27
81	JJT7F			0.11	I	17:14:42
82	JJT7Q			0.12	I	17:15:57
83	CCV			257.59		17:17:12
84	CCB			1.87	I	17:18:27
85	JJT8N			0.00	-RI	17:19:42
86	JJT87			0.00	-RI	17:20:57
87	JJT9D			0.00	-RI	17:22:12
88	JJ0QP			2.53	I	17:23:27
89	JJ0QPD			85.95		17:24:43
90	JJ0QPS			110.04		17:25:58

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Order of Fit: First
Coefs: 1st: 0.000000 2nd: 8.965651

Report Date: 1/23/07
Analysis Date: 12/20/06
Data File: CN1220B
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

R^2: 0.997629
Corr: 0.998814
Std. Dev.: 9.435125

633327

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
91	BLK			4.29		17:27:16
92	LCS			82.67		17:28:28
93	HCS			238.34		17:29:43
94	JJT9F			3.20	I	17:30:58
95	CCV			254.98		17:32:14
96	CCB			0.13	I	17:33:29
97	JJ0TH			1.89	I	17:34:44
98	JJ0TN			2.11	I	17:35:59
99	JJ0TV			1.67	I	17:37:14
100	JJ0TVD			93.19		17:38:30
101	JJ0TVS			92.97		17:39:45
102	JJ0V5			3.21	I	17:41:00
103	JJ0WG			0.14	I	17:42:15
104	JJ0WP			0.15	I	17:43:31
105	JJ0WQ			0.59	I	17:44:47
106	JJ0W3			0.00	-RI	17:46:03
107	CCV			244.93		17:47:19
108	CCB			0.15	I	17:48:33
109	JJ0XF			3.00	I	17:49:47
110	JJ0X2			141.15	M	17:51:18
111	JJ0X5			306.67	M	17:52:11
112	JJ0X5D			0.00	-RI	17:53:26
113	JJ0X5S			0.00	-RI	17:54:41
114	BLK			0.00	-RI	17:55:56
115	LCS			0.00	-RI	17:57:11
116	HCS			0.00	-RI	17:58:26
117	JKM64			0.00	-RI	17:59:41
118	JKM64X			0.00	-RI	18:00:56
119	CCV			0.00	-RI	18:02:11
120	CCB			0.00	-RI	18:03:26
121	JKM64S			0.00	-RI	18:04:41
122	JKPM1			0.00	-RI	18:05:56
123	JKPM1X			0.00	-RI	18:07:11
124	JKPM1S			0.00	-RI	18:08:26
125	BLK			0.00	-RI	18:09:41
126	LCS			0.00	-RI	18:10:56
127	HCS			0.00	-RI	18:12:11
128	JKR7F			0.00	-RI	18:13:26
129	JKR7G			0.00	-RI	18:14:41
130	JKR7GD			0.00	-RI	18:15:56
131	CCV			0.00	-RI	18:17:11
132	CCB			0.00	-RI	18:18:26
133	JKR7GS			0.00	-RI	18:19:41
134	JKR7T			0.00	-RI	18:20:56
135	JKWQM			0.00	-RI	18:22:11

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Order of Fit: First
Coefs: 1st: 0.000000 2nd: 8.965651

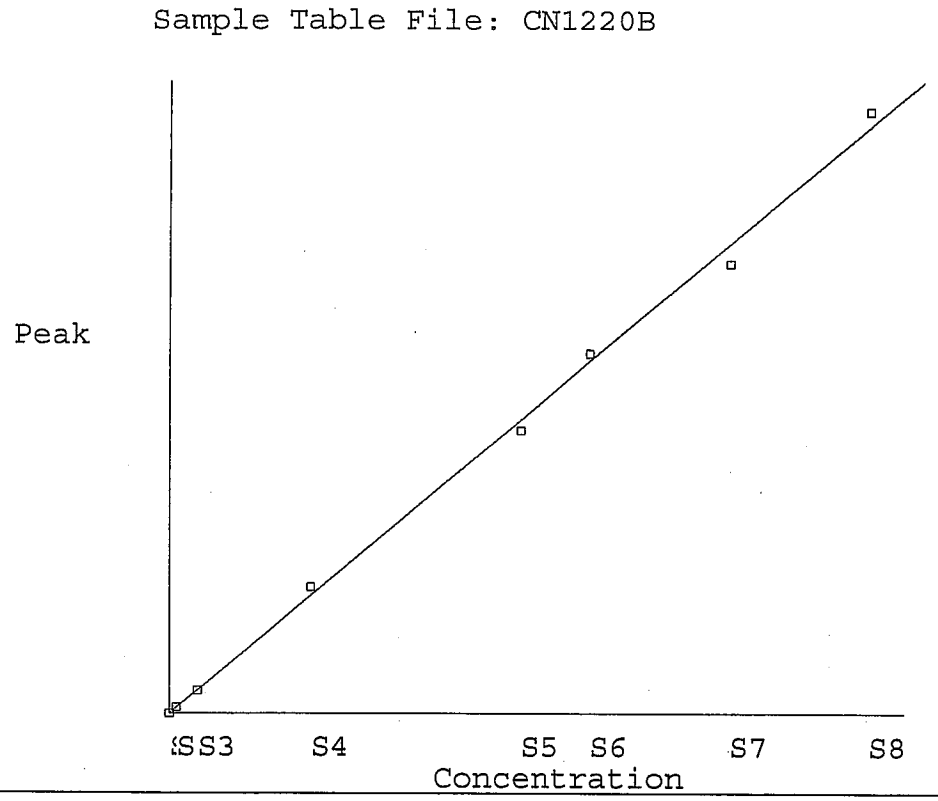
Report Date: 1/23/07
Analysis Date: 12/20/06
Data File: CN1220B
Method Name: CYANIDE
Units: ug/L
Description: Cyanide

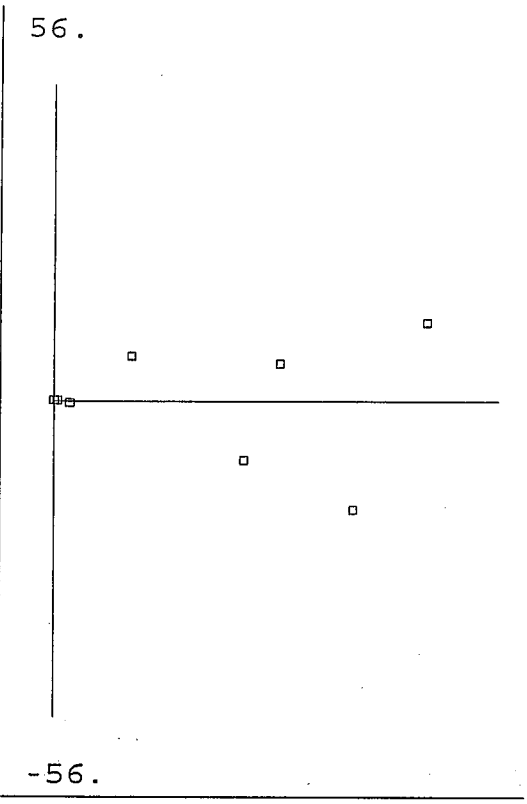
R^2: 0.997629
Corr: 0.998814
Std. Dev.: 9.435125

Sample	Sample ID	Dilution	Weight	Corr. Conc.	Flags	Time
136	JKWVW			0.00	-RI	18:23:26
137	JKWWK			0.00	-RI	18:24:41
138	JKWWQ			0.00	-RI	18:25:56
139	JK163			0.00	-RI	18:27:11
140	JK17W			0.00	-RI	18:28:26
141	JK173			0.00	-RI	18:29:41
142	JK176			0.00	-RI	18:30:56
143	CCV			0.00	-RI	18:32:11
144	CCB			0.00	-RI	18:33:26
145	JK177			0.00	-RI	18:34:41
146	JK178			0.00	-RI	18:35:56
147	JK4XW			0.00	-RI	18:37:11
148	JK40F			0.00	-RI	18:38:26
149	JK40P			0.00	-RI	18:39:41
150	JK40V			0.00	-RI	18:40:56
151	JKR78			0.00	-RI	18:42:11
152	CCV			0.00	-RI	18:43:26
153	CCB			0.00	-RI	18:44:41
154	HIGH			0.00	-RI	18:45:56
155	BLK			0.00	-RI	18:47:11

1/25/07 17:55 Standard Set #1:

Data File: CN1220B
Method File: CYANIDE
Sample Table File: CN1220B





S#	Peak	Value	Calc	Residual
S1	0.00	0.00	0.00	0.00
S2	0.56	5.00	5.04	0.04
S3	2.20	20.00	19.71	-0.29
S4	11.94	100.00	107.07	7.07
S5	26.84	250.00	240.63	-9.37
S6	34.12	300.00	305.87	5.87
S7	42.69	400.00	382.72	-17.28
S8	57.14	500.00	512.34	12.34

Coefficients:

Intercept :	0
Slope :	8.96565
Std Dev :	9.43513
Corr Coef :	0.998814
R^2 :	0.997629

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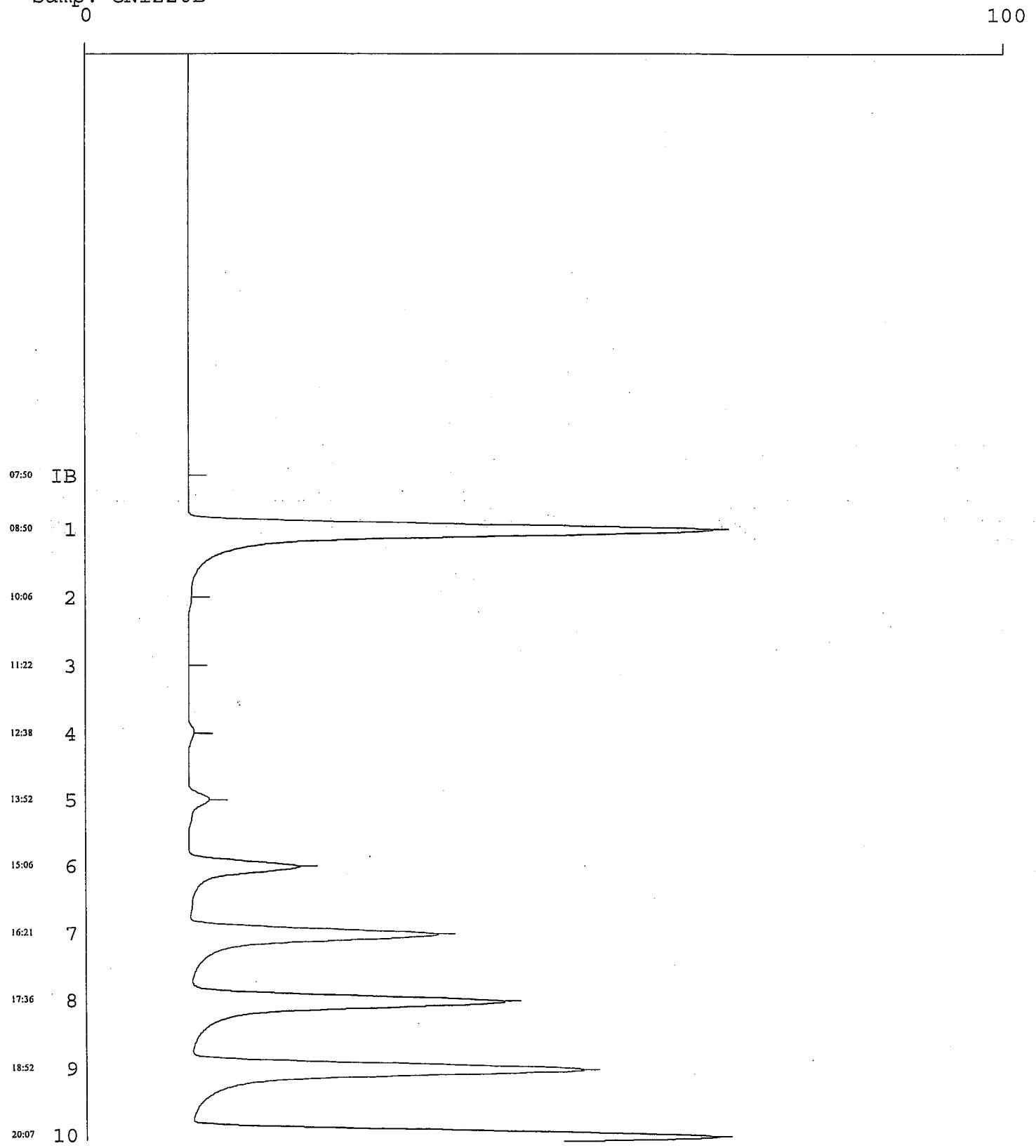
Page:1

Data: CN1220B
Mthd: CYANIDE
Samp: CN1220B



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Page:2

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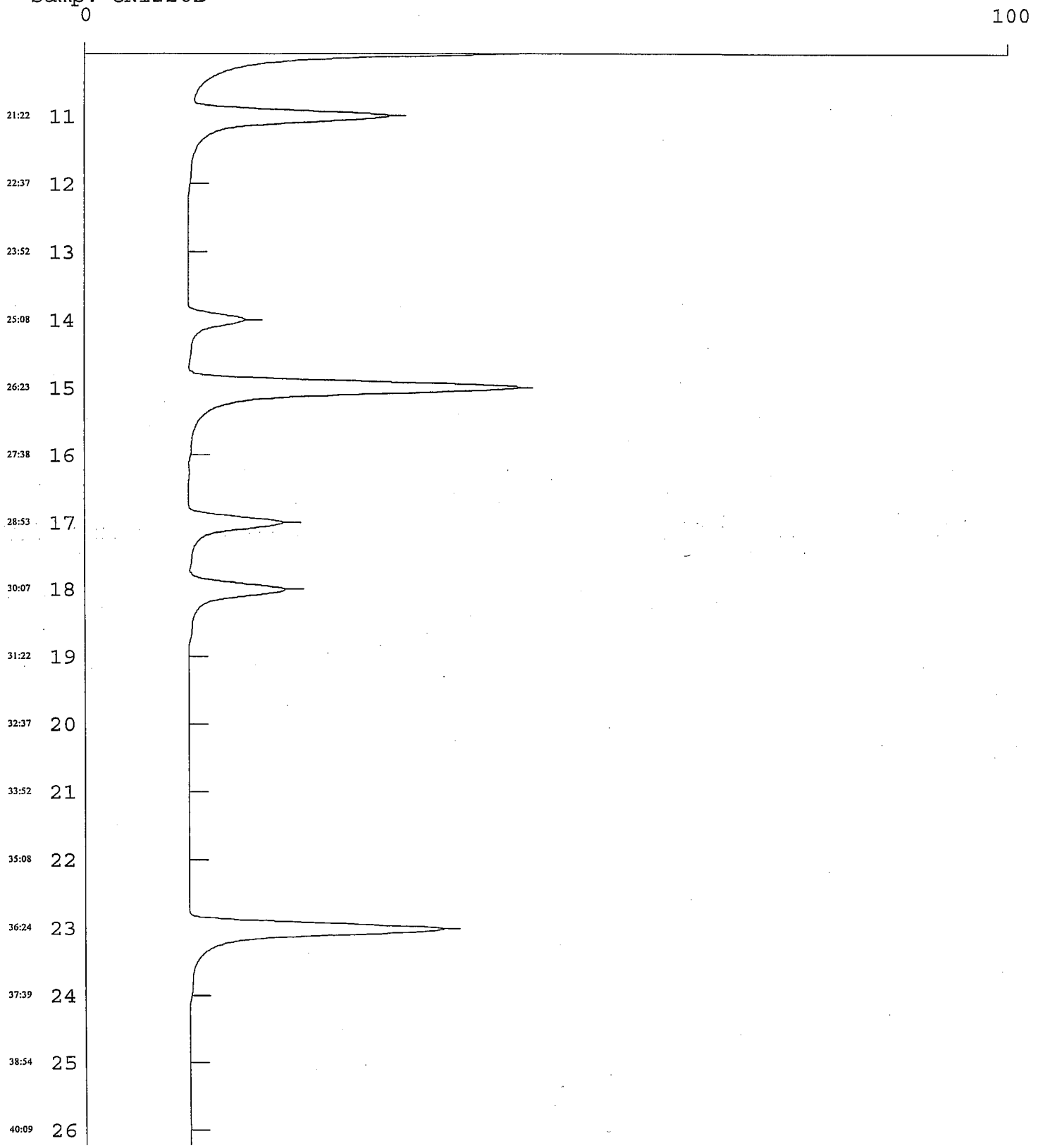
Mthd: CYANIDE
Samp: CN1220B



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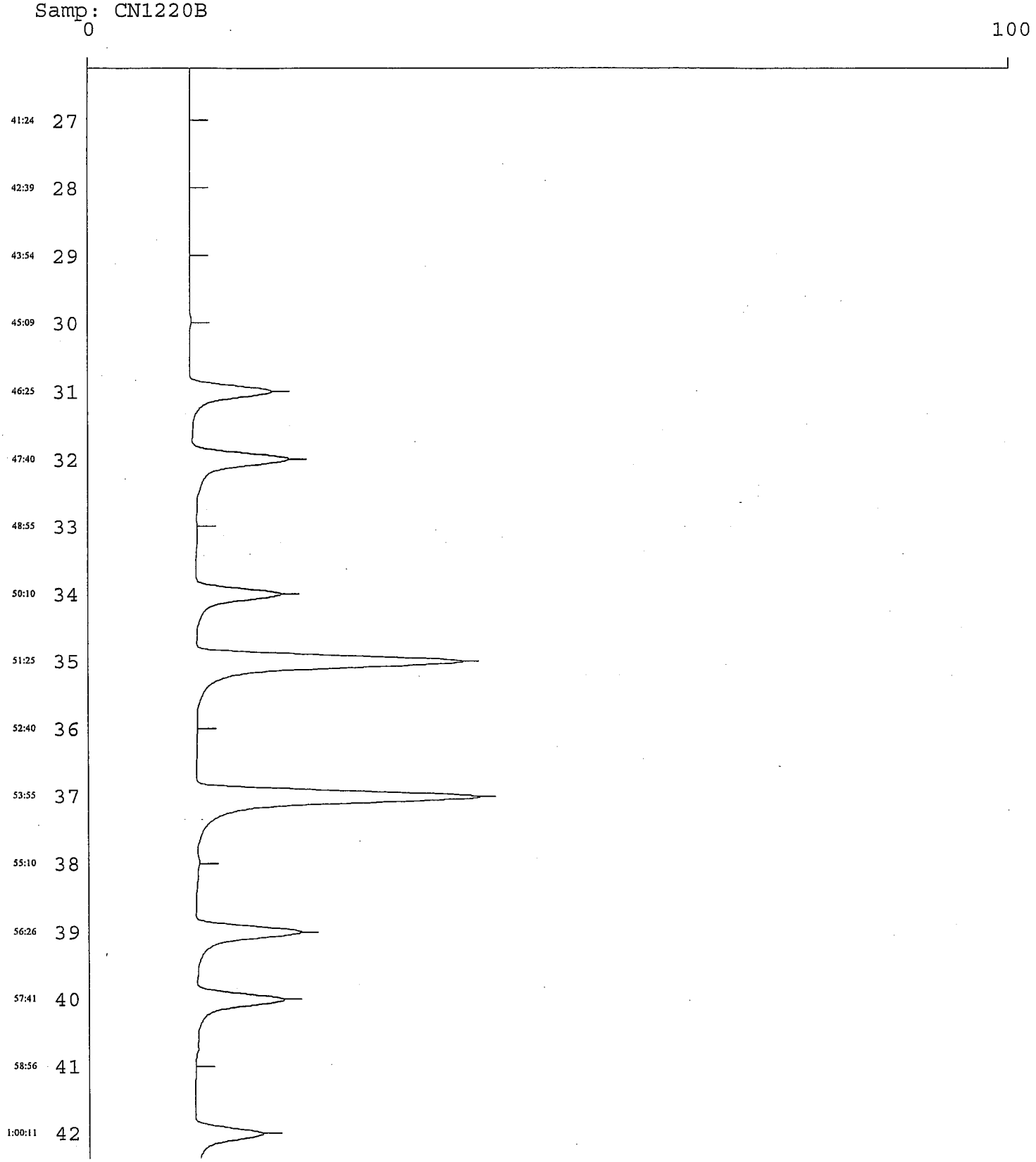
Samp: CN1220B



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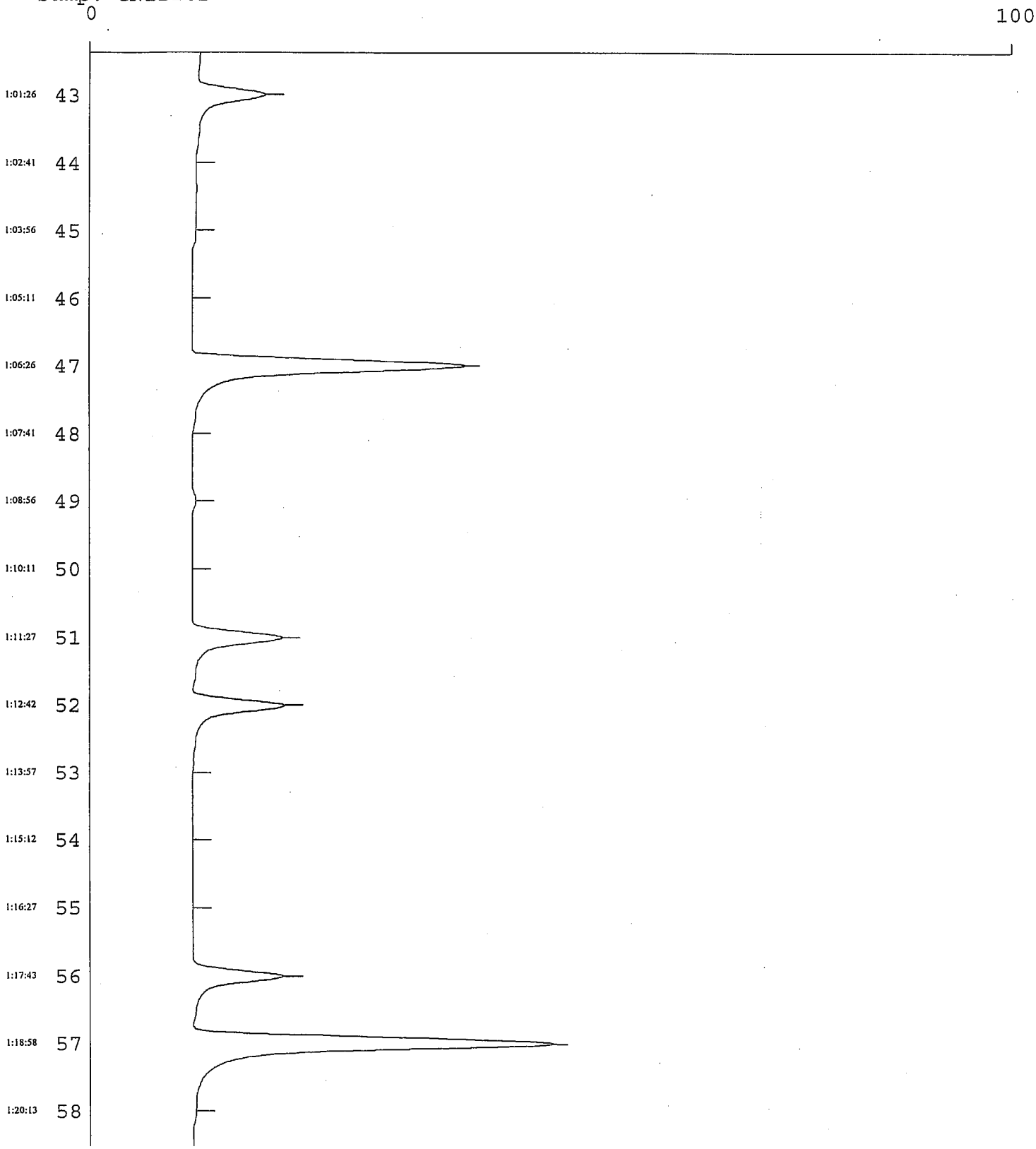
Mthd: CYANIDE
Samp: CN1220B



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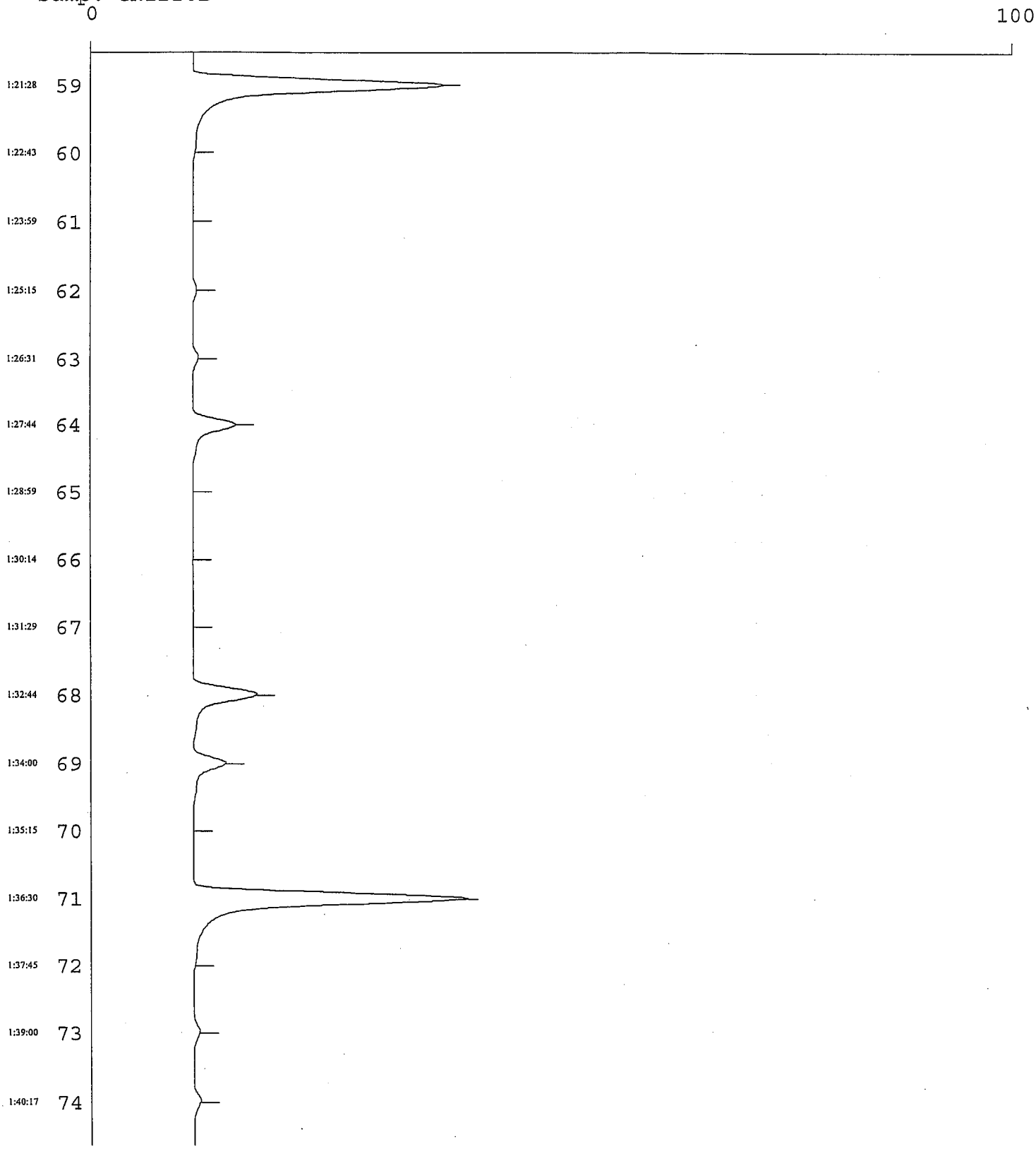
Mthd: CYANIDE
Samp: CN1220B



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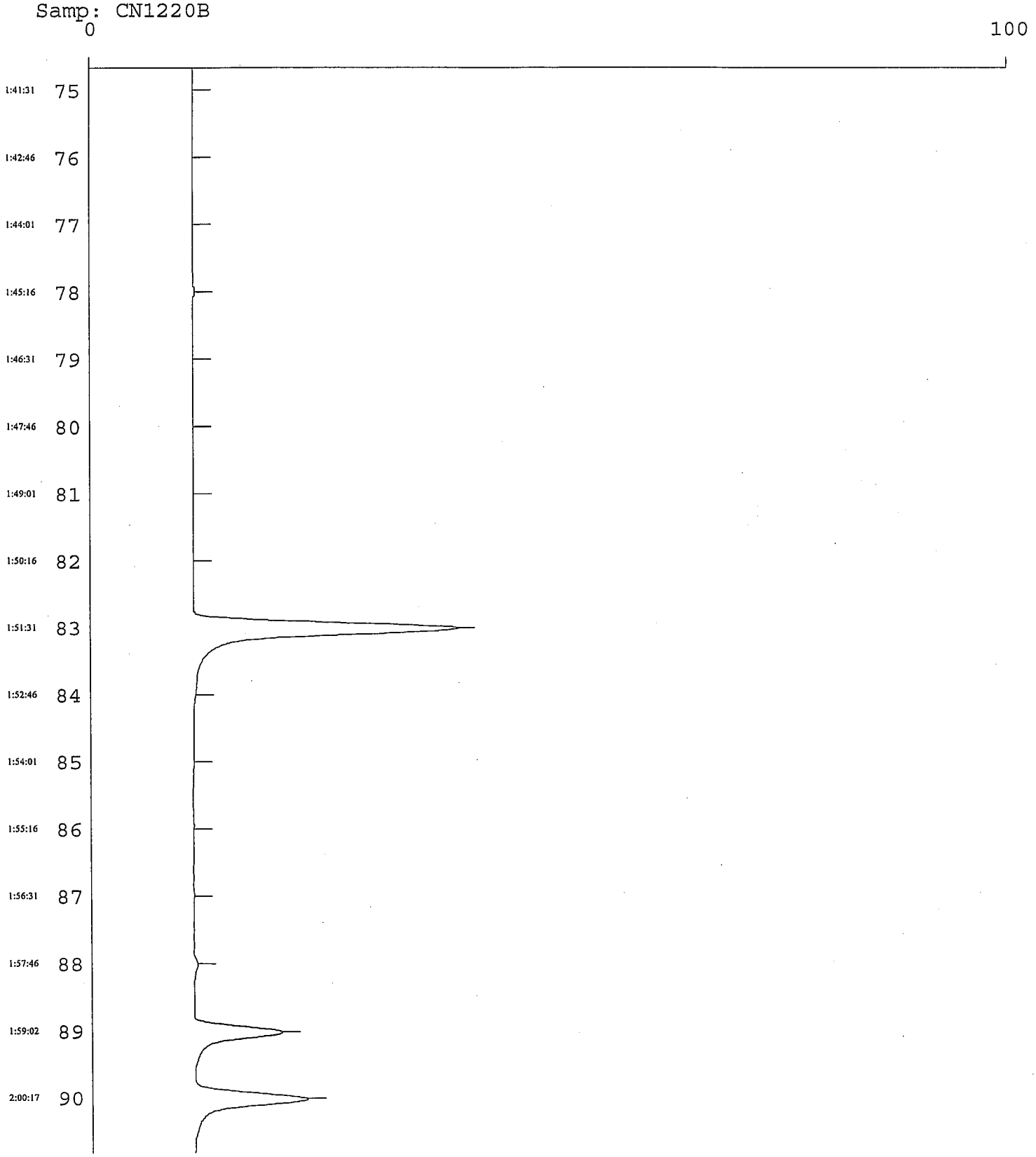
Samp: CN1220B



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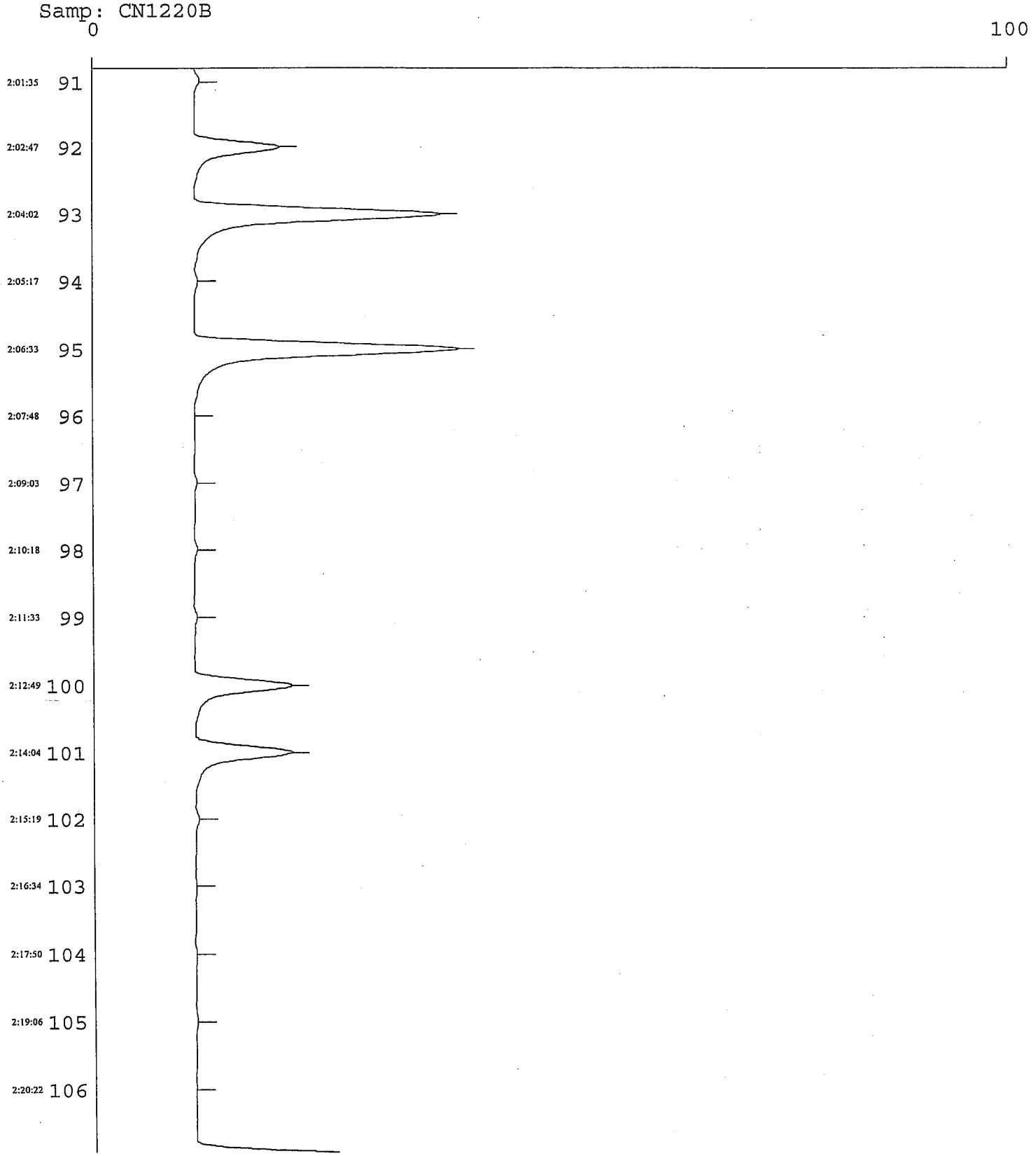
Mthd: CYANIDE
Samp: CN1220B



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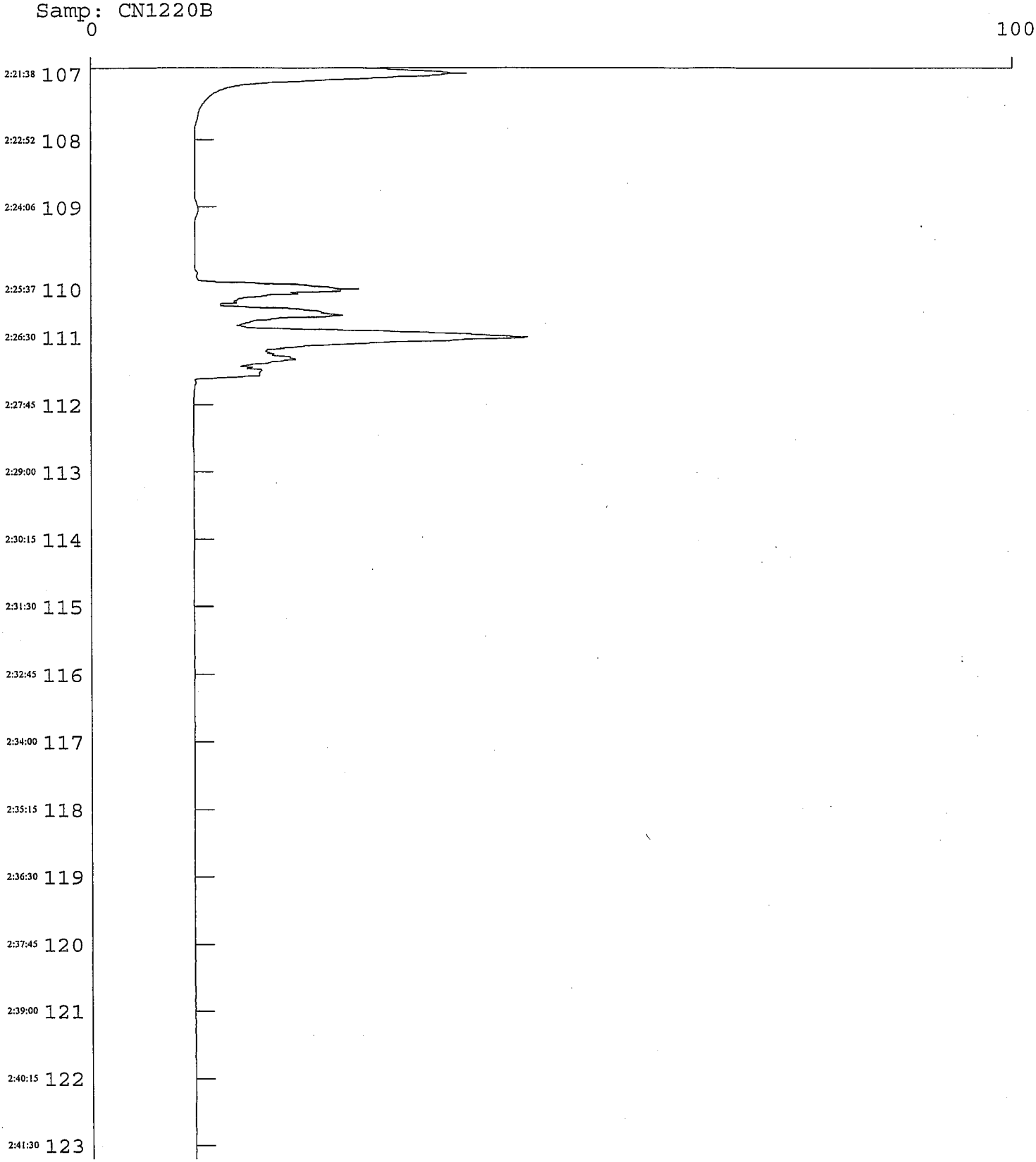
Mthd: CYANIDE
Samp: CN1220B



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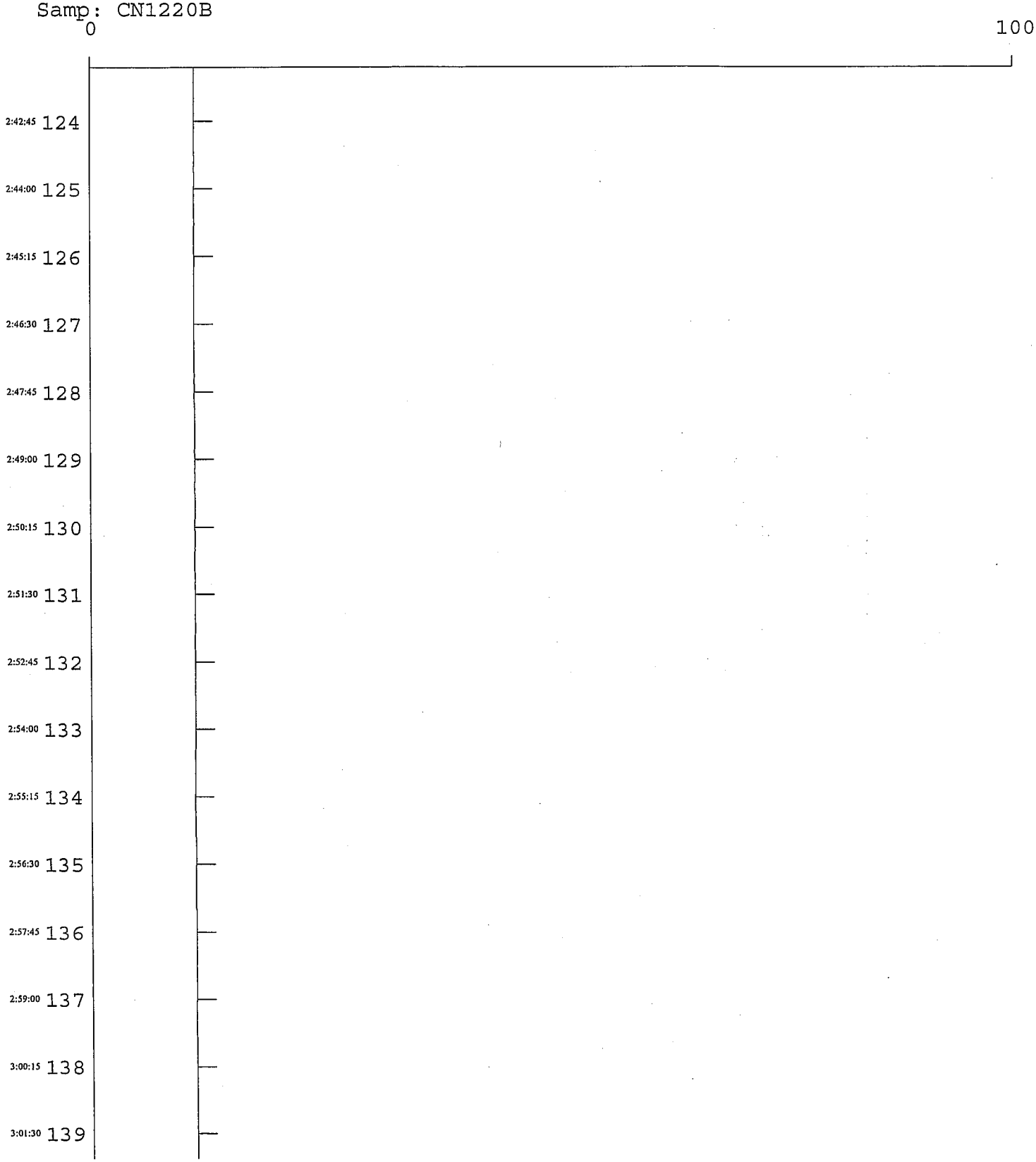

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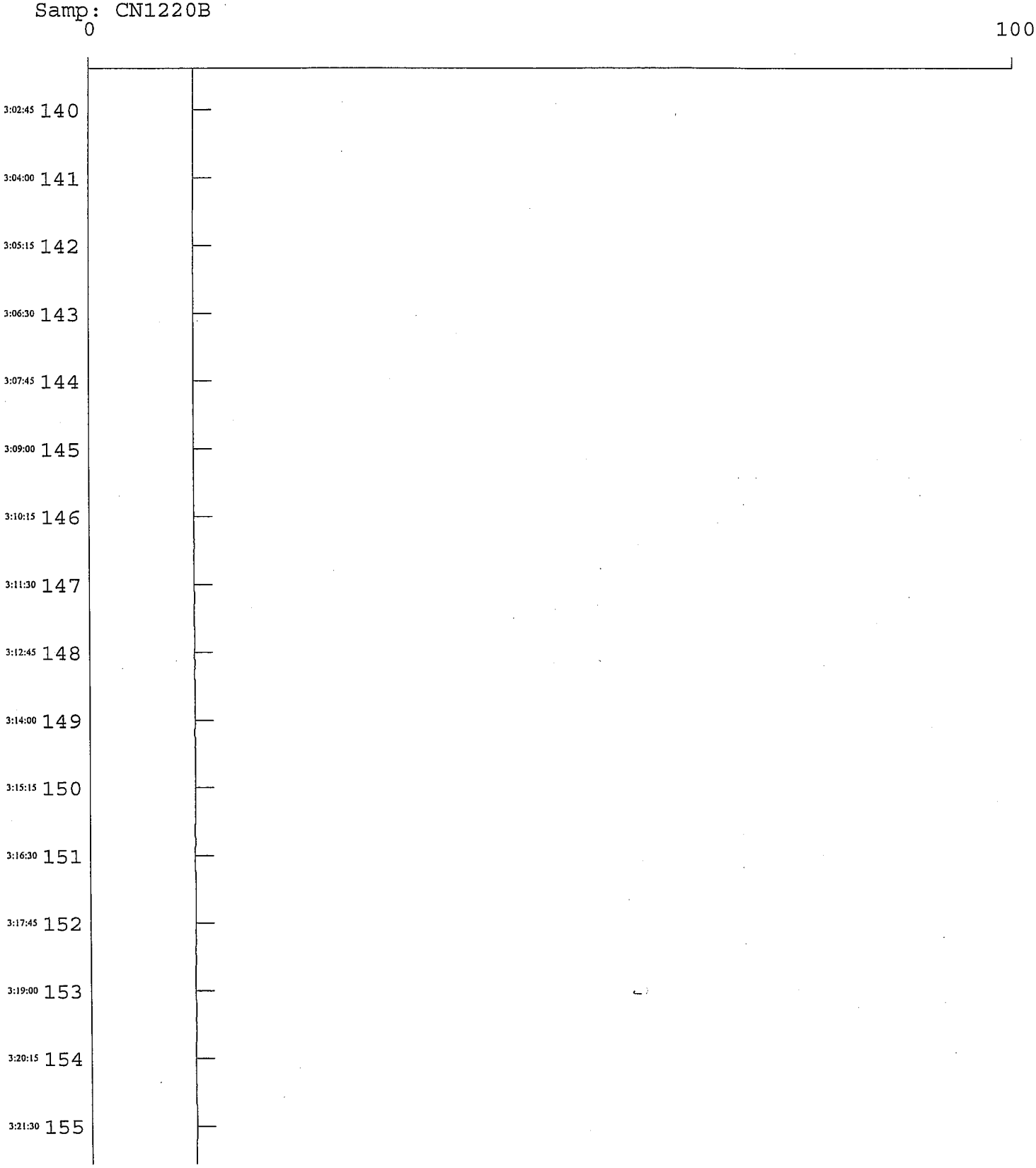

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Data: CN1220B
Mthd: CYANIDE
Samp: CN1220B