Supporting Raw Data

Classical Chemistry

Lot # EQT060359

001075

STL Los Angeles
pH Worksheet

Method: 150.1/9040B ___ 9045C ✓
Instr ID: W07
Serial No: C0024955
Location: Extraction Lab.

Analysis Date: 10/07/00
Analyst Int: DB
Reviewer/Date: 10/09/00

Instrument Maintenance Checks:

Daily:

✓ Check proper level of filling solution
✓ Store electrode in buffer

As Needed:

___ Clean electrode
___ Add filling solutions to electrode

BATCH # 028X137

Calibration Curve

Stock Source ID#	Stock Conc.	Instrument Reading	Temp Reading	Comments	Start time:
VWR 9910006	4	4.00	20.6		1130
JT BAKER N24516	7	7.02	20.6		1133
VWR 9910132	10	~~10/10 10.02~~ 10.05	20.8		1136
PH1-35	9.18 ICV/LCS	9.17	20.6		1139

Sample ID	Matrix A – S	Solid Samples		Instrument Reading		Comments	Start time:
		Wt (g)	mL (DI)	pH	Temp ©		
ICV/LCS							
DLQ2E	S	20.0 g	20.0 ml	8.99	20.5	E0J060359	1142
DLQ2EX	↓	20.0 g	20.0 ml	8.86	20.6	↓	1145
DLQ2F	↓	20.0 g	20.0 ml	8.48	20.6	↓	1148
DLQ2G	↓	20.0 g	20.0 ml	8.45	20.7	↓	1151
pH 7.0				7.00	20.9		1154
						10/7/00	

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03/23/00

Supporting Raw Data

Metals

Lot # E0J060359

STL Los Angeles
Précis
CVAA Data Summary Cover Sheet

Instrument ID: ICPT - M01

Analyst: KT
Analytical Date: 10/10/00

Analysis by SOP: 6010B - 200.7 - CORP-MT-0001 Rev 2 ✓

Data File: P101000

Batch	Lot/Project	Data Upload	Review/Release	Pkg.
0284129	DLQFGB (MB)			
	EOJ060286			
	(DLPAQ → DLPAW 3X)			
0283475	EOJ070299			
	EOJ040324			
	EOJ050314			
0283479	EOJ060329			
0283485	EOJ060355			
	EOJ060359			
	EOJ100197			

Standards

Calibration Stds:	**Lot #**	**Calibration Check Stds:**	**Lot #**
1. Blank	100300-T1	ICV	100300-T4
2. STD1	100300-T2	CCV	100300-T5
3.		ICSA	100300-T7
4.		ICSAB -4-0	100300-T8
5.		5.	
6.		6.	

Notes/Comments:

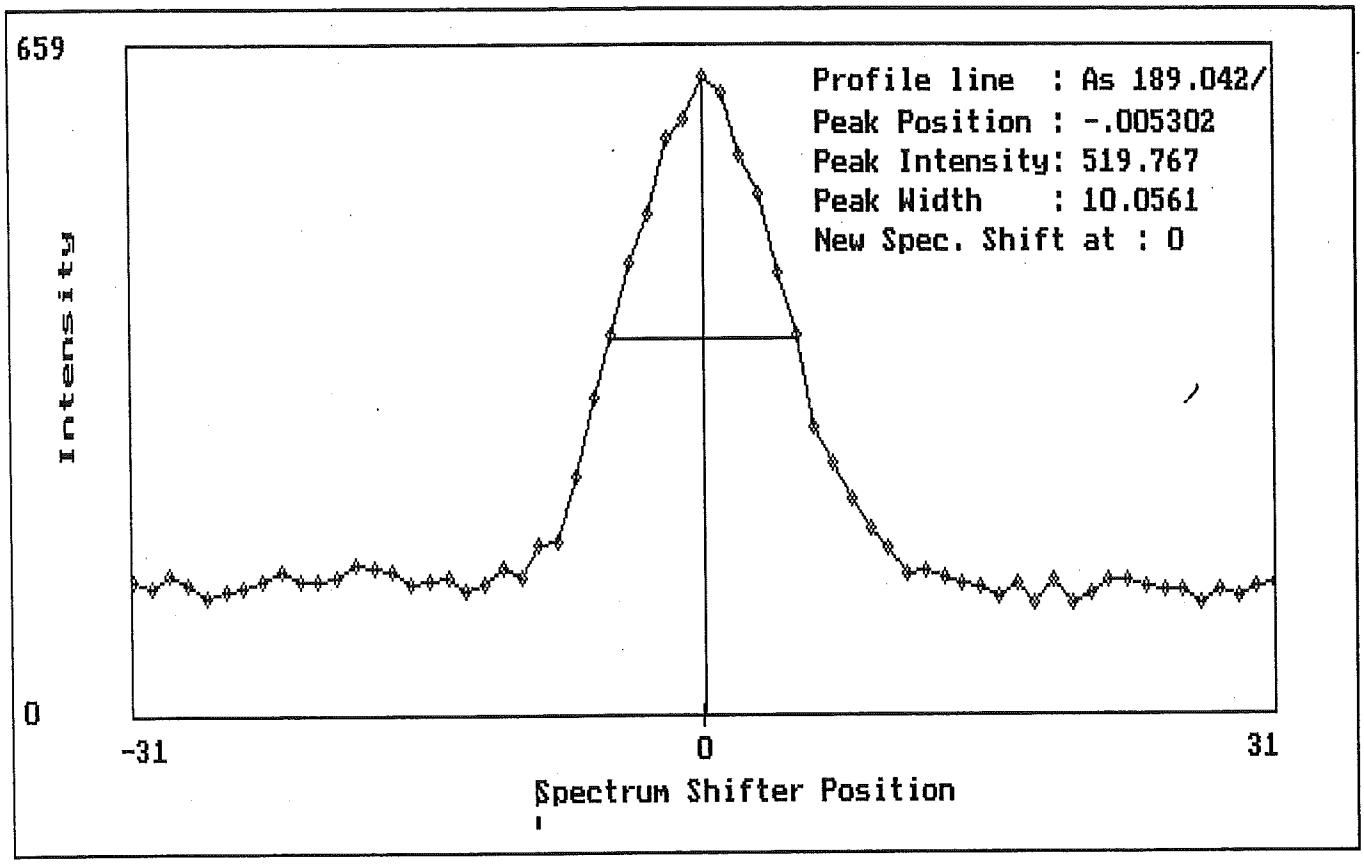
N:\metals\forms\dscs.doc
09/08/00

001078

BOE-C6-0176534

	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STDBLK	P101000	QTESTNAK	10/10/00	18:04		X	IR
2	STD1	P101000	QTESTNAK	10/10/00	18:11		X	IR
3	ICVHP	P101000	QTESTNAK	10/10/00	18:17	KT	S	CONC
4	ICB	P101000	QTESTNAK	10/10/00	18:25	KT	S	CONC
5	ICSA	P101000	QTESTNAK	10/10/00	18:31	KT	S	CONC
6	ICSAB4.0	P101000	QTESTNAK	10/10/00	18:39	KT	S	CONC
7	TEST-CRI	P101000	QTESTNAK	10/10/00	18:49	KT	S	CONC
8	DLQFGB-0281129	P101000	QTESTNAK	10/10/00	18:58	KT	S	CONC
9	DLPAQ 3X	P101000	QTESTNAK	10/10/00	19:03	KT	S	CONC
10	DLPAR 3X	P101000	QTESTNAK	10/10/00	19:12	KT	S	CONC
11	DLPAV 3X	P101000	QTESTNAK	10/10/00	19:20	KT	S	CONC
12	DLPAW 3X	P101000	QTESTNAK	10/10/00	19:28	KT	S	CONC
13	CCVT	P101000	QTESTNAK	10/10/00	19:38	KT	S	CONC
14	CCBT	P101000	QTESTNAK	10/10/00	19:48	KT	Q	CONC
15	DLRX4B-0283475	P101000	QTESTNAK	10/10/00	19:54	KT	S	CONC
16	DLRX4C	P101000	QTESTNAK	10/10/00	20:00	KT	S	CONC
17	DK2CD	P101000	QTESTNAK	10/10/00	20:08	KT	S	CONC
18	DK2CF Zn	P101000	QTESTNAK	10/10/00	20:16	KT	S	CONC
19	DK2CH	P101000	QTESTNAK	10/10/00	20:24	KT	S	CONC
20	DK2CM	P101000	QTESTNAK	10/10/00	20:32	KT	S	CONC
21	DK2CQ	P101000	QTESTNAK	10/10/00	20:40	KT	S	CONC
22	DLJLT	P101000	QTESTNAK	10/10/00	20:55	KT	S	CONC
23	DLJLTP	P101000	QTESTNAK	10/10/00	21:01	KT	S	CONC
4	DLJLTS	P101000	QTESTNAK	10/10/00	21:07	KT	S	CONC
25	CCVT	P101000	QTESTNAK	10/10/00	21:15	KT	S	CONC
26	CCBT	P101000	QTESTNAK	10/10/00	21:23	KT	Q	CONC
27	DLJLTD	P101000	QTESTNAK	10/10/00	21:29	KT	S	CONC
28	DLJLW	P101000	QTESTNAK	10/10/00	21:37	KT	S	CONC
29	DLJLX	P101000	QTESTNAK	10/10/00	21:43	KT	S	CONC
30	DLJM1	P101000	QTESTNAK	10/10/00	21:53	KT	S	CONC
31	DLJM3	P101000	QTESTNAK	10/10/00	22:01	KT	S	CONC
32	DLJM5	P101000	QTESTNAK	10/10/00	22:09	KT	S	CONC
33	DLJM7	P101000	QTESTNAK	10/10/00	22:18	KT	S	CONC
34	DLJM9	P101000	QTESTNAK	10/10/00	22:26	KT	S	CONC
35	DLJMC	P101000	QTESTNAK	10/10/00	22:34	KT	S	CONC
36	DLPFK	P101000	QTESTNAK	10/10/00	22:42	KT	S	CONC
37	CCVT	P101000	QTESTNAK	10/10/00	22:48	KT	S	CONC
38	CCBT	P101000	QTESTNAK	10/10/00	22:56	KT	Q	CONC
39	DLPH4	P101000	QTESTNAK	10/10/00	23:02	KT	S	CONC
40	DLPJR	P101000	QTESTNAK	10/10/00	23:10	KT	S	CONC
41	DLPK3	P101000	QTESTNAK	10/10/00	23:16	KT	S	CONC
42	DLPK8	P101000	QTESTNAK	10/10/00	23:24	KT	S	CONC
43	CCVT	P101000	QTESTNAK	10/10/00	23:30	KT	S	CONC
44	CCBT.	P101000	QTESTNAK	10/10/00	23:38	KT	Q	CONC
45	DLRXCB-0283479 Pb low	P101000	QTESTNAK	10/10/00	23:44	KT	S	CONC
46	DLRXCC	P101000	QTESTNAK	10/10/00	23:50	KT	S	CONC
47	DLPGD	P101000	QTESTNAK	10/10/00	23:58	KT	S	CONC
48	DLPGDP	P101000	QTESTNAK	10/11/00	00:04	KT	S	CONC
49	DLPGDS	P101000	QTESTNAK	10/11/00	00:10	KT	S	CONC
50	DLPGDD	P101000	QTESTNAK	10/11/00	00:18	KT	S	CONC
51	DLPHC	P101000	QTESTNAK	10/11/00	00:26	KT	S	CONC
52	DLPHE	P101000	QTESTNAK	10/11/00	00:34	KT	S	CONC
53	DLPHF	P101000	QTESTNAK	10/11/00	00:40	KT	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	DLPHL	P101000	QTESTNAK	10/11/00	00:46	KT	S	CONC
55	CCVT	P101000	QTESTNAK	10/11/00	00:54	KT	S	CONC
56	CCBT.	P101000	QTESTNAK	10/11/00	01:02	KT	Q	CONC
57	DLPHN	P101000	QTESTNAK	10/11/00	01:08	KT	S	CONC
58	DLPHQ	P101000	QTESTNAK	10/11/00	01:14	KT	S	CONC
59	DLPHX	P101000	QTESTNAK	10/11/00	01:20	KT	S	CONC
60	DLPJ3	P101000	QTESTNAK	10/11/00	01:28	KT	S	CONC
61	DLPJ5	P101000	QTESTNAK	10/11/00	01:34	KT	S	CONC
62	DLPJ8	P101000	QTESTNAK	10/11/00	01:40	KT	S	CONC
63	DLPJA	P101000	QTESTNAK	10/11/00	01:48	KT	S	CONC
64	DLPJC	P101000	QTESTNAK	10/11/00	01:55	KT	S	CONC
65	DLPJF	P101000	QTESTNAK	10/11/00	02:03	KT	S	CONC
66	DLPJJ	P101000	QTESTNAK	10/11/00	02:09	KT	S	CONC
67	CCVT	P101000	QTESTNAK	10/11/00	02:15	KT	S	CONC
68	CCBT.	P101000	QTESTNAK	10/11/00	02:23	KT	Q	CONC
69	DLPJL	P101000	QTESTNAK	10/11/00	02:29	KT	S	CONC
70	DLPJN	P101000	QTESTNAK	10/11/00	02:35	KT	S	CONC
71	DLPJT	P101000	QTESTNAK	10/11/00	02:41	KT	S	CONC
72	DLPJV	P101000	QTESTNAK	10/11/00	02:49	KT	S	CONC
73	CCVT	P101000	QTESTNAK	10/11/00	02:55	KT	S	CONC
74	CCBT'	P101000	QTESTNAK	10/11/00	03:03	KT	Q	CONC
75	DLRXHB-0283485	P101000	QTESTNAK	10/11/00	03:09	KT	S	CONC
76	DLRXHC	P101000	QTESTNAK	10/11/00	03:15	KT	S	CONC
77	DLPWC	P101000	QTESTNAK	10/11/00	03:24	KT	S	CONC
8	DLPWCP	P101000	QTESTNAK	10/11/00	03:32	KT	S	CONC
79	DLPWCS	P101000	QTESTNAK	10/11/00	03:38	KT	S	CONC
80	DLPWCD	P101000	QTESTNAK	10/11/00	03:46	KT	S	CONC
81	DLPWK	P101000	QTESTNAK	10/11/00	03:54	KT	S	CONC
82	DLPWP	P101000	QTESTNAK	10/11/00	04:00	KT	S	CONC
83	DLPX2	P101000	QTESTNAK	10/11/00	04:06	KT	S	CONC
84	DLPX4	P101000	QTESTNAK	10/11/00	04:12	KT	S	CONC
85	CCVT	P101000	QTESTNAK	10/11/00	04:18	KT	S	CONC
86	CCBT'	P101000	QTESTNAK	10/11/00	04:26	KT	Q	CONC
87	DLQ12	P101000	QTESTNAK	10/11/00	04:32	KT	S	CONC
88	DLQ1X	P101000	QTESTNAK	10/11/00	04:38	KT	S	CONC
89	DLQ22	P101000	QTESTNAK	10/11/00	04:45	KT	S	CONC
90	DLQ25	P101000	QTESTNAK	10/11/00	04:51	KT	S	CONC
91	DLQ28	P101000	QTESTNAK	10/11/00	04:57	KT	S	CONC
92	DLQ2A	P101000	QTESTNAK	10/11/00	05:03	KT	S	CONC
93	DLQ2C	P101000	QTESTNAK	10/11/00	05:11	KT	S	CONC
94	DLQ2E	P101000	QTESTNAK	10/11/00	05:17	KT	S	CONC
95	DLQ2F	P101000	QTESTNAK	10/11/00	05:23	KT	S	CONC
96	DLQ2G	P101000	QTESTNAK	10/11/00	05:29	KT	S	CONC
97	CCVT	P101000	QTESTNAK	10/11/00	05:35	KT	S	CONC
98	CCBT,	P101000	QTESTNAK	10/11/00	05:43	KT	Q	CONC
99	DLQ2H	P101000	QTESTNAK	10/11/00	05:49	KT	S	CONC
100	DLQ2J	P101000	QTESTNAK	10/11/00	05:57	KT	S	CONC
101	DLQ2L	P101000	QTESTNAK	10/11/00	06:03	KT	S	CONC
102	DLQ2N	P101000	QTESTNAK	10/11/00	06:09	KT	S	CONC
03	DLVEG	P101000	QTESTNAK	10/11/00	06:15	KT	S	CONC
104	DK2CF 7X for ZW	P101000	QTESTNAK	10/11/00	06:21	KT	S	CONC
105	CCVT	P101000	QTESTNAK	10/11/00	06:29	KT	S	CONC
106	CCBT'	P101000	QTESTNAK	10/11/00	06:37	KT	Q	CONC


659
Intensity
0
-31
0
31
Spectrum Shifter Position
Profile line : As 189.042/
Peak Position : -.005302
Peak Intensity: 519.767
Peak Width : 10.0561
New Spec. Shift at : 0

10/10/00

Method: QTESTNAK Standard: STDBLK
Run Time: 10/10/00 18:04:35

Elem	Al3082	As1890	Ba4934	Be3130	Cd_tr	Ca3179	Cr_tr
Avge	.08041	-.02053	.00017	.00017	.02558	.00234	.00451
SDev	.00022	.01550	.00024	.00024	.00022	.00004	.00063
%RSD	.27986	75.469	141.42	141.42	.85404	1.7783	13.955
#1	.08057	-.00958	.00000	.00000	.02542	.00231	.00495
#2	.08025	-.03149	.00034	.00034	.02573	.00237	.00406

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Mo2020	Ni2316
Avge	-.00017	.01054	.00182	.00300	.00033	.00033	-.00017
SDev	.00023	.00042	.00210	.00089	.00001	.00001	.00024
%RSD	141.42	4.0223	115.11	29.732	1.7783	1.7783	141.42
#1	-.00033	.01024	.00330	.00363	.00033	.00033	.00000
#2	.00000	.01084	.00034	.00237	.00034	.00034	-.00034

Elem	Ag_tr	Na3302	Tl1908	Ti3349	V_2924	Zn2138	Sn1899
Avge	.00000	-.00370	-.02319	-.00100	.00066	.00083	-.00066
SDev	.00000	.00196	.01412	.00002	.00046	.00022	.00046
%RSD	.00000	52.962	60.894	1.7783	69.369	26.573	69.369
#1	.00000	-.00231	-.01321	-.00099	.00099	.00099	-.00099
#2	.00000	-.00508	-.03318	-.00102	.00034	.00068	-.00034

Elem	2068_1	2068_2	2203_1	2203_2	1960_1	1960_2	B_2496
Avge	.00017	.00083	.03915	.00847	-.01288	.00953	.0000
SDev	.00071	.00022	.06004	.00576	.00094	.00041	.0000
%RSD	410.55	26.573	153.35	67.965	7.2846	4.2584	.0000
#1	-.00033	.00099	-.00330	.01255	-.01222	.00925	.0000
#2	.00068	.00068	.08160	.00440	-.01354	.00982	.0000

Elem	Sr4215	Si2881
Avge	.0002	.0604
SDev	.0002	.0013
%RSD	141.4	2.170
#1	.0003	.0594
#2	.0000	.0613

IntStd de	1 Counts	2 NOTUSED	3 NOTUSED	4 NOTUSED	5 NOTUSED	6 NOTUSED	7 NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	5982	--	--	--	--	--	--
SDev	106.3771	--	--	--	--	--	--
%RSD	1.778293	--	--	--	--	--	--
#1	6057	--	--	--	--	--	--
#2	5907	--	--	--	--	--	--

Method: QTESTNAK Standard: STD1
Run Time: 10/10/00 18:11:07

Elem	Al3082	As1890	Ba4934	Be3130	Cd_tr	Ca3179	Cr_tr
Avge	16.776	2.3986	3.8776	7.5707	19.504	2.8765	9.3929
SDev	.009	.0000	.0103	.0014	.034	.0002	.0311
%RSD	.05658	.00127	.26439	.01818	.17448	.00742	.33152
#1	16.769	2.3985	3.8703	7.5716	19.480	2.8766	9.3709
#2	16.782	2.3986	3.8848	7.5697	19.528	2.8763	9.4149

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Mo2020	Ni2316
Avge	1.3057	3.3170	3.7948	23.949	4.0187	.51281	1.3987
SDev	.0033	.0016	.0061	.080	.0121	.00698	.0042
%RSD	.25646	.04855	.16011	.33383	.30195	1.3612	.29951
#1	1.3033	3.3159	3.7905	23.892	4.0101	.50787	1.3958
#2	1.3080	3.3181	3.7991	24.005	4.0272	.51774	1.4017

Elem	Ag_tr	Na3302	Tl1908	Ti3349	V_2924	Zn2138	Sn1899
Avge	6.5196	3.9721	2.7105	2.4236	2.0035	1.1993	.20996
SDev	.0088	.0097	.0011	.0038	.0004	.0035	.00127
%RSD	.13501	.24499	.04172	.15573	.01911	.29059	.60370
#1	6.5133	3.9652	2.7113	2.4210	2.0038	1.1968	.21085
#2	6.5258	3.9790	2.7097	2.4263	2.0033	1.2018	.20906

Elem	2068_1	2068_2	2203_1	2203_2	1960_1	1960_2	B_2496
Avge	1.4618	.73310	5.9706	2.4769	.32089	.41834	.6616
SDev	.0002	.00102	.0127	.0108	.00536	.00316	.0039
%RSD	.01409	.13840	.21298	.43480	1.6719	.75630	.5916
#1	1.4620	.73238	5.9796	2.4693	.32469	.41610	.6588
#2	1.4617	.73382	5.9616	2.4845	.31710	.42058	.6644

Elem	Sr4215	Si2881
Avge	8.055	1.549
SDev	.019	.009
%RSD	.2338	.6005
#1	8.042	1.543
#2	8.069	1.556

IntStd de	1 Counts	2 NOTUSED	3 NOTUSED	4 NOTUSED	5 NOTUSED	6 NOTUSED	7 NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	5706	--	--	--	--	--	--
SDev	5.967940	--	--	--	--	--	--
%RSD	.1045924	--	--	--	--	--	--
#1	5710	--	--	--	--	--	--
#2	5702	--	--	--	--	--	--

IntStd	1	2	3	4	5	6	7
de	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	5706	--	--	--	--	--	--
SDev	5.967940	--	--	--	--	--	--
%RSD	.1045924	--	--	--	--	--	--
#1	5710	--	--	--	--	--	--
#2	5702	--	--	--	--	--	--

Method: QTESTNAK Sample Name: ICVHP Operator: KT
Run Time: 10/10/00 18:17:39
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97892	.98080	.99384	9.8922	.98773	1.0143	1.0246
SDev	.00396	.00831	.00195	.0056	.00450	.0001	.0024
%RSD	.40493	.84728	.19615	.05684	.45561	.00803	.23587
#1	.98172	.98667	.99522	9.8961	.99091	1.0142	1.0263
#2	.97611	.97492	.99246	9.8882	.98454	1.0143	1.0229
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	11.000	1.1000	1.1000	1.1000
Low	.90000	.90000	.90000	9.0000	.90000	.90000	.90000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.99968	40.474	1.0236	1.0042	.97736	10.240	39.676
SDev	.00054	.076	.0019	.0019	.00018	.032	.001
%RSD	.05399	.18728	.18687	.18664	.01808	.31113	.00215
#1	1.0001	40.528	1.0249	1.0055	.97723	10.263	39.675
#2	.99930	40.421	1.0222	1.0028	.97748	10.218	39.676
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	44.000	1.1000	1.1000	1.1000	11.000	44.000
Low	.90000	36.000	.90000	.90000	.90000	9.0000	36.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0374	.99090	1.0244	.38898	38.324	5.0135	1.0337
SDev	.0005	.00001	.0008	.00021	.082	.0140	.0011
%RSD	.04891	.00098	.08054	.05447	.21378	.27895	.10988
#1	1.0378	.99089	1.0239	.38913	38.382	5.0234	1.0345
#2	1.0371	.99090	1.0250	.38883	38.266	5.0036	1.0329
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	.44000		5.5000	1.1000
Low	.90000	.90000	.90000	.36000		4.5000	.90000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	1.0198	1.0187	.96313	.99746	.98658	.97137	.98270
SDev	.0019	.0003	.00177	.00201	.00183	.00486	.00352
%RSD	.18668	.03015	.18407	.20148	.18538	.50044	.35778
#1	1.0212	1.0190	.96438	.99889	.98787	.97481	.98518
#2	1.0185	1.0185	.96187	.99604	.98528	.96794	.98021
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	1.1000	1.1000	1.1000				
Low	.90000	.90000	.90000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.97612	.98314	.9711	1.025	L.8398
SDev	.00749	.00872	.0011	.000	.0019
%RSD	.76754	.88681	.1112	.0452	.2225
#1	.98141	.98930	.9703	1.025	L.8411
#2	.97082	.97697	.9719	1.025	L.8384
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	LC Low
High			1.100		1.100
Low			.9000		.9000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	5915	--	--	--	--	--	--
SDev	11.03093	--	--	--	--	--	--
%RSD	.1865060	--	--	--	--	--	--
#1	5907	--	--	--	--	--	--
#2	5922	--	--	--	--	--	--

Method: QTESTNAK Sample Name: ICB Operator: KT
Run Time: 10/10/00 18:25:44
mment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00039	-.00062	-.00008	-.02519	.00366	.00017	.00009
SDev	.00265	.00208	.00221	.00010	.00163	.00000	.00000
%RSD	673.56	332.56	2926.7	.39871	44.426	.57599	.67741
#1	-.00226	.00084	.00149	-.02526	.00481	.00017	.00009
#2	.00148	-.00209	-.00164	-.02512	.00251	.00016	.00008
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.00500	.06000	.20000	.01000	.02000	.00500
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00034	-.00234	.00040	.00051	.00001	-.02203	-.01402
SDev	.00019	.00045	.00069	.00000	.00060	.00310	.00006
%RSD	56.334	19.211	173.93	.00362	4531.0	14.075	.43755
#1	.00020	-.00202	-.00009	.00051	.00044	-.01984	-.01397
#2	.00047	-.00266	.00088	.00051	-.00041	-.02423	-.01406
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00032	.00125	.00143	-.00015	.25233	-.00840	.00002
SDev	.00000	.00183	.00000	.00036	.12188	.00405	.00000
%RSD	.56853	146.53	.18506	235.08	48.302	48.220	18.631
#1	.00032	.00254	.00143	-.00041	.33851	-.00554	.00002
#2	.00032	-.00005	.00142	.00010	.16615	L-.01127	.00003
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01500	.04000	.04000	.01000	5.0000	.01000	.05000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	-.00067	.00052	-.00929	-.00311	.00601	.00406	-.00261
SDev	.00000	.00001	.00437	.00172	.00318	.00233	.00281
%RSD	.40817	1.2222	47.037	55.394	52.950	57.366	107.35
#1	-.00067	.00053	-.00620	-.00189	.00826	.00241	-.00460
#2	-.00067	.00052	-.01238	-.00433	.00376	.00570	-.00063
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.10000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
rge	-.00042	-.00073	.0010	.0001	<.0000
sDev	.00501	.00562	.0014	.0000	.0011
%RSD	1186.0	773.39	141.4	.5613	190.5
#1	-.00396	.00324	.0020	.0001	.0002
#2	.00312	-.00470	.0000	.0001	<.0000
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			.2000	.0500	.5000
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6068	--	--	--	--	--	--
SDev	16.99888	--	--	--	--	--	--
%RSD	.2801240	--	--	--	--	--	--
#1	6056	--	--	--	--	--	--
#2	6080	--	--	--	--	--	--

Method: QTESTNAK Sample Name: ICSA Operator: KT
Run Time: 10/10/00 18:31:41
mment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00247	.00159	.00560	504.77	.00675	.00059	.00001
SDev	.00190	.00219	.00513	10.53	.00124	.00002	.00014
%RSD	76.874	137.74	91.582	2.0858	18.420	4.0664	1273.2
#1	-.00113	.00004	.00922	497.32	.00763	.00058	-.00009
#2	-.00381	.00315	.00197	512.21	.00587	.00061	.00011
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.01000	.06000	600.00	.02000	.02000	.01000
Low	-.01000	-.01000	-.06000	400.00	-.02000	-.02000	-.01000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00275	487.70	-.00281	.00044	-.00065	197.05	498.41
SDev	.00022	1.32	.00015	.00076	.00016	.23	6.73
%RSD	8.1596	.27143	5.2105	173.24	25.350	.11691	1.3507
#1	.00259	488.64	-.00292	.00097	-.00076	196.88	493.65
#2	.00291	486.77	-.00271	-.00010	-.00053	197.21	503.17
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	600.00	.02000	.05000	.02500	240.00	600.00
Low	-.01000	400.00	-.02000	-.05000	-.02500	160.00	400.00

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00329	-.00010	.00046	-.00062	-.01872	.00862	-.00050
SDev	.00009	.00052	.00150	.00022	.09792	.01433	.00050
%RSD	2.8237	509.19	326.65	35.701	522.96	166.11	100.49
#1	-.00323	.00027	.00152	-.00078	.05051	.01876	-.00014
#2	-.00336	-.00047	-.00060	-.00047	-.08796	-.00151	-.00085
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01500	.04000	.04000	.02000	5.0000	.02000	.05000
Low	-.01500	-.04000	-.04000	-.02000	-5.0000	-.02000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	-.00039	.00002	-.00336	.00838	.00002	.00549	-.00644
SDev	.00190	.00024	.01472	.01201	.00866	.01470	.01018
%RSD	493.06	1165.4	437.88	143.23	54203.	267.66	158.12
#1	.00096	-.00015	-.01377	.01687	-.00611	-.00490	.00076
#2	-.00173	.00019	.00705	-.00011	.00614	.01589	-.01364
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.10000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
rge	.00231	.00124	.0078	.0153	.0102
sDev	.01692	.00516	.0013	.0003	.0033
%RSD	732.85	416.96	17.12	2.307	32.34
#1	-.00966	.00488	.0088	.0151	.0079
#2	.01427	-.00241	.0069	.0156	.0125
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			.2000	.0500	.5000
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	5380	--	--	--	--	--	--
SDev	168.9702	--	--	--	--	--	--
%RSD	3.140967	--	--	--	--	--	--
#1	5499	--	--	--	--	--	--
#2	5260	--	--	--	--	--	--

Method: QTESTNAK Sample Name: ICSAB4.0 Operator: KT
Run Time: 10/10/00 18:39:46
ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04674	.04917	.64257	515.39	.10734	.53535	.52948
SDev	.00148	.00126	.00203	.48	.00335	.00052	.00010
%RSD	3.1670	2.5554	.31576	.09341	3.1186	.09687	.01967
#1	.04779	.04828	.64113	515.73	.10971	.53498	.52955
#2	.04569	.05006	.64400	515.05	.10497	.53571	.52941
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	.06000	.72000	600.00	.12000	.60000	.60000
Low	.04000	.04000	.48000	400.00	.08000	.40000	.40000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0051	501.67	.50772	.51567	.57265	202.34	510.06
SDev	.0031	.31	.00080	.00051	.00011	.03	.89
%RSD	.30713	.06186	.15761	.09847	.01844	.01667	.17407
#1	1.0029	501.89	.50716	.51603	.57258	202.36	509.43
#2	1.0073	501.45	.50829	.51531	.57273	202.32	510.69
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	600.00	.60000	.60000	.60000	240.00	600.00
Low	.80000	400.00	.40000	.40000	.40000	160.00	400.00

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51950	1.0413	1.0185	.22001	H13.467	.10627	-.00087
SDev	.00023	.0014	.0018	.00032	.113	.00356	.00001
%RSD	.04527	.13930	.17915	.14385	.83579	3.3499	.67892
#1	.51934	1.0402	1.0197	.22023	H13.547	.10879	-.00087
#2	.51967	1.0423	1.0172	.21978	H13.387	.10375	-.00087
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	.60000	1.2000	1.2000	.24000	12.000	.12000	.10000
Low	.40000	.80000	.80000	.16000	8.0000	.08000	-.10000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.50602	1.0835	-.01077	.64121	.64528	.06856	.03585
SDev	.00026	.0024	.01471	.00367	.00127	.00061	.00253
%RSD	.05153	.22114	136.62	.57297	.19618	.89752	7.0478
#1	.50584	1.0818	-.00037	.63861	.64618	.06812	.03763
#2	.50621	1.0852	-.02117	.64381	.64439	.06899	.03406
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.60000	1.2000	.20000				
Low	.40000	.80000	-.20000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.06117	.04318	.0111	.0156	.0009
SDev	.00626	.00501	.0000	.0001	.0004
%RSD	10.227	11.596	.2519	.5686	44.11
#1	.06559	.03964	.0111	.0156	.0012
#2	.05674	.04672	.0110	.0157	.0006
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			.4000	.1000	1.000
Low			-.4000	-.1000	-1.000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	5469	--	--	--	--	--	--
SDev	13.77443	--	--	--	--	--	--
%RSD	.2518646	--	--	--	--	--	--
#1	5459	--	--	--	--	--	--
#2	5479	--	--	--	--	--	--

Method: QTESTNAK Sample Name: TEST-CRI Operator: KT
Run Time: 10/10/00 18:49:55
(ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00704	.01245	.02135	.37744	.01796	.02006	.00978
SDev	.00022	.00453	.00356	.00464	.00475	.00028	.00002
%RSD	3.0981	36.350	16.668	1.2301	26.435	1.3887	.18252
#1	.00720	H.01565	.02386	.38072	.02132	.02026	.00979
#2	.00689	.00925	.01883	.37415	L.01460	.01986	.00977
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00750	.01250	.02500	.50000	.02500	.02500	.01250
Low	.00450	.00750	.01500	.30000	.01500	.01500	.00750

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00406	9.9643	.00987	.09717	.04764	.17834	9.5123
SDev	.00029	.0353	.00018	.00090	.00040	.00279	.0316
%RSD	7.1008	.35419	1.7950	.92410	.83113	1.5640	.33170
#1	.00426	9.9892	.00974	.09780	.04792	.17637	9.5346
#2	.00386	9.9393	.00999	.09653	.04736	.18031	9.4900
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	12.500	.01250	.12500	.06250	.25000	12.500
Low	.00300	7.5000	.00750	.07500	.03750	.15000	7.5000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03117	.07835	.08154	.00954	9.4421	L.01162	.00002
SDev	.00006	.00167	.00015	.00005	.0405	.00019	.00000
%RSD	.19035	2.1248	.18721	.56300	.42894	1.6341	14.187
#1	.03121	.07718	.08165	.00950	9.4135	L.01149	.00002
#2	.03113	.07953	.08144	.00957	9.4707	L.01175	.00002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Low	NOCHECK
High	.03750	.10000	.10000	.01250		.02500	
Low	.02250	.06000	.06000	.00750		.01500	

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.09686	.04111	L.00636	.02031	.02341	.01064	.00525
SDev	.00112	.00008	.00885	.00626	.00186	.00069	.00067
%RSD	1.1518	.20269	139.04	30.818	7.9244	6.4666	12.774
#1	.09765	.04117	L.01262	.02474	.02210	.01015	.00572
#2	.09607	.04105	L.00011	.01589	.02472	.01112	.00477
Errors	LC Pass	LC Pass	LC Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.12500	.05000	.25000				
Low	.07500	.03000	.15000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
·ge	.01239	.01248	L.0000	L.0002	L.0052
sDev	.00345	.00507	.0000	.0000	.0003
%RSD	27.835	40.570	.0000	.2513	6.045
#1	.01483	.01607	L.0000	L.0002	L.0054
#2	.00995	.00890	L.0000	L.0002	L.0050
Errors	NOCHECK	NOCHECK	LC Low	LC Low	LC Low
High			.5000	.1250	1.250
Low			.3000	.0750	.7500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6067	--	--	--	--	--	--
SDev	11.42696	--	--	--	--	--	--
%RSD	.1883349	--	--	--	--	--	--
#1	6059	--	--	--	--	--	--
#2	6075	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLQFGB-0281129 Operator: KT
Run Time: 10/10/00 18:58:00
(ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00070	.00320	-.00262	-.01392	-.00318	-.00017	-.00009
SDev	.00080	.00101	.00096	.00081	.00098	.00000	.00000
%RSD	114.50	31.531	36.846	5.8542	30.943	.00000	.36544
#1	-.00127	.00392	-.00193	-.01334	-.00249	-.00017	-.00009
#2	-.00013	.00249	-.00330	-.01449	-.00388	-.00017	-.00009
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.00500	.06000	.20000	.01000	.02000	.00500
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00005	-.00206	-.00009	.00000	-.00016	-.02641	-.01541
SDev	.00008	.00108	.00001	.00071	.00037	.00939	.00188
%RSD	153.80	52.428	13.331	39298.	223.45	35.557	12.200
#1	.00000	-.00130	-.00008	.00051	.00010	-.03306	-.01674
#2	-.00011	-.00283	-.00010	-.00050	-.00042	-.01977	-.01408
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00000	-.00004	.00095	.00000	.07974	-.00456	.00029
SDev	.00000	.00002	.00066	.00014	.03620	.00157	.00038
%RSD	52.390	45.821	69.649	28251.	45.395	34.424	127.61
#1	-.00000	-.00002	.00048	.00010	.05414	-.00345	.00056
#2	-.00001	-.00005	.00142	-.00010	.10534	-.00567	.00003
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01500	.04000	.04000	.01000	5.0000	.01000	.05000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	-.00034	.00275	-.00310	-.00559	.00333	.00339	-.00274
SDev	.00047	.00004	.01342	.00111	.00066	.00317	.00038
%RSD	140.68	1.4840	432.77	19.953	19.852	93.731	13.946
#1	-.00000	.00278	-.01259	-.00480	.00380	.00114	-.00247
#2	-.00067	.00272	.00639	-.00638	.00287	.00563	-.00301
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.10000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
ge	.00943	.00009	.0000	.0001	.0028
sDev	.00050	.00126	.0000	.0000	.0011
%RSD	5.3418	1364.2	.0000	1.346	39.41
#1	.00979	.00099	.0000	.0001	.0036
#2	.00908	-.00080	.0000	.0001	.0020
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			.2000	.0500	.5000
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6058	--	--	--	--	--	--
SDev	40.75773	--	--	--	--	--	--
%RSD	.6727941	--	--	--	--	--	--
#1	6029	--	--	--	--	--	--
#2	6087	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLPAQ 3X Operator: KT
Run Time: 10/10/00 19:03:57
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00706	-.00286	.00014	.16958	.01455	.53834	.00012
SDev	.00121	.00310	.00035	.00108	.00327	.00011	.00000
%RSD	17.080	108.22	240.28	.63868	22.493	.02097	.24062
#1	.00792	-.00067	-.00010	.16881	.01224	.53826	.00012
#2	.00621	L-.00505	.00039	.17034	.01687	.53842	.00011
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00001	527.61	.00416	.00106	.02851	3.2717	36.762
SDev	.00056	1.12	.00022	.00084	.00072	.0138	.057
%RSD	4065.0	.21174	5.4105	79.488	2.5131	.42026	.15550
#1	.00041	526.82	.00400	.00165	.02902	3.2620	36.722
#2	-.00038	528.40	.00432	.00046	.02801	3.2814	36.802
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.23592	.00676	.01430	-.00026	1591.4	.00050	.00484
SDev	.00077	.00001	.00076	.00034	.3	.00566	.00000
%RSD	.32500	.16138	5.3340	127.53	.01787	1140.9	.09063
#1	.23537	.00677	.01376	-.00003	1591.2	-.00351	.00485
#2	.23646	.00676	.01484	-.00050	1591.6	.00450	.00484
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00012	.16737	.00153	-.00260	.00564	.01039	.00540
SDev	.00000	.00068	.00518	.00021	.00147	.00058	.00210
%RSD	2.0591	.40619	339.53	8.1415	26.010	5.6179	38.876
#1	.00012	.16689	.00519	-.00245	.00460	.00998	.00689
#2	.00012	.16785	-.00214	-.00275	.00667	.01080	.00392
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.01135	-.00996	.0421	2.744	5.217
SDev	.00407	.00262	.0001	.003	.012
%RSD	35.814	26.255	.1361	.1186	.2255
#1	.01423	-.00811	.0421	2.742	5.209
#2	.00848	-.01181	.0420	2.746	5.226
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	5174	--	--	--	--	--	--
SDev	7.042756	--	--	--	--	--	--
%RSD	.1361124	--	--	--	--	--	--
#1	5169	--	--	--	--	--	--
#2	5179	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLPAR 3X Operator: KT
Run Time: 10/10/00 19:12:02
ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00750	-.00067	-.00513	.19322	.01923	.56917	.00032
SDev	.00027	.00051	.00572	.01507	.00438	.00159	.00029
%RSD	3.6013	76.207	111.62	7.8002	22.800	.27883	90.766
#1	.00731	-.00103	-.00917	.20388	.02232	.56805	.00053
#2	.00769	-.00031	-.00108	.18257	.01613	.57029	.00012
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00081	544.63	.00621	.00226	.02890	3.4674	37.379
SDev	.00115	.27	.00309	.00255	.00218	.0039	.125
%RSD	141.97	.04920	49.739	112.61	7.5285	.11114	.33324
#1	.00163	544.82	.00840	.00407	.03044	3.4647	37.291
#2	-.00000	544.44	.00403	.00046	.02736	3.4701	37.467
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24000	.00839	.01610	.00154	1613.7	-.00092	.00487
SDev	.00119	.00219	.00007	.00255	.9	.00093	.00001
%RSD	.49370	26.155	.40821	165.83	.05457	101.23	.26410
#1	.23916	.00994	.01614	.00334	1614.3	-.00026	.00488
#2	.24083	.00684	.01605	-.00027	1613.0	-.00158	.00486
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00091	.18461	.01623	-.01146	.00756	.02621	-.00184
SDev	.00001	.00014	.00523	.01213	.00712	.01692	.00885
%RSD	1.2201	.07485	32.198	105.88	94.170	64.562	481.74
#1	.00092	.18451	.01254	-.02004	.01259	.03818	-.00810
#2	.00090	.18471	.01993	-.00288	.00252	.01425	.00442
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
ge	.02226	-.01211	.0401	2.853	5.437
SDev	.01815	.00982	.0002	.007	.008
%RSD	81.510	81.073	.4209	.2343	.1389
#1	.03510	-.01906	.0402	2.849	5.431
#2	.00943	-.00517	.0400	2.858	5.442
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	5128	--	--	--	--	--	--
SDev	21.58091	--	--	--	--	--	--
%RSD	.4208660	--	--	--	--	--	--
#1	5112	--	--	--	--	--	--
#2	5143	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLPAV 3X Operator: KT
Run Time: 10/10/00 19:20:06
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01862	-.00325	.00121	1.2692	.03422	.63076	.00033
SDev	.00084	.00219	.00107	.0061	.00418	.00196	.00000
%RSD	4.5038	67.329	89.034	.48104	12.225	.31063	.59710
#1	.01803	-.00170	.00197	1.2735	.03718	.63214	.00033
#2	.01922	-.00480	.00045	1.2649	.03127	.62937	.00033
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00132	532.73	.01875	.00213	.25264	14.446	37.431
SDev	.00002	.40	.00056	.00086	.00175	.028	.099
%RSD	1.2115	.07541	3.0012	40.301	.69230	.19663	.26466
#1	.00133	533.02	.01915	.00152	.25388	14.466	37.501
#2	.00131	532.45	.01835	.00273	.25140	14.426	37.361
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.35342	.00971	.07733	-.00016	1694.2	-.00465	.02793
SDev	.00114	.00215	.00050	.00035	1.8	.00051	.00011
%RSD	.32369	22.120	.64092	215.26	.10716	10.874	.37838
#1	.35422	.00819	.07698	.00008	1695.5	-.00501	.02801
#2	.35261	.01123	.07768	-.00040	1692.9	-.00429	.02786
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00659	.61769	.00091	-.00059	.00481	.02347	.01621
SDev	.00053	.00251	.01601	.00010	.00343	.00254	.00252
%RSD	8.0593	.40572	1762.4	16.804	71.188	10.808	15.573
#1	.00621	.61946	.01223	-.00066	.00723	.02526	.01442
#2	.00696	.61592	-.01041	-.00052	.00239	.02167	.01799
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
ge	.00934	-.00954	.0445	2.855	9.117
sDev	.00918	.00130	.0019	.009	.035
%RSD	98.264	13.656	4.224	.3169	.3849
#1	.01584	-.01046	.0459	2.861	9.142
#2	.00285	-.00862	.0432	2.848	9.092
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	5023	--	--	--	--	--	--
SDev	20.22332	--	--	--	--	--	--
%RSD	.4026161	--	--	--	--	--	--
#1	5009	--	--	--	--	--	--
#2	5037	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLPAW 3X Operator: KT
Run Time: 10/10/00 19:28:11
ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00469	-.00064	-.00313	.16947	.01444	.57577	.00012
SDev	.00293	.00154	.00205	.00232	.00014	.00181	.00000
%RSD	62.389	241.06	65.757	1.3679	.93811	.31406	.64143
#1	.00676	-.00172	-.00167	.17111	.01454	.57705	.00012
#2	.00262	.00045	-.00458	.16784	.01435	.57449	.00012
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00015	558.05	.00428	.00046	.02480	3.3953	37.870
SDev	.00005	.57	.00010	.00000	.00047	.0022	.104
%RSD	31.733	.10254	2.2163	.26654	1.8897	.06511	.27557
#1	.00012	558.45	.00421	.00046	.02513	3.3937	37.944
#2	.00019	557.64	.00435	.00046	.02447	3.3969	37.796
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24064	.00380	.01551	-.00003	1661.3	-.00749	.00455
SDev	.00088	.00002	.00084	.00000	2.9	.00151	.00047
%RSD	.36377	.57358	5.4257	.34714	.17402	20.175	10.222
#1	.24126	.00382	.01610	-.00003	1663.4	-.00856	.00487
#2	.24002	.00379	.01491	-.00003	1659.3	-.00642	.00422
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.00091	.19338	.00514	-.00594	.00251	.00989	.00209
SDev	.00001	.00021	.00003	.00307	.00001	.00254	.00312
%RSD	.90338	.10993	.52501	51.771	.54919	25.662	149.05
#1	.00091	.19323	.00512	-.00376	.00252	.01168	.00430
#2	.00090	.19353	.00516	-.00811	.00250	.00809	-.00011
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
·ge	.00940	-.00565	.0423	2.898	5.437
SDev	.00341	.00060	.0032	.012	.024
%RSD	36.280	10.625	7.495	.4151	.4421
#1	.00699	-.00607	.0401	2.907	5.454
#2	.01182	-.00523	.0446	2.890	5.420
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	5139	--	--	--	--	--	--
SDev	18.66789	--	--	--	--	--	--
%RSD	.3632649	--	--	--	--	--	--
#1	5126	--	--	--	--	--	--
#2	5152	--	--	--	--	--	--

Method: QTESTNAK Sample Name: CCVT Operator: KT
Run Time: 10/10/00 19:38:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49484	.49305	.49257	24.148	.49076	1.9895	2.0453
SDev	.00059	.00027	.00258	.013	.00239	.0035	.0016
%RSD	.11928	.05452	.52370	.05567	.48630	.17775	.07943
#1	.49442	.49286	.49075	24.138	.49245	1.9920	2.0464
#2	.49525	.49324	.49439	24.157	.48907	1.9870	2.0441
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	.55000	.55000	27.500	.55000	2.2000	2.2000
Low	.45000	.45000	.45000	22.500	.45000	1.8000	1.8000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50862	101.71	2.0378	2.0213	1.9422	25.545	99.170
SDev	.00032	.08	.0041	.0068	.0007	.024	.191
%RSD	.06379	.08087	.19971	.33626	.03802	.09513	.19261
#1	.50840	101.77	2.0407	2.0261	1.9417	25.528	99.305
#2	.50885	101.65	2.0350	2.0164	1.9427	25.563	99.035
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	110.00	2.2000	2.2000	2.2000	27.500	110.00
Low	.45000	90.000	1.8000	1.8000	1.8000	22.500	90.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0382	1.9932	2.0297	.98441	48.689	.96094	2.0074
SDev	.0037	.0233	.0060	.00143	.008	.00244	.0013
%RSD	.18063	1.1696	.29412	.14552	.01644	.25386	.06659
#1	2.0408	1.9767	2.0339	.98542	48.683	.96266	2.0065
#2	2.0356	2.0097	2.0255	.98339	48.694	.95921	2.0084
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000		1.1000	2.2000
Low	1.8000	1.8000	1.8000	.90000		.90000	1.8000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	2.0157	2.0322	1.9562	.49338	.49095	.49464	.49493
SDev	.0027	.0014	.0046	.00641	.00510	.00062	.00120
%RSD	.13247	.07076	.23670	1.3002	1.0393	.12595	.24163
#1	2.0176	2.0332	1.9529	.48884	.49456	.49508	.49409
#2	2.0138	2.0312	1.9595	.49792	.48734	.49420	.49578
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	2.2000	2.2000	2.2000				
Low	1.8000	1.8000	1.8000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
ge	.48991	.49463	1.951	2.009	1.968
sDev	.00031	.00056	.000	.004	.000
%RSD	.06371	.11299	.0058	.2242	.0184
#1	.49013	.49423	1.951	2.012	1.968
#2	.48969	.49502	1.951	2.006	1.968
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			2.200	2.200	2.200
Low			1.800	1.800	1.800

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	5941	--	--	--	--	--	--
SDev	13.49165	--	--	--	--	--	--
%RSD	.2271024	--	--	--	--	--	--
#1	5931	--	--	--	--	--	--
#2	5950	--	--	--	--	--	--

Analysis Report QC Standard 10/10/00 07:54:25 PM page 1

Method: QTESTNAK Sample Name: CCBT Operator: KT
Run Time: 10/10/00 19:48:31
nment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00003	.00205	-.00180	-.02416	-.00016	.00016	-.00009
SDev	.00030	.00110	.00029	.00328	.00211	.00000	.00000
%RSD	893.08	53.890	15.851	13.594	1343.0	.17549	.00028
#1	-.00018	.00283	-.00160	-.02649	-.00165	.00016	-.00009
#2	.00024	.00127	-.00200	-.02184	.00134	.00016	-.00009
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	.00500	.06000	.20000	.01000	.02000	.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00005	-.00376	-.00018	.00051	-.00050	-.02640	-.01273
SDev	.00012	.00013	.00049	.00000	.00001	.00307	.00192
%RSD	236.91	3.5828	272.35	.00608	2.0571	11.634	15.059
#1	.00014	-.00367	-.00053	.00051	-.00049	-.02857	-.01409
#2	-.00003	-.00386	.00017	.00051	-.00050	-.02423	-.01138
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00001	.00248	.00048	-.00030	.21093	.00108	.00004
SDev	.00000	.00000	.00000	.00000	.06143	.00152	.00000
%RSD	3.5752	.16086	.00000	.08457	29.125	140.12	3.2908
#1	-.00001	.00249	.00048	-.00030	.25437	.00216	.00004
#2	-.00001	.00248	.00048	-.00030	.16749	.00001	.00004
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01500	.04000	.04000	.01000	5.0000	.01000	.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	-.00067	-.00006	.00021	-.00270	-.00001	.00324	-.00157
SDev	.00000	.00077	.00001	.00214	.00343	.00171	.00130
%RSD	.09567	1391.7	4.8282	79.283	59499.	52.883	82.851
#1	-.00067	-.00060	.00021	-.00119	-.00243	.00445	-.00248
#2	-.00067	.00049	.00022	-.00421	.00242	.00203	-.00065
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.00000	.00000	.00000				
Range	.05000	.02000	.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00056	.00335	.0000	.0001	<.0000
SDev	.00003	.00167	.0000	.0000	.0017
%RSD	5.9335	49.888	.0000	.1709	31.40
#1	-.00058	.00453	.0000	.0001	<.0000
#2	-.00054	.00217	.0000	.0001	<.0000
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value			.0000	.0000	.0000
Range			.2000	.0500	.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6122	--	--	--	--	--	--
SDev	5.175897	--	--	--	--	--	--
%RSD	.0845395	--	--	--	--	--	--
#1	6119	--	--	--	--	--	--
#2	6126	--	--	--	--	--	--

Method: QTESTNAK Sample Name: CCVT Operator: KT
Run Time: 10/11/00 02:55:53
C ment:
M e: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49844	.49644	.49652	24.734	.50449	1.9679	2.0279
SDev	.00319	.00440	.00347	.043	.00407	.0017	.0010
%RSD	.63933	.88643	.69804	.17496	.80730	.08668	.04895
#1	.49619	.49333	.49407	24.765	.50161	1.9691	2.0286
#2	.50070	.49955	.49897	24.704	.50737	1.9667	2.0272
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	.55000	.55000	27.500	.55000	2.2000	2.2000
Low	.45000	.45000	.45000	22.500	.45000	1.8000	1.8000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50533	101.85	2.0171	2.0248	1.9813	25.512	99.410
SDev	.00140	.06	.0019	.0002	.0028	.041	.177
%RSD	.27649	.06063	.09208	.01148	.14273	.16164	.17839
#1	.50435	101.90	2.0184	2.0250	1.9833	25.483	99.535
#2	.50632	101.81	2.0157	2.0246	1.9793	25.542	99.284
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
igh	.55000	110.00	2.2000	2.2000	2.2000	27.500	110.00
Low	.45000	90.000	1.8000	1.8000	1.8000	22.500	90.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0167	2.0133	2.0376	.99420	51.000	.95244	1.9470
SDev	.0014	.0146	.0023	.00143	.157	.00796	.0038
%RSD	.07058	.72490	.11199	.14406	.30833	.83552	.19323
#1	2.0177	2.0029	2.0392	.99522	51.111	.95807	1.9496
#2	2.0157	2.0236	2.0359	.99319	50.889	.94681	1.9443
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000		1.1000	2.2000
Low	1.8000	1.8000	1.8000	.90000		.90000	1.8000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	1.9866	2.0304	1.9764	.49832	.49290	.49525	.50004
SDev	.0031	.0006	.0048	.00373	.00294	.00605	.00176
%RSD	.15494	.02755	.24046	.74781	.59725	1.2211	.35168
#1	1.9888	2.0300	1.9798	.49569	.49082	.49097	.49880
#2	1.9845	2.0308	1.9731	.50096	.49498	.49952	.50128
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	2.2000	2.2000	2.2000				
Low	1.8000	1.8000	1.8000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.49396	.49768	1.891	1.982	1.956
SDev	.00423	.00449	.006	.003	.002
%RSD	.85582	.90161	.3160	.1310	.1109
#1	.49097	.49450	1.895	1.984	1.957
#2	.49695	.50085	1.887	1.981	1.954
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			2.200	2.200	2.200
Low			1.800	1.800	1.800

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	5947	--	--	--	--	--	--
SDev	.7071068	--	--	--	--	--	--
%RSD	.0118894	--	--	--	--	--	--
#1	5947	--	--	--	--	--	--
#2	5948	--	--	--	--	--	--

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Method: QTESTNAK Sample Name: CCBT' Operator: KT
Run Time: 10/11/00 03:03:58
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00044	.00123	.00026	.06659	-.00013	.00016	-.00009
SDev	.00073	.00157	.00042	.00129	.00219	.00000	.00000
%RSD	165.89	127.80	157.26	1.9413	1751.5	.39496	.10144
#1	.00008	.00012	-.00003	.06750	.00143	.00016	-.00009
#2	-.00096	.00234	.00056	.06567	-.00168	.00016	-.00009
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	.00500	.06000	.20000	.01000	.02000	.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00019	-.03728	-.00010	.00051	-.00282	-.01549	-.01548
SDev	.00045	.01591	.00000	.00000	.00002	.00619	.00192
%RSD	233.21	42.683	2.8669	.01993	.69844	39.953	12.427
#1	.00012	-.04853	-.00010	.00051	-.00280	-.01112	-.01412
#2	-.00051	-.02603	-.00011	.00051	-.00283	-.01987	-.01684
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00001	-.00133	.00001	-.00025	.12667	-.00504	.00003
SDev	.00000	.00181	.00067	.00007	.09846	.00158	.00000
%RSD	10.191	135.74	4685.6	28.448	77.730	31.385	10.186
#1	-.00001	-.00261	-.00046	-.00030	.05705	-.00616	.00003
#2	-.00001	-.00005	.00048	-.00020	.19630	-.00392	.00003
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01500	.04000	.04000	.01000	5.0000	.01000	.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	-.00067	.00052	-.00609	-.00103	.00285	.00455	-.00293
SDev	.00000	.00001	.00004	.00062	.00001	.00014	.00102
%RSD	.01787	1.6573	.59117	60.529	.18712	3.0752	34.932
#1	-.00067	.00052	-.00611	-.00147	.00285	.00465	-.00221
#2	-.00067	.00051	-.00606	-.00059	.00286	.00446	-.00366
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.00000	.00000	.00000				
Range	.05000	.02000	.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00220	.00075	.0000	<.0000	<.0000
SDev	.00704	.00115	.0000	.0000	.0015
%RSD	319.36	154.66	.0000	.0000	12.52
#1	-.00277	.00156	.0000	<.0000	<.0000
#2	.00718	-.00007	.0000	<.0000	<.0000
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value			.0000	.0000	.0000
Range			.2000	.0500	.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6093	--	--	--	--	--	--
SDev	11.65311	--	--	--	--	--	--
%RSD	.1912452	--	--	--	--	--	--
#1	6085	--	--	--	--	--	--
#2	6102	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLRXHB-0283485 Operator: KT
Run Time: 10/11/00 03:09:56
C ment:
M e: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00080	.00238	-.00050	.10063	.00194	.00084	-.00000
SDev	.00098	.00237	.00217	.00570	.00261	.00001	.00012
%RSD	122.66	99.578	431.71	5.6617	134.46	.54412	5183.9
#1	.00011	.00070	.00103	.10466	.00010	.00084	.00008
#2	.00149	.00406	-.00204	.09660	.00379	.00083	-.00009
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.00500	.06000	.20000	.01000	.02000	.00500
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00062	.17782	.00044	.00001	-.00149	-.01335	.01178
SDev	.00008	.00153	.00021	.00071	.00033	.00308	.00176
%RSD	12.855	.86236	46.840	9762.8	22.094	23.058	14.925
#1	-.00068	.17890	.00059	.00051	-.00126	-.01553	.01054
#2	-.00056	.17673	.00030	-.00049	-.00173	-.01118	.01303
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
igh	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00129	.00248	.00095	-.00010	.27557	L-.01008	.00004
SDev	.00001	.00002	.00066	.00014	.03020	.00055	.00001
%RSD	.56602	.91066	69.300	141.07	10.961	5.5044	18.520
#1	.00130	.00250	.00048	-.00000	.25421	-.00968	.00003
#2	.00129	.00246	.00141	-.00020	.29693	L-.01047	.00004
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.01500	.04000	.04000	.01000	5.0000	.01000	.05000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	-.00067	.01037	-.00596	-.00284	.00418	.00684	-.00221
SDev	.00000	.00006	.00869	.00355	.00060	.00113	.00203
%RSD	.45131	.59568	145.78	125.09	14.386	16.510	91.940
#1	-.00067	.01041	.00018	-.00033	.00375	.00763	-.00365
#2	-.00068	.01032	-.01211	-.00535	.00460	.00604	-.00077
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.05000	.02000	.10000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00437	.00139	<.0000	.0005	.0049
SDev	.00293	.00209	.0014	.0001	.0026
%RSD	66.982	150.83	141.4	23.10	53.44
#1	.00230	-.00009	.0000	.0004	.0067
#2	.00644	.00287	<.0000	.0006	.0030
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			.2000	.0500	.5000
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6128	--	--	--	--	--	--
SDev	27.57716	--	--	--	--	--	--
%RSD	.4500411	--	--	--	--	--	--
#1	6108	--	--	--	--	--	--
#2	6147	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLRXHC Operator: KT
Run Time: 10/11/00 03:15:54
C ment:
M e: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.45253	1.7657	.44964	1.8894	1.8315	1.9005	.04734
SDev	.00306	.0039	.00623	.0057	.0021	.0055	.00014
%RSD	.67569	.21841	1.3859	.29981	.11615	.28845	.30226
#1	.45469	1.7684	.44523	1.8934	1.8300	1.9044	.04744
#2	.45037	1.7629	.45405	1.8854	1.8330	1.8967	.04724
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	2.4000	.60000	2.4000	2.4000	2.4000	.06000
Low	.40000	1.4000	.35000	1.6000	1.5000	1.6000	.04000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04950	L.18063	.19844	.49604	.23921	.96375	L.02422
SDev	.00015	.00282	.00075	.00120	.00038	.00090	.00019
%RSD	.30312	1.5589	.37593	.24152	.15751	.09321	.77801
#1	.04939	L.18262	.19896	.49689	.23948	.96312	L.02435
#2	.04960	L.17864	.19791	.49520	.23894	.96439	L.02408
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
igh	.06000	60.000	.24000	.60000	.30000	1.2500	60.000
Low	.04000	40.000	.16000	.40000	.20000	.80000	40.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49818	.93719	.49729	.04744	.40761	1.7207	L.00025
SDev	.00153	.00319	.00474	.00053	.01877	.0013	.00037
%RSD	.30798	.34080	.95244	1.1231	4.6058	.07348	146.45
#1	.49927	.93493	.50064	.04782	.39434	1.7216	L.00052
#2	.49710	.93945	.49394	.04706	.42089	1.7198	L-.00001
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Low
High	.60000	1.2000	.60000	.06000		2.4000	1.2000
Low	.40000	.80000	.40000	.04000		1.6000	.80000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.47437	.49291	-.00939	.44835	.45223	.45254	.45253
SDev	.00203	.00329	.01346	.00661	.00547	.00528	.00195
%RSD	.42793	.66652	143.38	1.4742	1.2107	1.1667	.43056
#1	.47580	.49524	-.01891	.44367	.44836	.45628	.45390
#2	.47293	.49059	.00013	.45302	.45611	.44881	.45115
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.60000	.60000					
Low	.40000	.40000					

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	1.7382	1.7794	L.0189	L.0006	.1418
Dev	.0209	.0047	.0016	.0000	.0019
%RSD	1.2035	.26204	8.260	.9367	1.315
#1	1.7530	1.7761	L.0200	L.0006	.1431
#2	1.7234	1.7827	L.0178	L.0006	.1405
Errors	NOCHECK	NOCHECK	LC Low	LC Low	NOCHECK
High			1.200	1.200	
Low			.8000	.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6072	--	--	--	--	--	--
SDev	49.75228	--	--	--	--	--	--
%RSD	.8193210	--	--	--	--	--	--
#1	6037	--	--	--	--	--	--
#2	6108	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLPWC Operator: KT
Run Time: 10/11/00 03:24:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03527	.00527	-.00235	125.37	.02514	.86402	.00344
SDev	.00060	.00529	.00023	.32	.00011	.00207	.00014
%RSD	1.6982	100.41	9.9308	.25682	.45281	.23964	4.1453
#1	.03484	.00153	-.00219	125.59	.02506	.86548	.00354
#2	.03569	.00901	-.00252	125.14	.02522	.86255	.00334
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00452	33.319	.15152	.04925	.10163	151.13	36.912
SDev	.00051	.005	.00084	.00036	.00088	.22	.073
%RSD	11.259	.01482	.55346	.73647	.86406	.14382	.19835
#1	-.00488	33.322	.15211	.04899	.10226	151.29	36.964
#2	-.00416	33.315	.15093	.04951	.10101	150.98	36.860
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9747	.00375	.09766	-.00142	5.9846	-.00074	6.8192
SDev	.0013	.00178	.00053	.00006	.0170	.00274	.0035
%RSD	.06552	47.370	.54031	4.5032	.28367	371.00	.05084
#1	1.9756	.00500	.09804	-.00138	5.9726	-.00268	6.8217
#2	1.9738	.00249	.09729	-.00147	5.9966	.00120	6.8168
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.26567	.36129	.01087	-.00550	.00394	.04439	.03072
SDev	.00035	.00052	.00002	.00048	.00025	.00158	.00169
%RSD	.13239	.14241	.20373	8.6791	6.4347	3.5598	5.4918
#1	.26542	.36165	.01089	-.00516	.00376	.04551	.02952
#2	.26592	.36093	.01086	-.00583	.00412	.04327	.03191
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

021119

Units			ppm	ppm	ppm
Avge	.01086	.00248	.0365	.3562	.9865
Dev	.00571	.00509	.0012	.0007	.0031
%RSD	52.528	205.10	3.280	.1888	.3177
#1	.00683	-.00112	.0357	.3567	.9887
#2	.01489	.00608	.0374	.3557	.9842
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6120	--	--	--	--	--	--
SDev	33.23402	--	--	--	--	--	--
%RSD	.5430093	--	--	--	--	--	--
#1	6097	--	--	--	--	--	--
#2	6144	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLPWCP Operator: KT
Run Time: 10/11/00 03:32:05
Comment:
Mode: CONC Corr. Factor: 5

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.03390	L.00273	L.00497	121.18	L.02888	.85621	L.00370
SDev	.00310	.00506	.00501	.05	.03309	.00011	.00001
%RSD	9.1511	185.39	100.68	.03745	114.60	.01294	.28356
#1	L.03171	L-.00085	L.00143	121.21	L.00548	.85613	L.00371
#2	L.03610	L.00631	L.00851	121.15	L.05228	.85629	L.00369
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	55.000	11.000	5.5000	550.00	11.000	11.000	5.5000
Low	.07500	.17000	.10000	.63000	.24500	.01000	.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00810	33.416	.15340	.05339	.08835	152.53	36.900
SDev	.00236	.037	.00120	.00350	.00299	.30	.021
%RSD	29.121	.11156	.78129	6.5577	3.3887	.19739	.05614
#1	L-.00977	33.389	.15425	.05092	.09047	152.74	36.885
#2	L-.00643	33.442	.15255	.05587	.08623	152.32	36.914
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
igh	11.000	550.00	55.000	110.00	55.000	1100.0	1100.0
Low	.01500	.38500	.02000	.03500	.04000	.66500	.19000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9930	L.00876	.10306	L-.00118	6.4708	L-.01601	6.8237
SDev	.0002	.00906	.00344	.00000	.2938	.01101	.0124
%RSD	.01087	103.47	3.3350	.04634	4.5405	68.796	.18224
#1	1.9931	L.01517	.10550	L-.00118	6.2630	L-.00822	6.8325
#2	1.9928	L.00235	.10063	L-.00118	6.6785	L-.02380	6.8149
Errors	LC Pass	LC Low	LC Pass	LC Low	NOCHECK	LC Low	LC Pass
High	27.500	27.500	110.00	2.2000		22.000	55.000
Low	.01000	.10500	.05500	.03000		.23500	.01500

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.25987	.37201	L-.02256	-.00773	.03043	.08468	.00855
SDev	.00660	.00344	.02189	.00678	.00146	.00469	.00231
%RSD	2.5415	.92570	97.018	87.632	4.8011	5.5418	26.996
#1	.25520	.36958	L-.00708	-.01253	.02940	.08137	.00692
#2	.26454	.37445	L-.03804	-.00294	.03146	.08800	.01018
Errors	LC Pass	LC Pass	LC Low	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	.02000	.03500	.46000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.03271	-.01224	L.0346	.3544	.9549
SDev	.02106	.00293	.0069	.0001	.0133
%RSD	64.375	23.916	20.08	.0356	1.394
#1	.01782	-.01017	L.0297	.3543	.9455
#2	.04760	-.01431	L.0396	.3545	.9643
Errors	NOCHECK	NOCHECK	LC Low	LC Pass	LC Pass
High			55.00	5.500	55.00
Low			.0550	.0050	.2400

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6108	--	--	--	--	--	--
SDev	7.721551	--	--	--	--	--	--
%RSD	.1264075	--	--	--	--	--	--
#1	6103	--	--	--	--	--	--
#2	6114	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLPWCS Operator: KT
Run Time: 10/11/00 03:38:03
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49666	1.7367	.16239	100.61	1.8363	2.6129	.05113
SDev	.00231	.0007	.00091	.06	.0129	.0128	.00010
%RSD	.46544	.04168	.55983	.06263	.70015	.49041	.18670
#1	.49829	1.7362	.16303	100.56	1.8272	2.6039	.05107
#2	.49502	1.7372	.16175	100.65	1.8454	2.6220	.05120
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04499	22.627	.31909	.53725	.35295	120.92	30.311
SDev	.00040	.047	.00065	.00194	.00036	.24	.089
%RSD	.89374	.20835	.20464	.36038	.10279	.19774	.29372
#1	.04470	22.594	.31863	.53588	.35270	120.75	30.248
#2	.04527	22.661	.31955	.53862	.35321	121.09	30.374
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
igh	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0654	.90988	.57438	.04630	5.2735	1.8203	5.8010
SDev	.0084	.01192	.00366	.00022	.0119	.0202	.0144
%RSD	.40482	1.3100	.63646	.47573	.22625	1.1109	.24909
#1	2.0595	.90145	.57180	.04615	5.2820	1.8060	5.7908
#2	2.0713	.91831	.57697	.04646	5.2651	1.8346	5.8112
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.70504	.76293	.00613	.16047	.16625	.50639	.49180
SDev	.00163	.00235	.00883	.00179	.00085	.00075	.00384
%RSD	.23174	.30763	144.16	1.1136	.51075	.14870	.78114
#1	.70389	.76127	-.00012	.16173	.16565	.50585	.49452
#2	.70620	.76459	.01237	.15920	.16685	.50692	.48909
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	1.7036	1.7532	.0348	.3237	.9899
SDev	.0013	.0018	.0013	.0016	.0027
%RSD	.07879	.10012	3.750	.4947	.2748
#1	1.7046	1.7520	.0339	.3226	.9919
#2	1.7027	1.7545	.0357	.3249	.9880
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6078	--	--	--	--	--	--
SDev	17.64936	--	--	--	--	--	--
%RSD	.2903581	--	--	--	--	--	--
#1	6066	--	--	--	--	--	--
#2	6091	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLPWCD Operator: KT
Run Time: 10/11/00 03:46:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50229	1.7974	.13655	92.742	1.8673	2.5841	.05170
SDev	.00036	.0044	.00261	.065	.0104	.0037	.00001
%RSD	.07128	.24317	1.9086	.07015	.55485	.14440	.02218
#1	.50203	1.8005	.13471	92.788	1.8746	2.5867	.05171
#2	.50254	1.7943	.13839	92.696	1.8600	2.5815	.05169
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04568	43.177	.31929	.53702	.33515	117.34	38.092
SDev	.00019	.002	.00026	.00072	.00088	.14	.045
%RSD	.40907	.00414	.08160	.13501	.26303	.11668	.11819
#1	.04581	43.176	.31910	.53651	.33578	117.44	38.124
#2	.04554	43.179	.31947	.53753	.33453	117.25	38.060
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1100	.90161	.57505	.04562	5.0557	1.8340	5.6429
SDev	.0008	.00310	.00278	.00010	.0106	.0132	.0016
%RSD	.03860	.34371	.48349	.20770	.20935	.71990	.02905
#1	2.1094	.89942	.57702	.04555	5.0632	1.8246	5.6441
#2	2.1105	.90380	.57308	.04568	5.0482	1.8433	5.6418
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.73996	.75050	.00640	.13636	.13692	.50840	.49923
SDev	.00040	.00038	.00001	.00407	.00032	.00085	.00096
%RSD	.05418	.05064	.07898	2.9839	.23633	.16749	.19267
#1	.73967	.75023	.00640	.13348	.13715	.50900	.49855
#2	.74024	.75077	.00640	.13924	.13669	.50780	.49991
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	1.7750	1.8085	.0325	.3389	.8929
SDev	.0127	.0002	.0015	.0004	.0151
%RSD	.71660	.01120	4.540	.1198	1.687
#1	1.7840	1.8087	.0335	.3392	.9036
#2	1.7660	1.8084	.0314	.3386	.8823
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6141	--	--	--	--	--	--
SDev	15.64128	--	--	--	--	--	--
%RSD	.2546951	--	--	--	--	--	--
#1	6130	--	--	--	--	--	--
#2	6152	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLPWK Operator: KT
Run Time: 10/11/00 03:54:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04682	-.00497	-.00128	173.31	.04470	1.3232	.00478
SDev	.00083	.00576	.00512	.55	.00205	.0043	.00014
%RSD	1.7730	116.03	400.94	.31821	4.5899	.32505	2.9238
#1	.04624	-.00089	.00234	173.70	.04615	1.3263	.00488
#2	.04741	L-.00904	-.00489	172.92	.04325	1.3202	.00469
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00513	123.18	.21462	.08263	.17971	206.11	79.414
SDev	.00066	.31	.00114	.00028	.00094	.66	.260
%RSD	12.825	.25153	.53154	.34419	.52304	.32217	.32733
#1	-.00467	123.39	.21543	.08283	.18037	206.58	79.598
#2	L-.00560	122.96	.21381	.08243	.17904	205.64	79.230
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.3023	.00153	.17088	-.00260	13.130	-.00251	12.771
SDev	.0090	.00183	.00059	.00029	.026	.00796	.043
%RSD	.20852	119.15	.34217	11.335	.20149	317.49	.33558
#1	4.3086	.00282	.17129	-.00280	13.149	-.00814	12.802
#2	4.2960	.00024	.17047	-.00239	13.112	.00312	12.741
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.37714	.47529	.01626	-.00361	.00340	.06347	.03851
SDev	.00130	.00165	.00441	.00797	.00060	.00022	.00135
%RSD	.34515	.34704	27.121	220.90	17.660	.34010	3.5115
#1	.37806	.47646	.01314	.00203	.00297	.06362	.03756
#2	.37622	.47412	.01938	-.00924	.00382	.06331	.03947
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00044	-.00723	.0508	1.209	1.336
SDev	.00056	.00836	.0012	.004	.021
%RSD	129.36	115.63	2.430	.2954	1.602
#1	-.00004	-.00132	.0499	1.212	1.351
#2	-.00084	-.01314	.0516	1.207	1.321
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6075	--	--	--	--	--	--
SDev	20.84549	--	--	--	--	--	--
%RSD	.3431504	--	--	--	--	--	--
#1	6060	--	--	--	--	--	--
#2	6089	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLPWP Operator: KT
Run Time: 10/11/00 04:00:45
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05952	L-.01714	.00011	225.72	.06345	3.4896	.00666
SDev	.00256	.00410	.00355	.58	.00106	.0162	.00008
%RSD	4.3059	23.935	3254.8	.25607	1.6780	.46517	1.1437
#1	.05770	L-.01424	-.00240	226.12	.06420	3.5010	.00661
#2	.06133	L-.02004	.00262	225.31	.06270	3.4781	.00672
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00441	132.78	.30914	.13649	.25751	271.10	79.753
SDev	.00085	.35	.00121	.00117	.00100	.51	.247
%RSD	19.246	.25998	.39129	.86034	.38969	.18896	.30915
#1	-.00381	133.03	.31000	.13732	.25822	271.46	79.927
#2	L-.00501	132.54	.30829	.13566	.25680	270.74	79.578
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.9032	.00212	.23618	-.00347	32.633	.00042	16.141
SDev	.0151	.00178	.00169	.00027	.161	.00089	.033
%RSD	.30789	83.809	.71390	7.8979	.49384	210.21	.20476
#1	4.9138	.00337	.23737	-.00327	32.747	-.00020	16.165
#2	4.8925	.00086	.23499	-.00366	32.519	.00105	16.118
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.56352	.54415	-.00295	-.00166	.00365	.07785	.05037
SDev	.00068	.00331	.00923	.00651	.00238	.00314	.00541
%RSD	.12128	.60876	312.52	392.56	65.238	4.0406	10.746
#1	.56303	.54650	-.00948	-.00626	.00533	.08007	.04654
#2	.56400	.54181	.00357	.00295	.00197	.07562	.05419
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.01001	-.02071	.0662	1.016	1.737
SDev	.01126	.00053	.0024	.004	.007
%RSD	112.48	2.5684	3.705	.3964	.3771
#1	-.00205	-.02033	.0644	1.019	1.733
#2	-.01797	-.02108	.0679	1.014	1.742
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	5848	--	--	--	--	--	--
SDev	41.83220	--	--	--	--	--	--
%RSD	.7153665	--	--	--	--	--	--
#1	5818	--	--	--	--	--	--
#2	5877	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLPX2 Operator: KT
Run Time: 10/11/00 04:06:43
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06682	L-.01212	.00022	235.12	.02913	1.6572	.00629
SDev	.00049	.00343	.00191	.05	.00118	.0034	.00004
%RSD	.73249	28.297	868.31	.02010	4.0556	.20394	.68679
#1	.06648	L-.01455	.00157	235.15	.02829	1.6596	.00632
#2	.06717	L-.00970	-.00113	235.08	.02996	1.6548	.00625
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00653	54.226	.34115	.12884	.31803	301.74	112.53
SDev	.00074	.027	.00052	.00036	.00092	.11	.14
%RSD	11.322	.05035	.15303	.27640	.28784	.03563	.12805
#1	L-.00600	54.207	.34152	.12909	.31868	301.66	112.63
#2	L-.00705	54.246	.34078	.12859	.31738	301.81	112.43
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
igh	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.6301	-.00079	.30684	-.00274	36.379	-.00811	16.948
SDev	.0042	.00349	.00130	.00028	.054	.00503	.007
%RSD	.07487	444.37	.42402	10.028	.14728	61.979	.03884
#1	5.6331	.00168	.30776	-.00255	36.417	L-.01167	16.953
#2	5.6272	-.00325	.30592	-.00294	36.341	-.00456	16.944
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.49329	.94512	.00857	-.00250	.00567	.08460	.05795
SDev	.00050	.00008	.00890	.00072	.00428	.00226	.00186
%RSD	.10178	.00826	103.94	28.945	75.576	2.6745	3.2156
#1	.49365	.94518	.00227	-.00199	.00870	.08620	.05663
#2	.49294	.94507	.01486	-.00301	.00264	.08300	.05927
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00189	-.01723	.1678	.6373	1.577
SDev	.01305	.00137	.0011	.0014	.012
%RSD	691.28	7.9761	.6453	.2217	.7519
#1	-.01112	-.01626	.1685	.6383	1.585
#2	.00734	-.01820	.1670	.6363	1.568
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	5983	--	--	--	--	--	--
SDev	38.60775	--	--	--	--	--	--
%RSD	.6453060	--	--	--	--	--	--
#1	5956	--	--	--	--	--	--
#2	6010	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLPX4 Operator: KT
Run Time: 10/11/00 04:12:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04118	L-.00620	-.00377	179.93	.04609	1.8267	.00503
SDev	.00032	.00724	.00376	.10	.00286	.0060	.00003
%RSD	.76415	116.87	99.823	.05602	6.2121	.32856	.56013
#1	.04096	L-.01132	-.00642	180.00	.04811	1.8310	.00505
#2	.04141	-.00108	-.00111	179.86	.04406	1.8225	.00501
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00454	236.01	.27913	.08799	.26452	217.24	86.315
SDev	.00003	.22	.00105	.00085	.00054	.14	.281
%RSD	.70545	.09148	.37804	.97079	.20475	.06267	.32580
#1	-.00452	236.16	.27988	.08739	.26490	217.34	86.514
#2	-.00456	235.86	.27839	.08860	.26414	217.15	86.116
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.5228	-.00241	.24170	-.00261	21.756	-.00406	11.990
SDev	.0054	.00171	.00009	.00027	.091	.00213	.011
%RSD	.15463	71.004	.03818	10.439	.41949	52.484	.09508
#1	3.5266	-.00120	.24164	-.00242	21.821	-.00255	11.998
#2	3.5189	-.00362	.24177	-.00281	21.692	-.00556	11.981
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.38282	.55221	.00048	-.00696	.00263	.06115	.03122
SDev	.00075	.00065	.00001	.00442	.00244	.00142	.00118
%RSD	.19499	.11830	1.7917	63.444	92.892	2.3229	3.7834
#1	.38230	.55267	.00048	-.01008	.00090	.06216	.03038
#2	.38335	.55175	.00049	-.00384	.00436	.06015	.03205
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00045	-.00951	.1082	1.629	1.476
ev	.00439	.00867	.0020	.005	.005
%RSD	975.82	91.087	1.809	.3316	.3570
#1	-.00265	-.01564	.1095	1.633	1.479
#2	.00355	-.00339	.1068	1.625	1.472
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6093	--	--	--	--	--	--
SDev	31.19763	--	--	--	--	--	--
%RSD	.5120259	--	--	--	--	--	--
#1	6071	--	--	--	--	--	--
#2	6115	--	--	--	--	--	--

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Method: QTESTNAK Sample Name: CCVT Operator: KT
Run Time: 10/11/00 04:18:39
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50396	.50566	.50238	24.872	.50010	1.9691	2.0498
SDev	.00216	.00026	.00080	.077	.00092	.0002	.0014
%RSD	.42937	.05131	.15905	.31128	.18364	.01107	.06884
#1	.50243	.50584	.50181	24.926	.50075	1.9692	2.0488
#2	.50549	.50547	.50294	24.817	.49945	1.9689	2.0508
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	.55000	.55000	27.500	.55000	2.2000	2.2000
Low	.45000	.45000	.45000	22.500	.45000	1.8000	1.8000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51419	102.83	2.0289	2.0409	1.9889	25.718	99.507
SDev	.00145	.04	.0037	.0013	.0054	.040	.048
%RSD	.28258	.04090	.18391	.06442	.27318	.15616	.04849
#1	.51316	102.86	2.0262	2.0399	1.9927	25.689	99.541
#2	.51522	102.80	2.0315	2.0418	1.9850	25.746	99.473
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	110.00	2.2000	2.2000	2.2000	27.500	110.00
Low	.45000	90.000	1.8000	1.8000	1.8000	22.500	90.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0278	2.0336	2.0610	.99521	51.100	.96213	1.9403
SDev	.0007	.0129	.0038	.00093	.241	.00787	.0011
%RSD	.03625	.63449	.18525	.09390	.47200	.81813	.05720
#1	2.0272	2.0244	2.0637	.99587	51.270	.95656	1.9395
#2	2.0283	2.0427	2.0583	.99455	50.929	.96770	1.9411
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000		1.1000	2.2000
Low	1.8000	1.8000	1.8000	.90000		.90000	1.8000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	1.9917	2.0418	1.9873	.50164	.50386	.50493	.50347
SDev	.0015	.0002	.0009	.00242	.00245	.00052	.00298
%RSD	.07689	.00919	.04293	.48259	.48616	.10395	.59230
#1	1.9907	2.0417	1.9867	.49992	.50559	.50456	.50136
#2	1.9928	2.0419	1.9879	.50335	.50213	.50530	.50558
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	2.2000	2.2000	2.2000				
Low	1.8000	1.8000	1.8000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.50561	.50568	1.898	1.980	1.968
SDev	.00230	.00076	.001	.000	.002
%RSD	.45443	.14992	.0417	.0155	.1033
#1	.50724	.50515	1.898	1.980	1.969
#2	.50399	.50622	1.899	1.980	1.967
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			2.200	2.200	2.200
Low			1.800	1.800	1.800

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	5953	--	--	--	--	--	--
SDev	11.03093	--	--	--	--	--	--
%RSD	.1852930	--	--	--	--	--	--
#1	5945	--	--	--	--	--	--
#2	5961	--	--	--	--	--	--

Analysis Report QC Standard 10/11/00 04:32:38 AM page 1

Method: QTESTNAK Sample Name: CCBT' Operator: KT
Run Time: 10/11/00 04:26:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00065	.00216	-.00105	.09234	-.00054	-.00001	-.00009
SDev	.00077	.00098	.00291	.00030	.00150	.00024	.00000
%RSD	119.59	45.357	277.37	.32459	277.78	3428.6	.10151
#1	.00010	.00285	-.00311	.09213	.00052	-.00017	-.00009
#2	.00120	.00146	.00101	.09255	-.00160	.00016	-.00009
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	.00500	.06000	.20000	.01000	.02000	.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00061	-.03817	.00037	-.00049	-.00328	-.02197	-.01687
SDev	.00029	.01563	.00011	.00000	.00003	.00307	.00379
%RSD	47.168	40.953	28.731	.66538	.93113	13.964	22.464
#1	-.00041	-.04922	.00045	-.00050	-.00326	-.01980	-.01955
#2	-.00081	-.02712	.00029	-.00049	-.00330	-.02413	-.01419
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00001	.00121	.00048	-.00015	-.10480	-.00463	.00004
SDev	.00000	.00181	.00000	.00021	.00133	.00316	.00001
%RSD	12.598	150.13	.00000	141.57	1.2735	68.167	12.678
#1	-.00001	.00248	.00048	-.00030	-.10574	-.00240	.00004
#2	-.00001	-.00007	.00048	.00000	-.10386	-.00686	.00005
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01500	.04000	.04000	.01000	5.0000	.01000	.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	-.00133	.00049	.00645	-.00310	.00306	.00743	-.00274
SDev	.00000	.00001	.00874	.00391	.00091	.00308	.00037
%RSD	.06589	1.8011	135.52	126.15	29.688	41.404	13.640
#1	-.00133	.00050	.01263	-.00587	.00242	.00525	-.00247
#2	-.00133	.00049	.00027	-.00034	.00370	.00960	-.00300
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.00000	.00000	.00000				
Range	.05000	.02000	.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

001137

Units			ppm	ppm	ppm
[illegible]e	.00687	-.00020	.0010	<.0000	<.0000
SDev	.00059	.00117	.0014	.0000	.0023
%RSD	8.5544	594.17	141.4	.0000	17.06
#1	.00729	.00063	.0020	<.0000	<.0000
#2	.00646	-.00103	.0000	<.0000	<.0000
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value			.0000	.0000	.0000
Range			.2000	.0500	.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6136	--	--	--	--	--	--
SDev	20.05345	--	--	--	--	--	--
%RSD	.3268046	--	--	--	--	--	--
#1	6122	--	--	--	--	--	--
#2	6150	--	--	--	--	--	--

Analysis Report 10/11/00 04:38:36 AM

Method: QTESTNAK Sample Name: DLQ12 Operator: KT
Run Time: 10/11/00 04:32:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06366	L-.00849	-.00317	281.53	.03485	1.3738	.00623
SDev	.00271	.00577	.00109	.70	.00447	.0036	.00004
%RSD	4.2552	67.950	34.528	.24995	12.828	.26349	.61099
#1	.06174	L-.01257	-.00239	282.03	.03169	1.3764	.00626
#2	.06557	-.00441	-.00394	281.04	.03801	1.3712	.00620
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00762	36.608	.33129	.14623	.19147	303.87	69.986
SDev	.00017	.061	.00079	.00095	.00026	.69	.208
%RSD	2.1673	.16559	.23883	.65004	.13772	.22589	.29668
#1	L-.00751	36.651	.33185	.14691	.19166	304.35	70.133
#2	L-.00774	36.565	.33073	.14556	.19129	303.38	69.839
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1804	.00134	.19401	-.00298	9.8135	.01092	14.965
SDev	.0095	.00533	.00108	.00027	.1712	.00019	.028
%RSD	.18321	398.63	.55717	9.0329	1.7447	1.7787	.18633
#1	5.1871	.00510	.19478	-.00279	9.9345	.01078	14.985
#2	5.1737	-.00243	.19325	-.00317	9.6924	.01105	14.946
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5.000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.61221	.58840	.00198	-.00741	.00534	.08451	.05324
SDev	.00019	.00112	.00000	.00127	.00073	.00102	.00457
%RSD	.03136	.19058	.12780	17.171	13.749	1.2077	8.5839
#1	.61208	.58919	.00198	-.00651	.00586	.08523	.05001
#2	.61235	.58761	.00198	-.00831	.00482	.08379	.05648
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	S14205	Si2881

Units			ppm	ppm	ppm
ge	-.00202	-.01172	.0544	.4566	1.706
SDev	.00440	.00645	.0017	.0012	.009
%RSD	218.46	55.028	3.130	.2570	.5024
#1	-.00513	-.01628	.0556	.4575	1.712
#2	.00110	-.00716	.0532	.4558	1.699
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6117	--	--	--	--	--	--
SDev	34.16727	--	--	--	--	--	--
%RSD	.5585626	--	--	--	--	--	--
#1	6093	--	--	--	--	--	--
#2	6141	--	--	--	--	--	--

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Method: QTESTNAK Sample Name: DLQ1X Operator: KT
Run Time: 10/11/00 04:38:41
C ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05379	-.00190	-.00434	273.79	.02814	1.1336	.00733
SDev	.00008	.00211	.00347	.00	.00050	.0002	.00008
%RSD	.15428	111.34	79.764	.00135	1.7696	.02138	1.0692
#1	.05384	-.00339	-.00189	273.79	.02779	1.1334	.00727
#2	.05373	-.00040	-.00680	273.79	.02849	1.1337	.00739
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00714	26.904	.23148	.09568	.15841	236.40	47.648
SDev	.00040	.040	.00027	.00067	.00036	.12	.014
%RSD	5.6481	.14730	.11524	.69835	.22813	.04992	.03016
#1	L-.00685	26.876	.23167	.09521	.15867	236.32	47.637
#2	L-.00742	26.932	.23129	.09616	.15815	236.49	47.658
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.4808	.00074	.16956	-.00266	7.8126	-.00188	14.493
SDev	.0132	.00350	.00236	.00006	.0215	.00121	.006
%RSD	.29467	476.38	1.3936	2.2533	.27533	64.331	.04327
#1	4.4714	.00321	.16789	-.00261	7.7974	-.00273	14.488
#2	4.4901	-.00174	.17123	-.00270	7.8278	-.00102	14.497
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.47880	.47943	.00402	-.00811	.00320	.07369	.04385
SDev	.00040	.00171	.00881	.00342	.00356	.00540	.00257
%RSD	.08254	.35722	219.23	42.123	111.29	7.3262	5.8630
#1	.47852	.47822	-.00221	-.00570	.00572	.07751	.04203
#2	.47908	.48064	.01025	-.01053	.00068	.06987	.04567
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
ge	-.00229	-.00171	.0538	.3296	1.860
SDev	.00305	.00165	.0003	.0003	.002
%RSD	133.43	96.568	.5721	.0945	.0837
#1	-.00444	-.00287	.0540	.3294	1.861
#2	-.00013	-.00054	.0536	.3299	1.859
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6071	--	--	--	--	--	--
SDev	34.73317	--	--	--	--	--	--
%RSD	.5721161	--	--	--	--	--	--
#1	6046	--	--	--	--	--	--
#2	6096	--	--	--	--	--	--

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Method: QTESTNAK Sample Name: DLQ22 Operator: KT
Run Time: 10/11/00 04:45:12
C ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.17533	-.00498	-.00209	205.18	.04007	1.0577	.00573
SDev	.00065	.00215	.00069	.33	.00524	.0003	.00003
%RSD	.36856	43.162	32.857	.16327	13.070	.02537	.49682
#1	.17579	L-.00650	-.00160	204.95	.03637	1.0579	.00575
#2	.17487	-.00346	-.00257	205.42	.04378	1.0575	.00571
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00608	36.104	.24292	.12418	.21938	221.73	43.741
SDev	.00004	.051	.00009	.00069	.00088	.06	.014
%RSD	.69042	.14243	.03817	.55833	.39928	.02519	.03251
#1	L-.00605	36.068	.24286	.12467	.21876	221.69	43.751
#2	L-.00611	36.141	.24299	.12369	.22000	221.77	43.731
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.2570	.00225	.15991	-.00258	6.9762	.00771	10.192
SDev	.0042	.00009	.00010	.00001	.0268	.00847	.002
%RSD	.08003	3.8988	.06082	.36184	.38358	109.78	.02334
#1	5.2540	.00219	.15998	-.00259	6.9951	.01370	10.194
#2	5.2600	.00231	.15984	-.00257	6.9573	.00173	10.191
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5.0000	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.43034	.50969	.00667	-.00453	.00280	.19236	.16683
SDev	.00028	.00125	.00003	.00145	.00496	.00383	.00094
%RSD	.06379	.24502	.51519	32.027	176.99	1.9920	.56598
#1	.43053	.50880	.00669	-.00555	.00631	.19507	.16616
#2	.43014	.51057	.00664	-.00350	-.00071	.18965	.16750
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

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Units			ppm	ppm	ppm
ge	-.00059	-.00717	.0369	.3864	1.371
SDev	.00020	.00313	.0002	.0000	.018
%RSD	33.542	43.560	.4686	.0014	1.346
#1	-.00074	-.00938	.0370	.3864	1.358
#2	-.00045	-.00496	.0368	.3864	1.384
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6224	--	--	--	--	--	--
SDev	29.16090	--	--	--	--	--	--
%RSD	.4685521	--	--	--	--	--	--
#1	6203	--	--	--	--	--	--
#2	6244	--	--	--	--	--	--

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Method: QTESTNAK Sample Name: DLQ25 Operator: KT
Run Time: 10/11/00 04:51:43
(ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04857	L-.00909	-.00149	248.67	.03207	1.2447	.00625
SDev	.00013	.00747	.00230	.04	.00617	.0002	.00014
%RSD	.26378	82.235	154.28	.01439	19.255	.01312	2.2934
#1	.04866	-.00380	.00014	248.65	.02770	1.2446	.00635
#2	.04848	L-.01437	-.00312	248.70	.03643	1.2449	.00615
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00812	39.698	.27180	.11612	.18636	286.83	68.408
SDev	.00001	.012	.00052	.00017	.00006	.14	.065
%RSD	.12135	.03131	.19071	.14930	.03236	.04910	.09463
#1	L-.00813	39.689	.27217	.11600	.18640	286.74	68.363
#2	L-.00811	39.707	.27144	.11624	.18631	286.93	68.454
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.9177	.00124	.18205	-.00344	9.1109	.00422	15.594
SDev	.0034	.00010	.00059	.00020	.0170	.00112	.010
%RSD	.06991	7.7874	.32596	5.8199	.18694	26.669	.06268
#1	4.9152	.00117	.18247	-.00330	9.1229	.00501	15.588
#2	4.9201	.00131	.18163	-.00359	9.0988	.00342	15.601
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5.000	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.56487	.58192	-.00043	-.00338	.00230	.07065	.03755
SDev	.00126	.00099	.00435	.00266	.00158	.00592	.00276
%RSD	.22261	.17060	1013.2	78.600	68.933	8.3747	7.3552
#1	.56398	.58122	.00265	-.00150	.00342	.07484	.03560
#2	.56576	.58262	-.00350	-.00526	.00118	.06647	.03950
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
ʳge	-.01152	-.00787	.0370	.4593	1.587
ɔDev	.01351	.00446	.0026	.0001	.005
%RSD	117.35	56.599	7.117	.0312	.2955
#1	-.00196	-.00472	.0352	.4594	1.584
#2	-.02107	-.01102	.0389	.4592	1.591
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6205	--	--	--	--	--	--
SDev	20.27995	--	--	--	--	--	--
%RSD	.3268313	--	--	--	--	--	--
#1	6191	--	--	--	--	--	--
#2	6219	--	--	--	--	--	--

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Method: QTESTNAK Sample Name: DLQ28 Operator: KT
Run Time: 10/11/00 04:57:41
(ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05783	L-.01136	-.00088	315.78	.02940	1.2760	.00776
SDev	.00023	.00218	.00494	.03	.00714	.0005	.00003
%RSD	.39114	19.193	557.91	.00873	24.268	.03926	.44469
#1	.05799	L-.00982	-.00437	315.76	.02436	1.2763	.00779
#2	.05768	L-.01290	.00261	315.80	.03445	1.2756	.00774
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00839	25.946	.28689	.13711	.20227	298.31	60.752
SDev	.00003	.038	.00013	.00075	.00001	.24	.054
%RSD	.31710	.14508	.04462	.54807	.00284	.08012	.08937
#1	L-.00841	25.920	.28698	.13764	.20227	298.14	60.714
#2	L-.00837	25.973	.28680	.13658	.20228	298.48	60.791
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.9807	.00294	.16757	-.00438	6.0460	.00582	14.413
SDev	.0044	.00170	.00204	.00020	.1452	.00566	.012
%RSD	.07349	57.936	1.2188	4.5770	2.4010	97.348	.08517
#1	5.9776	.00414	.16901	-.00424	6.1487	.00181	14.404
#2	5.9838	.00174	.16612	-.00452	5.9434	.00982	14.422
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.57782	.59540	.00504	-.00279	.00292	.08151	.04601
SDev	.00018	.00201	.00451	.00918	.00356	.00126	.00097
%RSD	.03161	.33706	89.442	329.45	121.86	1.5415	2.1004
#1	.57795	.59398	.00824	-.00928	.00544	.08062	.04670
#2	.57769	.59682	.00185	.00370	.00040	.08240	.04533
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

001147

Units			ppm	ppm	ppm
ge	-.00475	-.01466	.0833	.3624	1.726
SDev	.00333	.00161	.0011	.0000	.012
%RSD	69.957	10.972	1.285	.0007	.7138
#1	-.00240	-.01352	.0825	.3624	1.735
#2	-.00711	-.01580	.0841	.3624	1.718
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6024	--	--	--	--	--	--
SDev	25.22969	--	--	--	--	--	--
%RSD	.4188085	--	--	--	--	--	--
#1	6006	--	--	--	--	--	--
#2	6042	--	--	--	--	--	--

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Method: QTESTNAK Sample Name: DLQ2A Operator: KT
Run Time: 10/11/00 05:03:39
C ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13274	-.00437	-.00068	130.52	.01892	.77675	.00367
SDev	.00047	.00332	.00354	.05	.00128	.00242	.00003
%RSD	.35151	75.848	522.52	.03996	6.7738	.31105	.71784
#1	.13307	-.00203	.00183	130.56	.01802	.77846	.00369
#2	.13241	L-.00672	-.00318	130.48	.01983	.77504	.00365
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00319	23.481	.14910	.06885	.13848	145.19	28.511
SDev	.00008	.048	.00014	.00014	.00040	.27	.116
%RSD	2.5411	.20463	.09657	.20309	.28542	.18755	.40824
#1	-.00313	23.515	.14900	.06875	.13820	145.38	28.594
#2	-.00325	23.447	.14920	.06895	.13876	145.00	28.429
'rrors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
.igh	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.9683	.00059	.10227	-.00206	5.0026	.00051	10.534
SDev	.0044	.00185	.00069	.00015	.0023	.00296	.028
%RSD	.11129	311.30	.67572	7.4662	.04556	581.67	.26827
#1	3.9714	-.00071	.10276	-.00216	5.0009	-.00158	10.554
#2	3.9652	.00190	.10179	-.00195	5.0042	.00260	10.514
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.30151	.54533	-.00574	-.00303	.00404	.14345	.12739
SDev	.00073	.00150	.00431	.00388	.00285	.00246	.00193
%RSD	.24087	.27481	75.117	128.12	70.713	1.7147	1.5131
#1	.30202	.54639	-.00269	-.00029	.00606	.14171	.12876
#2	.30100	.54427	-.00878	-.00578	.00202	.14519	.12603
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00759	-.00277	.0286	.2950	1.750
Dev	.00592	.00202	.0012	.0007	.029
%RSD	77.968	72.947	4.198	.2515	1.664
#1	-.00341	-.00134	.0278	.2955	1.770
#2	-.01177	-.00420	.0295	.2945	1.729
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6124	--	--	--	--	--	--
SDev	41.57774	--	--	--	--	--	--
%RSD	.6789355	--	--	--	--	--	--
#1	6095	--	--	--	--	--	--
#2	6153	--	--	--	--	--	--

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Method: QTESTNAK Sample Name: DLQ2C Operator: KT
Run Time: 10/11/00 05:11:45
C ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05000	L-.00796	-.00508	275.55	.02853	1.3515	.00669
SDev	.00006	.00017	.00042	.41	.00879	.0024	.00003
%RSD	.11369	2.1318	8.2933	.15052	30.799	.17550	.45508
#1	.04996	L-.00784	-.00478	275.84	.02232	1.3532	.00671
#2	.05004	L-.00808	-.00538	275.26	.03475	1.3499	.00667
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00736	45.260	.26016	.10245	.21847	251.41	55.202
SDev	.00007	.082	.00003	.00086	.00038	.06	.021
%RSD	.91995	.18187	.01278	.84197	.17202	.02508	.03732
#1	L-.00741	45.202	.26018	.10184	.21873	251.37	55.217
#2	L-.00732	45.318	.26014	.10306	.21820	251.46	55.188
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.6376	.00231	.15828	.00050	7.6263	.00879	13.518
SDev	.0010	.00353	.00200	.00000	.0907	.00235	.004
%RSD	.02252	152.81	1.2616	.80839	1.1888	26.764	.02809
#1	4.6368	.00480	.15969	.00050	7.6904	.01046	13.520
#2	4.6383	-.00019	.15687	.00049	7.5622	.00713	13.515
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.49017	.53277	.00394	-.01069	.00615	.07385	.03809
SDev	.00016	.00147	.00885	.00051	.00229	.00328	.00172
%RSD	.03280	.27542	224.70	4.7688	37.147	4.4411	4.5221
#1	.49006	.53174	.01020	-.01105	.00777	.07617	.03687
#2	.49028	.53381	-.00232	-.01033	.00454	.07153	.03931
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

001151

Units			ppm	ppm	ppm
Avge	.00033	-.01210	.0725	.4081	1.585
SDev	.01029	.00488	.0011	.0005	.011
%RSD	3104.7	40.344	1.514	.1129	.7032
#1	.00761	-.01556	.0717	.4084	1.593
#2	-.00694	-.00865	.0733	.4078	1.577
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6089	--	--	--	--	--	--
SDev	25.79524	--	--	--	--	--	--
%RSD	.4236507	--	--	--	--	--	--
#1	6071	--	--	--	--	--	--
#2	6107	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLQ2E Operator: KT
Run Time: 10/11/00 05:17:44
C ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07113	L-.00814	-.00259	262.77	.03012	1.4044	.00720
SDev	.00148	.01054	.00225	.40	.00114	.0015	.00007
%RSD	2.0791	129.48	86.666	.15179	3.7769	.10723	.95748
#1	.07009	L-.01559	-.00100	263.05	.03092	1.4055	.00715
#2	.07218	-.00069	-.00418	262.49	.02931	1.4033	.00725
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00720	47.801	.37429	.10492	.19081	272.99	62.537
SDev	.00026	.039	.00071	.00052	.00049	.26	.125
%RSD	3.6809	.08185	.19083	.49387	.25589	.09348	.20037
#1	L-.00739	47.829	.37480	.10455	.19116	273.17	62.625
#2	L-.00701	47.773	.37378	.10528	.19047	272.81	62.448
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1416	.00018	.21778	-.00294	12.441	.00032	10.459
SDev	.0009	.00014	.00017	.00012	.025	.00062	.004
%RSD	.01794	78.597	.07677	4.1418	.20351	193.04	.04070
#1	5.1422	.00008	.21790	-.00285	12.459	.00075	10.462
#2	5.1409	.00028	.21766	-.00302	12.423	-.00012	10.456
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5.000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.51670	.53629	.00134	-.00553	.00329	.09389	.05977
SDev	.00177	.00083	.01283	.00060	.00554	.00024	.00210
%RSD	.34162	.15474	956.09	10.881	168.22	.25625	3.5088
#1	.51795	.53687	.01041	-.00511	.00721	.09372	.05828
#2	.51546	.53570	-.00773	-.00596	-.00062	.09406	.06125
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm		
Avge	-.00206	-.01118	.0683	.4892	1.120		
SDev	.01109	.01027	.0018	.0006	.010		
%RSD	538.16	91.856	2.660	.1211	.8733		
#1	-.00990	-.01843	.0695	.4897	1.127		
#2	.00578	-.00392	.0670	.4888	1.113		
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass		
High			110.0	5.500	55.00		
Low			-.2000	-.0500	-.5000		
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6290	--	--	--	--	--	--
SDev	42.05870	--	--	--	--	--	--
%RSD	.6686619	--	--	--	--	--	--
#1	6260	--	--	--	--	--	--
#2	6320	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLQ2F Operator: KT
Run Time: 10/11/00 05:23:42
C ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04975	L-.01009	-.00376	266.28	.02430	1.2905	.00652
SDev	.00126	.00260	.00228	.05	.00147	.0016	.00015
%RSD	2.5371	25.757	60.622	.01888	6.0461	.12046	2.3001
#1	.04886	L-.01192	-.00215	266.32	.02534	1.2894	.00662
#2	.05065	L-.00825	-.00537	266.25	.02326	1.2916	.00641
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00732	31.531	.25700	.12036	.17481	271.27	56.906
SDev	.00118	.013	.00053	.00076	.00015	.05	.026
%RSD	16.074	.04100	.20716	.63557	.08380	.02014	.04641
#1	L-.00649	31.540	.25663	.11982	.17491	271.30	56.888
#2	L-.00815	31.522	.25738	.12090	.17470	271.23	56.925
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0538	.00072	.16267	-.00324	5.2889	-.00464	14.593
SDev	.0078	.00188	.00002	.00013	.1698	.00229	.015
%RSD	.15381	262.95	.01123	4.0431	3.2098	49.303	.10121
#1	5.0483	-.00061	.16266	-.00315	5.4089	-.00303	14.582
#2	5.0592	.00205	.16268	-.00333	5.1689	-.00626	14.603
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.50907	.53735	.00002	-.00794	.00462	.07320	.03805
SDev	.00158	.00082	.01309	.00048	.00781	.00105	.00242
%RSD	.30978	.15200	59251.	6.0590	169.09	1.4408	6.3578
#1	.50795	.53678	-.00923	-.00828	.01014	.07395	.03634
#2	.51018	.53793	.00928	-.00760	-.00090	.07245	.03976
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.01169	-.00929	.0393	.3741	1.616
SDev	.00945	.00861	.0026	.0002	.006
%RSD	80.852	92.773	6.678	.0635	.3571
#1	-.00501	-.01538	.0374	.3740	1.621
#2	-.01838	-.00319	.0412	.3743	1.612
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6153	--	--	--	--	--	--
SDev	24.23982	--	--	--	--	--	--
%RSD	.3939550	--	--	--	--	--	--
#1	6136	--	--	--	--	--	--
#2	6170	--	--	--	--	--	--

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Method: QTESTNAK Sample Name: DLQ2G Operator: KT
Run Time: 10/11/00 05:29:40
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05712	L-.01532	-.00059	253.03	.03821	1.6849	.00702
SDev	.00003	.00198	.00648	5.76	.00365	.0277	.00025
%RSD	.05157	12.904	1099.1	2.2758	9.5589	1.6443	3.5819
#1	.05710	L-.01671	-.00517	257.10	.03563	1.7045	.00720
#2	.05714	L-.01392	.00399	248.95	.04079	1.6654	.00684
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00734	60.999	.29824	.13034	.27349	307.41	73.999
SDev	.00025	1.195	.00478	.00165	.00668	6.24	1.274
%RSD	3.3412	1.9597	1.6017	1.2628	2.4442	2.0311	1.7222
#1	L-.00751	61.844	.30162	.13150	.27822	311.82	74.900
#2	L-.00717	60.154	.29486	.12917	.26877	302.99	73.098
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.9622	.00110	.20109	-.00347	8.0041	.00927	16.887
SDev	.0942	.00717	.00307	.00006	.2144	.00118	.339
%RSD	1.5801	653.02	1.5259	1.7969	2.6786	12.764	2.0050
#1	6.0288	.00617	.20326	-.00352	8.1557	.00843	17.126
#2	5.8956	-.00397	.19892	-.00343	7.8525	.01010	16.647
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5.000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.59252	.70609	-.00451	-.00226	.00276	.08041	.04549
SDev	.01096	.01229	.00036	.00992	.00041	.00140	.00066
%RSD	1.8502	1.7401	7.8955	438.84	14.943	1.7458	1.4435
#1	.60027	.71478	-.00476	-.00928	.00305	.07942	.04596
#2	.58477	.69741	-.00426	.00476	.00247	.08140	.04503
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

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Units			ppm	ppm	ppm
Avge	-.00209	-.02192	.0425	.6170	1.340
SDev	.00537	.00565	.0008	.0099	.031
%RSD	257.65	25.752	1.852	1.597	2.348
#1	.00171	-.02591	.0431	.6240	1.362
#2	-.00588	-.01793	.0420	.6101	1.317
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6258	--	--	--	--	--	--
SDev	115.8806	--	--	--	--	--	--
%RSD	1.851666	--	--	--	--	--	--
#1	6176	--	--	--	--	--	--
#2	6340	--	--	--	--	--	--

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Method: QTESTNAK Sample Name: CCVT Operator: KT
Run Time: 10/11/00 05:35:38
C ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50495	.49835	.50148	24.619	.50316	1.9621	2.0470
SDev	.00232	.00974	.00136	.020	.00056	.0039	.0022
%RSD	.45981	1.9551	.27092	.08061	.11176	.19777	.10707
#1	.50331	.50524	.50052	24.605	.50356	1.9593	2.0486
#2	.50659	.49146	.50244	24.633	.50276	1.9648	2.0455
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	.55000	.55000	27.500	.55000	2.2000	2.2000
Low	.45000	.45000	.45000	22.500	.45000	1.8000	1.8000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51702	102.90	2.0285	2.0413	1.9687	25.663	98.827
SDev	.00107	.11	.0010	.0059	.0000	.059	.219
%RSD	.20746	.10888	.04858	.29036	.00251	.23056	.22152
#1	.51627	102.98	2.0278	2.0371	1.9687	25.705	98.672
#2	.51778	102.82	2.0292	2.0455	1.9686	25.622	98.981
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	110.00	2.2000	2.2000	2.2000	27.500	110.00
Low	.45000	90.000	1.8000	1.8000	1.8000	22.500	90.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0228	2.0314	2.0558	.98972	50.639	.98181	1.9258
SDev	.0028	.0260	.0023	.00021	.017	.00878	.0028
%RSD	.13964	1.2800	.11160	.02132	.03320	.89417	.14522
#1	2.0208	2.0130	2.0542	.98957	50.651	.97560	1.9277
#2	2.0248	2.0498	2.0574	.98987	50.628	.98802	1.9238
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000		1.1000	2.2000
Low	1.8000	1.8000	1.8000	.90000		.90000	1.8000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	1.9803	2.0414	1.9935	.50343	.49757	.50179	.50653
SDev	.0007	.0008	.0110	.00359	.00312	.00588	.00054
%RSD	.03775	.03742	.55338	.71400	.62701	1.1729	.10714
#1	1.9808	2.0409	1.9857	.50089	.49978	.49762	.50615
#2	1.9798	2.0420	2.0013	.50597	.49536	.50595	.50691
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	2.2000	2.2000	2.2000				
Low	1.8000	1.8000	1.8000				

Elem	1960_1	1960_2	B_2496	S14295	Si2881

001139

Units			ppm	ppm	ppm
Avge	.50634	.49436	1.896	1.972	1.951
SDev	.00659	.01132	.016	.004	.013
%RSD	1.3007	2.2897	.8550	.1808	.6619
#1	.51100	.50236	1.884	1.969	1.942
#2	.50168	.48635	1.907	1.974	1.960
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			2.200	2.200	2.200
Low			1.800	1.800	1.800

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6002	--	--	--	--	--	--
SDev	20.84549	--	--	--	--	--	--
%RSD	.3473242	--	--	--	--	--	--
#1	5987	--	--	--	--	--	--
#2	6016	--	--	--	--	--	--

Method: QTESTNAK Sample Name: CCBT, Operator: KT
Run Time: 10/11/00 05:43:44
ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00046	-.00164	-.00113	.09528	-.00061	.00016	-.00026
SDev	.00110	.00345	.00004	.00267	.00343	.00000	.00000
%RSD	237.57	209.69	3.8092	2.8060	558.65	.37623	.03718
#1	.00031	.00079	-.00116	.09339	.00181	.00016	-.00026
#2	-.00124	-.00408	-.00110	.09717	-.00304	.00016	-.00026
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	.00500	.06000	.20000	.01000	.02000	.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00051	-.02777	.00049	.00051	-.00355	-.02853	-.01422
SDev	.00006	.00024	.00068	.00000	.00029	.00608	.00005
%RSD	11.785	.87375	138.25	.00961	8.2634	21.312	.32850
#1	-.00055	-.02794	.00097	.00051	-.00375	-.03283	-.01425
#2	-.00046	-.02760	.00001	.00051	-.00334	-.02423	-.01419
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00015	.00118	.00048	-.00015	-.03428	-.00652	.00005
SDev	.00023	.00179	.00000	.00007	.00060	.00307	.00000
%RSD	151.14	152.30	.00000	47.269	1.7646	47.115	5.1212
#1	.00031	-.00009	.00048	-.00010	-.03385	-.00435	.00006
#2	-.00001	.00244	.00048	-.00020	-.03471	-.00869	.00005
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01500	.04000	.04000	.01000	5.0000	.01000	.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	-.00036	.00101	.00034	-.00364	.00391	.00697	-.00417
SDev	.00045	.00076	.00868	.00021	.00029	.00002	.00166
%RSD	127.38	75.247	2576.7	5.6867	7.3172	.34401	39.692
#1	-.00004	.00155	-.00580	-.00379	.00411	.00695	-.00300
#2	-.00068	.00047	.00647	-.00350	.00370	.00699	-.00534
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.00000	.00000	.00000				
Range	.05000	.02000	.10000				

Elem	1960_1	1960_2	B_2496	Sr4216	Si2881

0011-1

Units			ppm	ppm	ppm
Avge	.00661	-.00577	.0000	.0001	<.0000
ev	.00269	.00651	.0000	.0000	.0003
%RSD	40.692	112.92	.0000	.3663	2.505
#1	.00471	-.00116	.0000	.0001	<.0000
#2	.00851	-.01037	.0000	.0001	<.0000
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value			.0000	.0000	.0000
Range			.2000	.0500	.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6180	--	--	--	--	--	--
SDev	11.08756	--	--	--	--	--	--
%RSD	.1794057	--	--	--	--	--	--
#1	6188	--	--	--	--	--	--
#2	6172	--	--	--	--	--	--

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Method: QTESTNAK Sample Name: DLQ2H Operator: KT
Run Time: 10/11/00 05:49:42
C ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04983	-.00116	-.00258	140.34	.01491	.88158	.00391
SDev	.00199	.00267	.00029	.01	.00206	.00054	.00001
%RSD	4.0014	230.29	11.259	.00955	13.827	.06089	.14755
#1	.04842	.00073	-.00237	140.35	.01346	.88196	.00392
#2	.05124	-.00305	-.00278	140.34	.01637	.88120	.00391
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00422	25.792	.16923	.07436	.23886	159.39	31.077
SDev	.00060	.042	.00024	.00014	.00089	.18	.007
%RSD	14.332	.16410	.14406	.18118	.37053	.11069	.02365
#1	-.00465	25.762	.16940	.07446	.23948	159.26	31.072
#2	-.00379	25.822	.16906	.07427	.23823	159.51	31.082
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.1739	.00351	.10482	-.00247	4.7007	.00496	12.617
SDev	.0023	.00350	.00144	.00035	.1152	.00459	.006
%RSD	.05398	99.521	1.3745	14.189	2.4512	92.405	.04410
#1	4.1723	.00599	.10584	-.00272	4.7822	.00821	12.621
#2	4.1755	.00104	.10380	-.00222	4.6192	.00172	12.613
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5.000	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.32989	.39937	.01759	-.00570	.00367	.06525	.04213
SDev	.00049	.00090	.00428	.00224	.00363	.00285	.00157
%RSD	.14793	.22535	24.321	39.402	98.793	4.3690	3.7173
#1	.33024	.39874	.01456	-.00411	.00111	.06323	.04103
#2	.32955	.40001	.02061	-.00728	.00623	.06726	.04324
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00066	-.00207	.0310	.2963	1.442
SDev	.00141	.00471	.0027	.0000	.003
%RSD	213.84	227.66	8.699	.0113	.2234
#1	-.00034	.00126	.0291	.2963	1.439
#2	.00166	-.00540	.0329	.2964	1.444
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6249	--	--	--	--	--	--
SDev	8.768055	--	--	--	--	--	--
%RSD	.1403167	--	--	--	--	--	--
#1	6243	--	--	--	--	--	--
#2	6255	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DLQ2J Operator: KT
Run Time: 10/11/00 05:57:48
(ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05253	L-.00806	-.00292	267.11	.03388	1.3131	.00640
SDev	.00225	.00123	.00254	.09	.00080	.0009	.00005
%RSD	4.2866	15.304	86.801	.03338	2.3554	.06642	.73443
#1	.05094	L-.00893	-.00472	267.05	.03331	1.3137	.00644
#2	.05412	L-.00719	-.00113	267.18	.03444	1.3125	.00637
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00756	33.982	.27571	.11342	.22676	267.88	57.655
SDev	.00036	.079	.00001	.00036	.00007	.39	.003
%RSD	4.7723	.23159	.00410	.31815	.03183	.14449	.00542
#1	L-.00730	33.926	.27572	.11368	.22671	267.60	57.652
#2	L-.00781	34.038	.27570	.11317	.22681	268.15	57.657
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.8110	.00101	.17070	-.00334	6.8354	-.00127	14.814
SDev	.0055	.00155	.00244	.00002	.0572	.01171	.012
%RSD	.11477	153.81	1.4301	.58435	.83642	919.80	.08123
#1	4.8071	.00210	.17243	-.00335	6.8759	-.00956	14.805
#2	4.8149	-.00009	.16898	-.00332	6.7950	.00701	14.822
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.53418	.54952	.00598	-.00528	.00179	.07383	.04189
SDev	.00022	.00042	.00418	.00507	.00252	.00278	.00477
%RSD	.04089	.07553	69.914	95.930	140.61	3.7679	11.374
#1	.53403	.54923	.00302	-.00886	.00358	.07580	.03852
#2	.53434	.54981	.00893	-.00170	.00001	.07187	.04526
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00169	-.01124	.0593	.4119	1.435
SDev	.00239	.00304	.0004	.0003	.007
%RSD	141.34	27.073	.6820	.0614	.4656
#1	-.00000	-.01339	.0596	.4121	1.439
#2	-.00338	-.00909	.0591	.4118	1.430
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6316	--	--	--	--	--	--
SDev	43.07689	--	--	--	--	--	--
%RSD	.6819783	--	--	--	--	--	--
#1	6286	--	--	--	--	--	--
#2	6347	--	--	--	--	--	--

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Method: QTESTNAK Sample Name: DLQ2L Operator: KT
Run Time: 10/11/00 06:03:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05066	L-.01408	-.00574	264.12	.03120	1.3046	.00643
SDev	.00034	.00039	.00212	.74	.00324	.0011	.00004
%RSD	.66330	2.7550	36.888	.27840	10.392	.08433	.59987
#1	.05090	L-.01435	-.00724	264.64	.02891	1.3054	.00646
#2	.05043	L-.01381	-.00424	263.60	.03349	1.3038	.00641
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00821	32.848	.23686	.12670	.18418	277.91	62.205
SDev	.00052	.008	.00003	.00021	.00020	.02	.000
%RSD	6.2905	.02395	.01258	.16859	.11143	.00721	.00033
#1	L-.00857	32.854	.23684	.12685	.18433	277.90	62.205
#2	L-.00784	32.843	.23688	.12655	.18404	277.93	62.205
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.6460	-.00118	.15873	-.00356	7.6932	.00543	15.180
SDev	.0082	.00164	.00043	.00020	.1334	.00155	.004
%RSD	.14457	139.33	.27352	5.5069	1.7343	28.639	.02557
#1	5.6402	-.00002	.15842	-.00342	7.7875	.00653	15.177
#2	5.6518	-.00234	.15904	-.00369	7.5988	.00433	15.182
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.52256	.55480	.00901	-.01040	.00359	.07552	.03825
SDev	.00018	.00284	.00006	.00617	.00599	.00261	.00080
%RSD	.03471	.51172	.66297	59.292	166.76	3.4618	2.0950
#1	.52243	.55280	.00905	-.01476	.00783	.07737	.03769
#2	.52269	.55681	.00897	-.00604	-.00064	.07367	.03882
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00855	-.01684	.0482	.4076	1.504
SDev	.00096	.00010	.0017	.0002	.009
%RSD	11.207	.61423	3.443	.0529	.5765
#1	-.00922	-.01692	.0494	.4078	1.510
#2	-.00787	-.01677	.0471	.4075	1.498
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6143	--	--	--	--	--	--
SDev	34.25221	--	--	--	--	--	--
%RSD	.5575395	--	--	--	--	--	--
#1	6119	--	--	--	--	--	--
#2	6168	--	--	--	--	--	--

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Method: QTESTNAK Sample Name: DLQ2N Operator: KT
Run Time: 10/11/00 06:09:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07464	L-.01663	-.00199	360.33	.03689	1.6592	.00889
SDev	.00101	.00171	.00014	1.36	.00107	.0007	.00003
%RSD	1.3552	10.272	7.1720	.37721	2.9063	.04232	.32913
#1	.07536	L-.01542	-.00209	361.30	.03613	1.6587	.00891
#2	.07393	L-.01784	-.00189	359.37	.03765	1.6597	.00887
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00933	51.855	.35991	.19077	.24351	358.95	80.628
SDev	.00091	.044	.00141	.00076	.00188	.01	.052
%RSD	9.7607	.08504	.39110	.40047	.77060	.00300	.06466
#1	L-.00869	51.824	.35891	.19023	.24483	358.96	80.591
#2	L-.00997	51.887	.36090	.19131	.24218	358.95	80.664
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.9361	-.00054	.22388	-.00366	11.068	.01148	15.261
SDev	.0069	.00168	.00127	.00029	.084	.00085	.032
%RSD	.09902	313.60	.56613	7.9415	.76318	7.4462	.20663
#1	6.9313	.00065	.22298	-.00386	11.128	.01088	15.284
#2	6.9410	-.00173	.22478	-.00345	11.008	.01209	15.239
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5.0000	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.67804	.71640	.00231	-.00536	.00477	.10247	.06075
SDev	.00081	.00246	.00437	.00272	.00502	.00092	.00106
%RSD	.11910	.34383	188.99	50.740	105.23	.89621	1.7417
#1	.67861	.71814	-.00078	-.00729	.00832	.10312	.06150
#2	.67746	.71466	.00540	-.00344	.00122	.10182	.06001
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	-.00419	-.02284	.0678	.5072	1.503
Dev	.00608	.00048	.0016	.0003	.009
%RSD	145.03	2.0850	2.364	.0676	.5954
#1	.00011	-.02317	.0689	.5069	1.497
#2	-.00850	-.02250	.0666	.5074	1.510
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6157	--	--	--	--	--	--
SDev	19.37466	--	--	--	--	--	--
%RSD	.3146984	--	--	--	--	--	--
#1	6143	--	--	--	--	--	--
#2	6170	--	--	--	--	--	--

Analysis Report 10/11/00 06:21:37 AM page 1

Method: QTESTNAK Sample Name: DLVEG Operator: KT
Run Time: 10/11/00 06:15:42
C ent:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00157	.03707	.00433	.13229	.00101	.00047	-.00017
SDev	.00066	.00320	.00163	.00121	.00218	.00000	.00012
%RSD	42.035	8.6243	37.720	.91784	216.05	.28476	67.951
#1	.00204	.03933	.00317	.13143	.00255	.00047	-.00025
#2	.00110	.03481	.00548	.13314	-.00053	.00047	-.00009
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00030	.27175	.00034	.00002	-.00141	.00487	-.00170
SDev	.00021	.00090	.00001	.00068	.00056	.01162	.00364
%RSD	71.064	.33211	1.3959	4387.2	39.554	238.67	213.77
#1	-.00045	.27238	.00034	-.00046	-.00101	-.00335	-.00428
#2	-.00015	.27111	.00033	.00050	-.00180	.01309	.00087
rrors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
igh	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00107	-.00747	.00182	.00019	-.30284	L-.02168	.00475
SDev	.00022	.00001	.00063	.00000	.06586	.00024	.00001
%RSD	20.352	.15096	34.486	.26960	21.748	1.1184	.13517
#1	.00091	-.00748	.00138	.00019	-.34941	L-.02185	.00475
#2	.00122	-.00747	.00227	.00019	-.25626	L-.02151	.00474
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	27.500	27.500	110.00	2.2000	5000.0	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	-.00071	.01400	.04528	.00582	.00134	.00737	-.00132
SDev	.00000	.00004	.00426	.00215	.00059	.00105	.00151
%RSD	.22771	.27646	9.4199	36.989	44.069	14.222	114.28
#1	-.00071	.01402	.04829	.00430	.00092	.00663	-.00025
#2	-.00071	.01397	.04226	.00734	.00176	.00811	-.00239
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

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Units			ppm	ppm	ppm
ge	.05321	.02901	.0000	.0004	.0186
SDev	.00202	.00379	.0000	.0000	.0010
%RSD	3.7950	13.046	.0000	.2520	5.197
#1	.05464	.03169	.0000	.0004	.0193
#2	.05178	.02634	.0000	.0004	.0179
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6405	--	--	--	--	--	--
SDev	13.29382	--	--	--	--	--	--
%RSD	.2075680	--	--	--	--	--	--
#1	6395	--	--	--	--	--	--
#2	6414	--	--	--	--	--	--

Method: QTESTNAK Sample Name: DK2CF 7X Operator: KT
Run Time: 10/11/00 06:21:41
C ment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07887	.00100	.00148	13.360	.00597	.28139	.00021
SDev	.00102	.00007	.00032	.071	.00208	.00010	.00000
%RSD	1.2983	7.2885	21.543	.53111	34.879	.03539	.13769
#1	.07959	.00095	.00171	13.410	.00450	.28146	.00021
#2	.07814	.00105	.00126	13.310	.00744	.28132	.00021
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	11.000	5.5000	550.00	11.000	11.000	11.000
Low	-.00500	-.00500	-.06000	-.20000	-.01000	-.02000	-.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00371	6.4407	.02678	.01084	.06522	22.005	4.2370
SDev	.00007	.0025	.00043	.00002	.00071	.048	.0009
%RSD	1.9715	.03874	1.5975	.22580	1.0870	.21629	.02142
#1	.00366	6.4390	.02648	.01086	.06572	22.039	4.2363
#2	.00376	6.4425	.02708	.01082	.06472	21.971	4.2376
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.000	770.00	55.000	110.00	55.000	1100.0	1100.0
Low	-.00500	-5.0000	-.01000	-.05000	-.02500	-.10000	-5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48691	.00213	.03504	-.00010	1.1193	-.00617	.58494
SDev	.00083	.00001	.00058	.00021	.0870	.00197	.00032
%RSD	.17019	.46479	1.6600	206.66	7.7699	31.876	.05532
#1	.48632	.00213	.03462	-.00025	1.1808	-.00478	.58472
#2	.48750	.00212	.03545	.00005	1.0578	-.00756	.58517
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	27.500	110.00	2.2000	5.0000	22.000	55.000
Low	-.01500	-.04000	-.04000	-.01000	-5.0000	-.01000	-.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	.05842	2.8669	-.00058	-.00028	.00501	.08383	.07639
SDev	.00058	.0003	.00003	.00030	.00155	.00129	.00218
%RSD	.98836	.01117	4.6861	105.77	30.966	1.5417	2.8542
#1	.05883	2.8667	-.00059	-.00049	.00611	.08291	.07793
#2	.05801	2.8671	-.00056	-.00007	.00391	.08474	.07485
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	110.00	5.5000	55.000				
Low	-.05000	-.02000	-.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00299	.00001	.0039	.0821	.3399
SDev	.00403	.00212	.0000	.0002	.0010
%RSD	135.10	18043.	.2023	.2110	.2989
#1	.00584	-.00149	.0039	.0820	.3406
#2	.00013	.00151	.0039	.0822	.3392
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			110.0	5.500	55.00
Low			-.2000	-.0500	-.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6207	--	--	--	--	--	--
SDev	12.55840	--	--	--	--	--	--
%RSD	.2023381	--	--	--	--	--	--
#1	6198	--	--	--	--	--	--
#2	6216	--	--	--	--	--	--

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Method: QTESTNAK Sample Name: CCVT Operator: KT
Run Time: 10/11/00 06:29:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51179	.50644	.50512	24.992	.50473	1.9902	2.0791
SDev	.00072	.00055	.00711	.036	.00096	.0034	.0049
%RSD	.13992	.10773	1.4066	.14523	.18917	.17292	.23457
#1	.51128	.50682	.50009	24.966	.50540	1.9878	2.0756
#2	.51229	.50605	.51014	25.017	.50405	1.9926	2.0825
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	.55000	.55000	27.500	.55000	2.2000	2.2000
Low	.45000	.45000	.45000	22.500	.45000	1.8000	1.8000

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52199	104.69	2.0572	2.0711	1.9987	26.110	100.06
SDev	.00310	.29	.0057	.0054	.0032	.087	.25
%RSD	.59346	.27620	.27636	.26235	.15895	.33285	.25062
#1	.51980	104.48	2.0532	2.0673	1.9964	26.049	99.886
#2	.52418	104.89	2.0612	2.0750	2.0009	26.172	100.24
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	110.00	2.2000	2.2000	2.2000	27.500	110.00
Low	.45000	90.000	1.8000	1.8000	1.8000	22.500	90.000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0517	2.0584	2.0919	1.0041	51.372	.98900	1.9530
SDev	.0065	.0277	.0045	.0011	.095	.01292	.0044
%RSD	.31706	1.3451	.21651	.10476	.18471	1.3063	.22703
#1	2.0471	2.0388	2.0887	1.0034	51.305	.97987	1.9499
#2	2.0563	2.0780	2.0951	1.0049	51.440	.99814	1.9562
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000		1.1000	2.2000
Low	1.8000	1.8000	1.8000	.90000		.90000	1.8000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	2.0072	2.0711	2.0293	.50627	.50282	.50841	.51347
SDev	.0060	.0066	.0208	.00539	.01054	.00090	.00152
%RSD	.29995	.31654	1.0249	1.0649	2.0958	.17649	.29632
#1	2.0030	2.0664	2.0440	.50246	.49536	.50905	.51240
#2	2.0115	2.0757	2.0146	.51008	.51027	.50778	.51455
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	2.2000	2.2000	2.2000				
Low	1.8000	1.8000	1.8000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

001175

Units			ppm	ppm	ppm
Avge	.51052	.50440	1.926	1.999	1.972
SDev	.00601	.00218	.015	.004	.015
%RSD	1.1766	.43239	.7571	.1959	.7728
#1	.51477	.50286	1.916	1.996	1.961
#2	.50627	.50594	1.936	2.001	1.982
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High			2.200	2.200	2.200
Low			1.800	1.800	1.800

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	5961	--	--	--	--	--	--
SDev	5.175897	--	--	--	--	--	--
%RSD	.0868291	--	--	--	--	--	--
#1	5965	--	--	--	--	--	--
#2	5957	--	--	--	--	--	--

Analysis Report QC Standard 10/11/00 06:43:47 AM page 1

Method: QTESTNAK Sample Name: CCBT' Operator: KT
Run Time: 10/11/00 06:37:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Pb2203	Se1960	Sb2068	Al3082	As1890	Ba4934	Be3130
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00171	.00131	-.00118	.09205	-.00475	.00016	-.00026
SDev	.00129	.00091	.00081	.00173	.00061	.00000	.00000
%RSD	75.412	69.488	69.089	1.8751	12.823	.66326	.32969
#1	.00080	.00067	-.00176	.09327	-.00518	.00016	-.00026
#2	.00262	.00196	-.00060	.09083	-.00432	.00016	-.00026
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	.00500	.06000	.20000	.01000	.02000	.00500

Elem	Cd_tr	Ca3179	Cr_tr	Co2286	Cu3247	Fe2714	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00021	-.02791	-.00013	.00051	-.00316	-.03496	-.01695
SDev	.00031	.00043	.00038	.00000	.00025	.00300	.00003
%RSD	146.20	1.5272	291.14	.02587	7.7789	8.5739	.14734
#1	.00001	-.02760	-.00040	.00051	-.00334	-.03284	-.01694
#2	-.00043	-.02821	.00014	.00051	-.00299	-.03708	-.01697
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.00500	5.0000	.01000	.05000	.02500	.10000	5.0000

Elem	Mn2576	Mo2020	Ni2316	Ag_tr	Na3302	Tl1908	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00033	-.00009	.00095	-.00020	-.08786	-.00662	.00005
SDev	.00000	.00001	.00065	.00028	.07518	.00698	.00001
%RSD	.00000	9.1752	68.996	141.46	85.575	105.38	9.0416
#1	-.00033	-.00008	.00048	-.00040	-.03469	Q-.01156	.00005
#2	-.00033	-.00010	.00141	.00000	-.14102	-.00169	.00006
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01500	.04000	.04000	.01000	5.0000	.01000	.05000

Elem	V_2924	Zn2138	Sn1899	2068_1	2068_2	2203_1	2203_2
Units	ppm	ppm	ppm				
Avge	-.00100	.00101	-.00887	-.00316	.00280	.00529	-.00008
SDev	.00046	.00075	.00428	.00093	.00431	.00224	.00082
%RSD	45.622	74.523	48.226	29.359	153.98	42.253	1035.0
#1	-.00068	.00048	-.00584	-.00251	-.00025	.00371	-.00066
#2	-.00133	.00154	-.01189	-.00382	.00584	.00687	.00050
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.00000	.00000	.00000				
Range	.05000	.02000	.10000				

Elem	1960_1	1960_2	B_2496	Sr4215	Si2881

Units			ppm	ppm	ppm
Avge	.00857	-.00231	.0000	.0001	<.0000
SDev	.00833	.00279	.0000	.0000	.0001
%RSD	97.207	120.87	.0000	.6456	.9974
#1	.00268	-.00034	.0000	.0001	<.0000
#2	.01446	-.00428	.0000	.0001	<.0000
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value			.0000	.0000	.0000
Range			.2000	.0500	.5000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	6186	--	--	--	--	--	--
SDev	19.54453	--	--	--	--	--	--
%RSD	.3159243	--	--	--	--	--	--
#1	6173	--	--	--	--	--	--
#2	6200	--	--	--	--	--	--

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/10/00
Time: 20:23:16

BATCH NUMBER: **0283485**

PREP DATE: 10/10/00
DUE DATE 10/12/00

INITIALS: DB

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
E0J060355	DLPWC	01	X 1.00 g	____g	____g	____g
SOLID	TO DUE DATE:		10/12/00			
	DLPWCS		1.01 g	____g	____g	____g
	DLPWCD		1.00g	____g	____g	____g
E0J060355	DLPWK	01	X 1.00 g	____g	____g	____g
SOLID	TO DUE DATE:		10/12/00			
E0J060355	DLPWP	01	X .99 g	____g	____g	____g
SOLID	TO DUE DATE:		10/12/00			
E0J060355	DLPX2	01	X .99 g	____g	____g	____g
SOLID	TO DUE DATE:		10/12/00			
E0J060355	DLPX4	01	X 1.01 g	____g	____g	____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ12	01	X 1.01 g	____g	____g	____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ1X	01	X 1.00 g	____g	____g	____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ22	01	X 1.01 g	____g	____g	____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ25	01	X 1.00 g	____g	____g	____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ28	01	X 1.01 g	____g	____g	____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ2A	01	X 1.01 g	____g	____g	____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ2C	01	X 1.00 g	____g	____g	____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ2E	01	X .99 g	____g	____g	____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ2F	01	X .99 g	____g	____g	____g
SOLID	TO DUE DATE:		10/12/00			

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/10/00
Time: 20:23:16

BATCH NUMBER: **0283485**

PREP DATE: 10/10/00
DUE DATE 10/12/00

INITIALS: DB

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
E0J060359	DLQ2G	01	X 1.01 g	_____g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ2H	01	X 1.00 g	_____g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ2J	01	X .99 g	_____g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ2L	01	X 1.01 g	_____g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ2N	01	X 1.01 g	_____g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J100197	DLVEG	01	X 1.00 g	_____g	_____g	_____g
SOLID	TO DUE DATE:		10/16/00			
E0J090000	DLRXHB	01	X 1.00 g	_____g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
	DLRXHC		1.03 g	_____g	_____g	_____g

LEVEL 2
BLANK AND CHECK STANDARD ON BATCH _____
MS/MSD AND PDS ON BATCH _____
CURVE PREPPED FOR HG _____
CORRECT SPIKES ADDED _____
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG_____

COMMENTS: Final Vol: 100 ml
B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
SPIKING WITNESSED BY _____

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/10/00
Time: 20:23:16

BATCH NUMBER: **0283485**

PREP DATE: 10/10/00
DUE DATE 10/12/00

INITIALS: _____

ICP ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE CD CO CR CU MO NI PB SB SE TL VX ZN

MS/MSD 1:	ICP - 1	ICP - 2	GFAA	HG	ODD
MS/MSD 2:	ICP - 1	ICP - 2	GFAA	HG	ODD
MS/MSD 3:	ICP - 1	ICP - 2	GFAA	HG	ODD
CHECK :	ICP - 1	ICP - 2	GFAA	HG	ODD
CHECK DUP:	ICP - 1	ICP - 2	GFAA	HG	ODD
STANDARD NUMBERS	_____	_____	____	____	____

STL LOS ANGELES

Précis
Metals Preparation

Batch: 0283485
The following information applies to all samples associated with the above batch number.

Prepared By: JS
Reviewed By: WT

Date/Time Initiated: 10/10/00 1 1000
Date/Time Completed: 10/10/00 1 1830

Hot Plate/Block # 1 Temp* 95 °C Thermometer # M-H-04
*Thermometer correction applied. (CF +1.0 °C)

Spike Standards for LCS and MS/MSD samples.

	Volume	Lot #	Exp. Date
1. QSPK1A	1.0 mL	QSPK1A-091200-1	08/2002
2. QSPK1B	NA mL	QSKP1B-072000-1	07/2001
3. QSPK2A	1 mL	QSPK2A 072000-1	04/2002
4. QSPK2B	1 mL	QCAL6B-112299-1	05/2001

Reagents	Volume	Lot #
HNO_3	10 mL	6623 T09A058
H_2O_2	4 mL	5240T15A01
HCl	10 mL	5587 N41A07

SOP No. CORP-IP-0002, Revision 2, Date: 7/2/99

Method 3050B

Step 1. Thoroughly mix and weigh 1.0g (±0.01g) sample.
Step 2. Add 10 mL of 1:1 HNO_3.
Step 3. Cover and heat at 95°C for 10 min.
Step 4. Cool and add 5 mL conc. HNO_3, cover and heat at 95 °C for 30 min.
Step 5. If brown fumes observed, repeat last step until no fumes are evolved.
Step 6. Reduce volume to approx. 5 mL or heat for 2 hours.
Step 7. Cool and add 2 mL of water and 3 Ml of 30% H_2O_2.
Step 8. Heat until effervescence subsides.
Step 9. Cool and add 1 mL H_2O_2 with heat effervescence is minimal.
Step 10. Reduce volume to approx. 5 mL or heat for 2 hours. — 4:30 PM
Step 11. Add 10 mL of conc. HCl and heat for 15 min.
Step 12. Cool, rinse and filter sample with DI water.
Step 13. Dilute to100 mL with DI water and mix sample.

Redigestion required - Samples/Reason: _____
Requested By: _____ Date: _____ Completed By: _____ Date: _____

Digestate Chain-of-Custody:
Relinquished By: JS Date: 10/10/00 Received By: WT Date: 10/10/00

N:\inorganics\metals\forms\Q_prep
10/06/00

001182

STL Los Angeles
Précis
CVAA Data Summary Cover Sheet

Mercury
Instrument ID: Leeman PS200 – M03
Leeman PS200 – M04

Analyst: JGA
Analytical Date: 10/12/00
Data File: HG01012A
Corr. Coeff.: 0.9999

Analysis by SOP: 7470 - 245.1 - CORP-MT-0005SA Rev 1.1 ✓
7471 - 245.5 - CORP-MT-0007SA Rev 1.1 ✓

Batch	Lot/Project	Data Upload	Review/Release	Pkg.
0283497	EOJ070299	10/14/00		~~L3~~
	EOJ040324			
	EOJ050314			L3
0283500	EOJ060329			L3
0283520	EOJ060355			L3
	EOJ060359			L3

Calibration Stds:
Preparation: Date 10/12/00 Time 1200
Calibration Stock Standard Concentration 10000 mg/L Lot# Hg-060800 Exp. Date 05/02
Intermediate Standard – 10000ug/L – requires 1000X dilution of Stock Std.
Cal Working Standard - 100ug/L - requires 100X dilution of Intermediate Std.
Std.1 - 0.2 ug/L 500X dilution of Cal Working Standard (0.2mL to 100mL)
Std.2 - 0.5 ug/L 200X dilution of Cal Working Standard (0.5mL to 100mL)
Std.3 - 1.0 ug/L 100X dilution of Cal Working Standard (1.0mL to 100mL)
Std.4 - 5.0 ug/L 20X dilution of Cal Working Standard (5.0mL to 100mL)
Std.5 - 10 ug/L 10X dilution of Cal Working Standard (10.0mL to 100mL)
Calibration Check Stds:
CRA - 0.2 ug/L - 500X dilution of Cal Working Standard (0.2mL to 100mL)
ICV Stock Standard Concentration 1000 mg/mL Lot# Hg-061300 Exp. Date 07/2001
ICV Working Standard - 500 ug/L - two dilutions of ICV Stock -first 100X then a 20X
ICV - 2.5 ug/L - 200X dilution of ICV Working Standard (0.5mL to 100mL)
CCV - 5.0 ug/L - 20X dilution of Cal Working Standard (5.0mL to 100mL)

Notes/Comments:

FURNACE DATA SHEET

File: HG01012A Element: HG__ Instrument: LEEMAN_____

Start Run Date: 10/12/00 End Run Date: 10/12/00

Correlation Coefficient: _~~1.000000~~ Slope: __0.000000 Intercept: __0.000000

0.9999 10/14/00 JR

Concentration Units: Ug/L

1 of 3

#	SAMPLE ID	Time	Dil Factor	Sample (Absorb)	Sample (Conc)	%R/R	Flag		
1	S0	14:01	1.00		0.0000				
2	S0.2	14:03	1.00		0.2000				
3	S0.5	14:05	1.00		0.5000				
4	S1	14:07	1.00		1.0000				
5	S5	14:08	1.00		5.0000				
6	S10	14:10	1.00		10.0000				
7	ICV	14:23	1.00		2.6600	106			
8	ICB 10/14/00 JR	14:25	1.00		-0.1300			ND	
9	DLT03B	14:26	1.00		-0.0740			ND	
10	DLT0EC	14:28	1.00		5.1800	104		0.863	
11	DK2CD	14:30	1.00		0.2460			0.041	
12	DK2CF	14:32	1.00		1.2500			0.209	
13	DK2CH	14:34	1.00		0.6830			0.114	
14	DK2CM	14:35	1.00		0.0360			ND	
15	DK2CQ	14:37	1.00		0.9680			0.161	
16	DLJM7	14:39	1.00		0.2280			0.038	
17	DLJM9	14:41	1.00		0.2000			0.033	
18	CCV1	14:43	1.00		5.1900	104			
19	CCB1	14:44	1.00		-0.0630			ND	
20	DLJMC	14:46	1.00		0.1780			0.030	
21	DLPFK	14:48	1.00		0.0790			ND	
22	DLPFKS	14:50	1.00		0.9880	99		0.165	
23	DLPFKD	14:52	1.00		1.1800	118		0.197	
24	DLPH4	14:54	1.00		-0.0150			ND	
25	DLPJR	14:56	1.00		0.0980			ND	
26	DLPK3	14:58	1.00		0.1460			0.024	
27	DLPK8	15:00	1.00		0.2320			0.039	
28	DLT09B	15:02	1.00		0.0380			ND	
29	CCV2	15:04	1.00		5.1700	103			
30	CCB2	15:05	1.00		-0.0700			ND	
31	DLT09C	15:07	1.00		5.1800			0.863	
32	DLPGD	15:09	1.00		0.1950			0.032	
33	DLPGDS	15:11	1.00		1.3100	112		0.218	
34	DLPGDD	15:12	1.00		1.2800	109		0.213	
35	DLPHC	15:14	1.00		0.5820			0.097	
36	DLPHE	15:16	1.00		0.2840			0.047	
37	DLPHF	15:18	1.00		0.3060			0.051	
38	DLPHL	15:20	1.00		0.0780			ND	
39	DLPHN	15:22	1.00		0.3620			0.060	
40	DLPHQ	15:24	1.00		0.3630			0.060	

Analyst: JGA_____ QC Reviewer: _____

FURNACE DATA SHEET

File: HG01012A Element: HG__ Instrument: LEEMAN_____

Start Run Date: 10/12/00 End Run Date: 10/12/00

Correlation Coefficient: _~~1.000000~~ Slope: __0.000000 Intercept: __0.000000

2 of 3

0.9999 10/14/00 JG

Concentration Units: Ug/L

#	SAMPLE ID	Time	Dil Factor	Sample (Absorb)	Sample (Conc)	%R/R	Flag		
41	CCV3	15:26	1.00		5.2100	104			
42	CCB3	15:27	1.00		-0.0690			ND	
43	DLPHX	15:29	1.00		-0.0940			↓	
44	DLPJ3	15:31	1.00		0.6810			0.114	
45	DLPJ5	15:33	1.00		0.6310			0.105	
46	DLPJ8	15:35	1.00		0.1380			0.023	
47	DLPJA	15:37	1.00		0.3640			0.061	
48	DLPJC	15:39	1.00		0.2860			0.048	
49	DLPJF	15:41	1.00		0.3970			0.066	
50	DLPJJ	15:43	1.00		0.3660			0.061	
51	DLPJL	15:45	1.00		0.0340			ND	
52	CCV4	15:47	1.00		5.1800	104			
53	CCB4	15:48	1.00		-0.0710			ND	
54	DLPJN	15:50	1.00		0.2430			0.040	
55	DLPJT	15:52	1.00		0.1700			0.028	
56	DLPJV	15:54	1.00		0.4250			0.071	
57	DLT31B	15:56	1.00		-0.0580			ND	
58	DLT31C	15:58	1.00		5.0700	101		0.845	
59	DLPWC	16:00	1.00		0.1200			~~ND~~ 0.020	
60	DLPWCS	16:02	1.00		0.9880	87		0.165	
61	DLPWCD	16:04	1.00		1.1200	100		0.187	
62	DLPWK	16:05	1.00		0.0930			ND	
63	DLPWP	16:07	1.00		0.1250			0.021	
64	CCV5	16:09	1.00		5.1900	104			
65	CCB5	16:11	1.00		-0.0710			ND	
66	DLPX2	16:14	1.00		0.0220			ND	
67	DLPX4	16:15	1.00		0.0950			↓	
68	DLQ12	16:17	1.00		0.3070			0.051	
69	DLQ1X	16:20	1.00		0.2260			0.038	
70	DLQ22	16:21	1.00		-0.0810			ND	
71	DLQ25	16:24	1.00		0.2260			0.038	
72	DLQ28	16:26	1.00		0.0300			ND	
73	DLQ2A	16:28	1.00		0.0940			ND	
74	DLQ2C	16:29	1.00		0.7800			0.130	
75	CCV6	16:31	1.00		5.1700	103			
76	CCB6	16:33	1.00		-0.1950			ND	
77	DLQ2E	16:35	1.00		0.2040			0.034	
78	DLQ2F	16:37	1.00		0.0770			ND	
79	DLQ2G	16:39	1.00		0.1020			ND	
80	DLQ2H	16:41	1.00		-0.0050			↓	

JG 10/14/00

Analyst: JGA_____ QC Reviewer: _____

001185

BOE-C6-0176641

FURNACE DATA SHEET

File: HG01012A Element: HG__ Instrument: LEEMAN_____

Start Run Date: 10/12/00 End Run Date: 10/12/00

Correlation Coefficient: _~~1.000000~~ Slope: __0.000000 Intercept: __0.000000

0.9999 10/14/00 JGA

Concentration Units: Ug/L

3 of 3

#	SAMPLE ID	Time	Dil Factor	Sample (Absorb)	Sample (Conc)	%R/R	Flag		
81	DLQ2J	16:43	1.00		0.3490			0058	
82	DLQ2L	16:45	1.00		0.1760			0029	
83	DLQ2N	16:47	1.00		0.4250			0071	
84	CCV7	16:49	1.00		5.1600	7 Ref			
85	CCB7	16:51	1.00		-0.2110				
86	CCV7	17:48	1.00		5.2900	106			
87	CCB7	17:50	1.00		-0.1030			ND	
88									
89									
90									
91									
92									
93									
94									
95									
96									
97									
98									
99									
100									

Analyst: JGA_____ QC Reviewer: _____

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 0 14:01:25 12 Oct 2000 HG

00118

Hg .000 ppb 1375

```
*** Standard: 2 Rep: 1              Seq:  1       14:03:18 12 Oct 2000 HG

Hg    .200    ppb      14408

*** Standard: 3 Rep: 1              Seq:  2       14:05:16 12 Oct 2000 HG

Hg    .500    ppb      26655

*** Standard: 4 Rep: 1              Seq:  3       14:07:05 12 Oct 2000 HG

Hg    1.00    ppb      49733

*** Standard: 5 Rep: 1              Seq:  4       14:08:58 12 Oct 2000 HG

Hg    5.00    ppb      249073

*** Standard: 6 Rep: 1              Seq:  5       14:10:51 12 Oct 2000 HG

Hg    10.0    ppb      485621
```

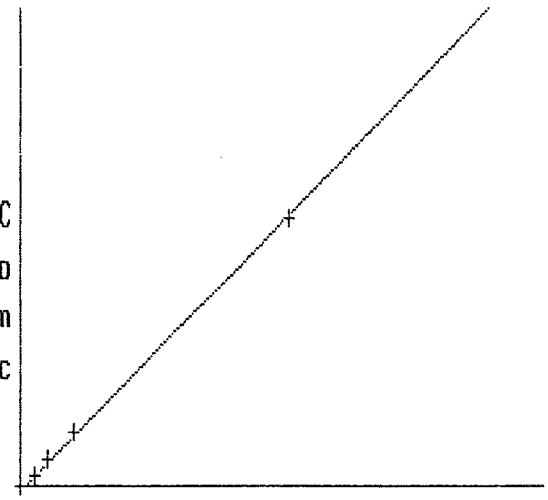
```
RunProt: HG-A        Err: Analyzer needs maintenance        Mode:    Analyze
RunFold: HG01012A Seq: 6    Batch:                          RunPrep: prp7470
                 Prnt: Offline                    Pump: On
                 Rev: 4.2    14:14:08 12 Oct 2000 Xmit: Off Gas:     0.70 LPM
  Idle None      Macro CAL161                     User: JGA          A/S: On
CALIBRATION: Line | proto: HG-A
```

001188

	ng Conc.	Calc.	Dev.	Accepted ->linear	
S1	.000	-.033	-.033	Quadratic	
S2	.200	.236	.036	Wtdlinear	
S3	.500	.489	-.011		C
S4	1.00	.965	-.035	Accept	o
S5	5.00	5.08	.080		n
S6	10.0	9.96	-.038		c

A .0000000 r .999928

B 2.06403e-5 C -6.11186e-2



Relative Absorbance

	Mean			
S1	1375	0	SD	1375
S2	14408	0	%RSD	14408
S3	26655	0	%RSD	26655
S4	49733	0	%RSD	49733
S5	249073	0	%RSD	249073
S6	485621	0	%RSD	485621

New cal coefficients stored

RunProt: HG-A Err: hardware inoperable Mode: Analyze
RunFold: HG01012A Seq: 6 Batch: RunPrep: prp7470
Prnt: R/T On Pump: On
Rev: 4.2 14:15:40 12 Oct 2000 Xmit: Off Gas: 0.70 LPM
Idle None User: JGA A/S: On

001189

*** Sample ID: ICB Seq: 7 14:25:09 12 Oct 2000 HG

Hg -.130 ppb .000 -.130

*** Sample ID: DLT03B Seq: 8 14:26:52 12 Oct 2000 HG

Hg -.074 ppb .000 -.074

*** Sample ID: DLT0EC Seq: 9 14:28:40 12 Oct 2000 HG

Hg 5.18 ppb .000 5.18

*** Sample ID: DK2CD Seq: 10 14:30:33 12 Oct 2000 HG

Hg .246 ppb .000 .246

*** Sample ID: DK2CF Seq: 11 14:32:18 12 Oct 2000 HG

Hg 1.25 ppb .000 1.25

*** Sample ID: DK2CH Seq: 12 14:34:04 12 Oct 2000 HG

Hg .683 ppb .000 .683

*** Sample ID: DK2CM Seq: 13 14:35:49 12 Oct 2000 HG

Hg .036 ppb .000 .036

*** Sample ID: DK2CQ Seq: 14 14:37:33 12 Oct 2000 HG

Hg .968 ppb .000 .968

*** Sample ID: DLJM7 Seq: 15 14:39:23 12 Oct 2000 HG

Hg .228 ppb .000 .228

*** Sample ID: DLJM9 Seq: 16 14:41:09 12 Oct 2000 HG

Hg .200 ppb .000 .200

*** Sample ID: CCV1 Seq: 17 14:43:05 12 Oct 2000 HG

Hg 5.19 ppb .000 5.19

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: CCB1 Seq: 18 14:44:57 12 Oct 2000 HG

001190

Hg -.063 ppb .000 -.063

*** Sample ID: DLJMC Seq: 19 14:46:44 12 Oct 2000 HG

Hg .178 ppb .000 .178

*** Sample ID: DLPFK Seq: 20 14:48:40 12 Oct 2000 HG

Hg .079 ppb .000 .079

*** Sample ID: DLPFKS Seq: 21 14:50:39 12 Oct 2000 HG

Hg .988 ppb .000 .988

*** Sample ID: DLPFKD Seq: 22 14:52:27 12 Oct 2000 HG

Hg 1.18 ppb .000 1.18

*** Sample ID: DLPH4 Seq: 23 14:54:14 12 Oct 2000 HG

Hg -.015 ppb .000 -.015

*** Sample ID: DLPJR Seq: 24 14:56:23 12 Oct 2000 HG

Hg .098 ppb .000 .098

*** Sample ID: DLPK3 Seq: 25 14:58:41 12 Oct 2000 HG

Hg .146 ppb .000 .146

*** Sample ID: DLPK8 Seq: 26 15:00:34 12 Oct 2000 HG

Hg .232 ppb .000 .232

*** Sample ID: DLT09B Seq: 27 15:02:20 12 Oct 2000 HG

Hg .038 ppb .000 .038

*** Sample ID: CCV2 Seq: 28 15:04:05 12 Oct 2000 HG

Hg 5.17 ppb .000 5.17

*** Sample ID: CCB2 Seq: 29 15:05:49 12 Oct 2000 HG

Hg -.070 ppb .000 -.070

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: DLT09C Seq: 30 15:07:39 12 Oct 2000 HG

Hg 5.18 ppb .000 5.18

*** Sample ID: DLPGD Seq: 31 15:09:23 12 Oct 2000 HG

Hg .195 ppb .000 .195

*** Sample ID: DLPGDS Seq: 32 15:11:09 12 Oct 2000 HG

Hg 1.31 ppb .000 1.31

*** Sample ID: DLPGDD Seq: 33 15:12:55 12 Oct 2000 HG

Hg 1.28 ppb .000 1.28

*** Sample ID: DLPHC Seq: 34 15:14:49 12 Oct 2000 HG

Hg .582 ppb .000 .582

*** Sample ID: DLPHE Seq: 35 15:16:44 12 Oct 2000 HG

Hg .284 ppb .000 .284

*** Sample ID: DLPHF Seq: 36 15:18:28 12 Oct 2000 HG

Hg .306 ppb .000 .306

*** Sample ID: DLPHL Seq: 37 15:20:25 12 Oct 2000 HG

Hg .078 ppb .000 .078

*** Sample ID: DLPHN Seq: 38 15:22:26 12 Oct 2000 HG

Hg .362 ppb .000 .362

*** Sample ID: DLPHQ Seq: 39 15:24:12 12 Oct 2000 HG

Hg .363 ppb .000 .363

*** Sample ID: CCV3 Seq: 40 15:26:09 12 Oct 2000 HG

Hg 5.21 ppb .000 5.21

*** Sample ID: CCB3 Seq: 41 15:27:55 12 Oct 2000 HG

Hg -.069 ppb .000 -.069

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: DLPHX Seq: 42 15:29:45 12 Oct 2000 HG

001192

Hg -.094 ppb .000 -.094

*** Sample ID: DLPJ3 Seq: 43 15:31:31 12 Oct 2000 HG

Hg .681 ppb .000 .681

*** Sample ID: DLPJ5 Seq: 44 15:33:20 12 Oct 2000 HG

Hg .631 ppb .000 .631

*** Sample ID: DLPJ8 Seq: 45 15:35:26 12 Oct 2000 HG

Hg .138 ppb .000 .138

*** Sample ID: DLPJA Seq: 46 15:37:14 12 Oct 2000 HG

Hg .364 ppb .000 .364

*** Sample ID: DLPJC Seq: 47 15:39:23 12 Oct 2000 HG

Hg .286 ppb .000 .286

*** Sample ID: DLPJF Seq: 48 15:41:19 12 Oct 2000 HG

Hg .397 ppb .000 .397

*** Sample ID: DLPJJ Seq: 49 15:43:11 12 Oct 2000 HG

Hg .366 ppb .000 .366

*** Sample ID: DLPJL Seq: 50 15:45:04 12 Oct 2000 HG

Hg .034 ppb .000 .034

*** Sample ID: CCV4 Seq: 51 15:47:05 12 Oct 2000 HG

Hg 5.18 ppb .000 5.18

*** Sample ID: CCB4 Seq: 52 15:48:58 12 Oct 2000 HG

Hg -.071 ppb .000 -.071

*** Sample ID: DLPJN Seq: 53 15:50:57 12 Oct 2000 HG

Hg .243 ppb .000 .243

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: DLPJT Seq: 54 15:52:46 12 Oct 2000 HG

Hg .170 ppb .000 .170

*** Sample ID: DLPJV Seq: 55 15:54:34 12 Oct 2000 HG

Hg .425 ppb .000 .425

*** Sample ID: DLT31B Seq: 56 15:56:31 12 Oct 2000 HG

Hg -.058 ppb .000 -.058

*** Sample ID: DLT31C Seq: 57 15:58:19 12 Oct 2000 HG

Hg 5.07 ppb .000 5.07

*** Sample ID: DLPWC Seq: 58 16:00:06 12 Oct 2000 HG

Hg .120 ppb .000 .120

*** Sample ID: DLPWCS Seq: 59 16:02:14 12 Oct 2000 HG

Hg .988 ppb .000 .988

*** Sample ID: DLPWCD Seq: 60 16:04:06 12 Oct 2000 HG

Hg 1.12 ppb .000 1.12

*** Sample ID: DLPWK Seq: 61 16:05:55 12 Oct 2000 HG

Hg .093 ppb .000 .093

*** Sample ID: DLPWP Seq: 62 16:07:55 12 Oct 2000 HG

Hg .125 ppb .000 .125

*** Sample ID: CCV5 Seq: 63 16:09:49 12 Oct 2000 HG

Hg 5.19 ppb .000 5.19

*** Sample ID: CCB5 Seq: 64 16:11:49 12 Oct 2000 HG

Hg -.071 ppb .000 -.071

*** Sample ID: DLPX2 Seq: 65 16:14:01 12 Oct 2000 HG

Hg .022 ppb .000 .022

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: DLPX4 Seq: 66 16:15:50 12 Oct 2000 HG

Hg .095 ppb .000 .095

*** Sample ID: DLQ12 Seq: 67 16:17:43 12 Oct 2000 HG

Hg .307 ppb .000 .307

*** Sample ID: DLQ1X Seq: 68 16:20:05 12 Oct 2000 HG

Hg .226 ppb .000 .226

*** Sample ID: DLQ22 Seq: 69 16:21:54 12 Oct 2000 HG

Hg -.081 ppb .000 -.081

*** Sample ID: DLQ25 Seq: 70 16:24:15 12 Oct 2000 HG

Hg .226 ppb .000 .226

*** Sample ID: DLQ28 Seq: 71 16:26:10 12 Oct 2000 HG

Hg .030 ppb .000 .030

*** Sample ID: DLQ2A Seq: 72 16:28:03 12 Oct 2000 HG

Hg .094 ppb .000 .094

*** Sample ID: DLQ2C Seq: 73 16:29:54 12 Oct 2000 HG

Hg .780 ppb .000 .780

*** Sample ID: CCV6 Seq: 74 16:31:44 12 Oct 2000 HG

Hg 5.17 ppb .000 5.17

*** Sample ID: CCB6 Seq: 75 16:33:45 12 Oct 2000 HG

Hg -.195 ppb .000 -.195

*** Sample ID: DLQ2E Seq: 76 16:35:58 12 Oct 2000 HG

Hg .204 ppb .000 .204

*** Sample ID: DLQ2F Seq: 77 16:37:51 12 Oct 2000 HG

Hg .077 ppb .000 .077

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: DLQ2G Seq: 78 16:39:42 12 Oct 2000 HG

Hg .102 ppb .000 .102

*** Sample ID: DLQ2H Seq: 79 16:41:35 12 Oct 2000 HG

Hg -.005 ppb .000 -.005

*** Sample ID: DLQ2J Seq: 80 16:43:26 12 Oct 2000 HG

Hg .349 ppb .000 .349

*** Sample ID: DLQ2L Seq: 81 16:45:26 12 Oct 2000 HG

Hg .176 ppb .000 .176

*** Sample ID: DLQ2N Seq: 82 16:47:22 12 Oct 2000 HG

Hg .425 ppb .000 .425

*** Sample ID: CCV7 Seq: 83 16:49:24 12 Oct 2000 HG

Hg 5.16 ppb .000 5.16

*** Sample ID: CCB7 Seq: 84 16:51:16 12 Oct 2000 HG

Hg -.211 ppb .000 -.211

*** Sample ID: CCV7 Seq: 85 17:48:56 12 Oct 2000 HG

Hg 5.29 ppb .000 5.29

*** Sample ID: CCB7 Seq: 86 17:50:50 12 Oct 2000 HG

Hg -.103 ppb .000 -.103

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/09/00
Time: 15:21:06

BATCH NUMBER: **0283497**

PREP DATE: 10/10/00
DUE DATE 9/21/00

INITIALS: ICT

Hg ICT 10/09/00

LOT NUMBER	WORK ORDER	QC	~~ICP~~/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
E0I070299	DK2CD	01	.60 g	X ____g	____g	____g
SOLID	TO DUE DATE:		9/21/00			
E0I070299	DK2CF	01	.59 g	X ____g	____g	____g
SOLID	TO DUE DATE:		9/21/00			
E0I070299	DK2CH	01	.61 g	X ____g	____g	____g
SOLID	TO DUE DATE:		9/21/00			
E0I070299	DK2CM	01	.61 g	X ____g	____g	____g
SOLID	TO DUE DATE:		9/21/00			
E0I070299	DK2CQ	01	.60 g	X ____g	____g	____g
SOLID	TO DUE DATE:		9/21/00			
E0J040324	DLJM7	01	.61 g	X ____g	____g	____g
SOLID	TO DUE DATE:		10/11/00			
Broke E0J040324	~~DLJM9~~	01	.59 g	X ____g	____g	____g
SOLID	TO DUE DATE:		10/11/00			
E0J040324	DLJMC	01	.59 g	X ____g	____g	____g
SOLID	TO DUE DATE:		10/11/00			
E0J050314	DLPFK	01	.60 g	X ____g	____g	____g
SOLID	TO DUE DATE:		10/11/00			
	DLPFKS		.61 g	____g	____g	____g
	DLPFKD		.60 g	____g	____g	____g
E0J050314	DLPH4	01	.59 g	X ____g	____g	____g
SOLID	TO DUE DATE:		10/11/00			
E0J050314	DLPJR	01	.61 g	X ____g	____g	____g
SOLID	TO DUE DATE:		10/11/00			
E0J050314	DLPK3	01	.59 g	X ____g	____g	____g
SOLID	TO DUE DATE:		10/11/00			
E0J050314	DLPK8	01	.61 g	X ____g	____g	____g
SOLID	TO DUE DATE:		10/11/00			
E0J090000	DLT0EB	01	.60 g	X ____g	____g	____g
SOLID	DUE DATE:		0/00/00			
	DLT0EC		.62 g	____g	____g	____g

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/09/00
Time: 15:21:06

BATCH NUMBER: **0283497**

PREP DATE: 10/10/00
DUE DATE 9/21/00

INITIALS: Kt

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH _____
MS/MSD AND PDS ON BATCH _____
CURVE PREPPED FOR HG _____
CORRECT SPIKES ADDED _____
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG _____

COMMENTS: F.V. = 100 ML

B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS

SPIKING WITNESSED BY _____

ICP ELEMENTS WITHIN THE BATCH:

MS/MSD 1:	ICP - 1	ICP - 2	GFAA	HG	ODD
MS/MSD 2:	ICP - 1	ICP - 2	GFAA	HG	ODD
MS/MSD 3:	ICP - 1	ICP - 2	GFAA	HG	ODD
CHECK :	ICP - 1	ICP - 2	GFAA	HG	ODD
CHECK DUP:	ICP - 1	ICP - 2	GFAA	HG	ODD
STANDARD NUMBERS	_____	_____	____	___	___

STL LOS ANGELES

Précis
Metals Preparation

Batch: 1283497
The following information applies to all samples associated with the above batch number.

Prepared By: [signature]
Reviewed By: [signature]

Date/Time Initiated: 10/10/00 1200
Date/Time Completed: 1 1230

Water Bath # 6 Temp* 95 °C Thermometer # M-H-01
*Thermometer correction applied. (CF + 2.0°C)

Spike Standards for LCS, MS/MSD and ICV samples (*Volume of Working standard).

	*Volume	Lot #	Exp. Date
1. Hg Cal (MS)	1 mL	Hg-060800	05/2002
2. Hg Cal (LCS)	5 mL	Hg-060800	05/2002
3. Hg ICV	0.5 mL	Hg-061300	07/2001

Preparation

Reagents	Volume	Lot #
*HNO_3	1.25 mL	6623 T09A058
*HCl	3.75 mL	5587 N41A07
$KMnO_4$	15 mL	995929
$K_2S_2O_8$	8.0 mL	995705

* 3 HCl : 1HNO_3 as Aqua Regia

Analysis

Reagents	Volume	Lot#
NH_2OH-HCl+ NaCl	6.0 mL	995700+ 995717
$SnCl_2$ + HCl	Controlled by instrument	000152+ 419100

SOP No. CORP-IP-0007SA, Revision 1.1, Date: 7/10/96

Method 7471A/245.5
Sample size 0.6 g (well mixed)

Step 1. **Standards**-Add 5 mL of aqua regia and mix.
Samples-Add 5 mL of DI water and 5 mL of aqua regia and mix.
Step 2. Heat for 2 min. at 95 °C ±5 °C.
Step 3. Cool
Step 4. Add 50 mL of DI water and mix.
Step 3. Add 15 mL of $KMnO_4$ and mix.
Step 4. Add 8 mL of $K_2S_2O_8$ and mix
Step 5. Heat at 95 °C ±5 °C for 30 min.
Step 6. Cool
Step 7. Add 6 mL of NH_2OH-HCl and mix.
Step 8. **Standards**-Add 50 mL of DI water and mix.
Samples- Add 55 mL of DI water and mix.

Standards to be prepared with each batch
To each standard add DI water for a total vol. of 10 mL

Standard	Concentration (mg/L)
Std. 0/ICB/CCB	0
Std. 1	0.0002
Std. 2	0.0005
Std. 3	0.001
Std. 4/CCV	0.005
Std. 5	0.010
ICV	0.0025

Redigestion required - Samples/Reason: _____
Requested By: _____ Date: _____ Completed By: _____ Date: _____

Digestate Chain-of-Custody:
Relinquished By: [signature] Date: 10/12/00 Received By: [signature] Date: 10/12/00

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08/19/00

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/09/00
Time: 15:21:23

BATCH NUMBER: **0283500**

PREP DATE: 10/10/00
DUE DATE 10/12/00

INITIALS: Thy. 10/9.

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
E0J060329	DLPGD	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
	DLPGDS		_____g	0.60 g	_____g	_____g
	DLPGDD		_____g	0.60 g	_____g	_____g
E0J060329	DLPHC	01	_____g	X 0.61 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060329	DLPHE	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060329	DLPHF	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060329	DLPHL	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060329	DLPHN	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060329	DLPHQ	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060329	DLPHX	01	_____g	X 0.59 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060329	DLPJ3	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060329	DLPJ5	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060329	DLPJ8	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060329	DLPJA	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060329	DLPJC	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060329	DLPJF	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/09/00
Time: 15:21:23

BATCH NUMBER: **0283500**

PREP DATE: 10/10/00
DUE DATE 10/12/00

INITIALS: TM 10/9/00

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
E0J060329	DLPJJ	01	_____g	X 0.60 g	_____g	_____g
SOLID	**TO** DUE DATE:		10/12/00			
E0J060329	DLPJL	01	_____g	X 0.60 g	_____g	_____g
SOLID	**TO** DUE DATE:		10/12/00			
E0J060329	DLPJN	01	_____g	X 0.60 g	_____g	_____g
SOLID	**TO** DUE DATE:		10/12/00			
E0J060329	DLPJT	01	_____g	X 0.60 g	_____g	_____g
SOLID	**TO** DUE DATE:		10/12/00			
E0J060329	DLPJV	01	_____g	X 0.60 g	_____g	_____g
SOLID	**TO** DUE DATE:		10/12/00			
E0J090000	DLT09B	01	_____g	X 0.60 g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
	DLT09C		_____g	0.60 g	_____g	_____g

LEVEL 2
BLANK AND CHECK STANDARD ON BATCH _____
MS/MSD AND PDS ON BATCH _____
CURVE PREPPED FOR HG _____
CORRECT SPIKES ADDED _____
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG_____

COMMENTS: F.V. = 100 ML

B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS

SPIKING WITNESSED BY _____

001201

BOE-C6-0176657

STL LOS ANGELES

Précis

Metals Preparation

Batch: 0283500

The following information applies to all samples associated with the above batch number.

Prepared By: [signature]
Reviewed By: [signature]

Date/Time Initiated: 10/12/00 1300
Date/Time Completed: 1 1330

Water Bath # 6 Temp* 95 °C Thermometer # M-H-01
*Thermometer correction applied. (CF + 2.0°C)

Spike Standards for LCS, MS/MSD and ICV samples (*Volume of Working standard).

	*Volume	Lot #	Exp. Date
1. Hg Cal (MS)	1 mL	Hg-060800	05/2002
2. Hg Cal (LCS)	5 mL	Hg-060800	05/2002
3. Hg ICV	0.5 mL	Hg-061300	07/2001

Preparation

Reagents	Volume	Lot #
*HNO_3	1.25 mL	6623 T09A058
*HCl	3.75 mL	5587 N41A07
$KMnO_4$	15 mL	995929
$K_2S_2O_8$	8.0 mL	995705

* 3 HCl : 1HNO_3 as Aqua Regia

Analysis

Reagents	Volume	Lot#
NH_2OH-HCl+ NaCl	6.0 mL	995700+ 995717
$SnCl_2$ + HCl	Controlled by instrument	000152+ 419100

SOP No. CORP-IP-0007SA, Revision 1.1, Date: 7/10/96

Method 7471A/245.5
Sample size 0.6 g (well mixed)

Step 1. **Standards**-Add 5 mL of aqua regia and mix.
Samples-Add 5 mL of DI water and 5 mL of aqua regia and mix.
Step 2. Heat for 2 min. at 95 °C ±5 °C.
Step 3. Cool
Step 4. Add 50 mL of DI water and mix.
Step 3. Add 15 mL of $KMnO_4$ and mix.
Step 4. Add 8 mL of $K_2S_2O_8$ and mix
Step 5. Heat at 95 °C ±5 °C for 30 min.
Step 6. Cool
Step 7. Add 6 mL of NH_2OH-HCl and mix.
Step 8. **Standards**-Add 50 mL of DI water and mix.
Samples- Add 55 mL of DI water and mix.

Standards to be prepared with each batch
To each standard add DI water for a total vol. of 10 mL

Standard	Concentration (mg/L)
Std. 0/ICB/CCB	0
Std. 1	0.0002
Std. 2	0.0005
Std. 3	0.001
Std. 4/CCV	0.005
Std. 5	0.010
ICV	0.0025

Redigestion required - Samples/Reason: _____
Requested By: _____ Date: _____ Completed By: _____ Date: _____

Digestate Chain-of-Custody:
Relinquished By: [signature] Date: 10/12/00 Received By: [signature] Date: 10/12/00

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08/19/00

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/09/00
Time: 15:47:05

BATCH NUMBER: **0283520**

PREP DATE: 10/10/00
DUE DATE 10/12/00

INITIALS: DB

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
E0J060355	DLPWC	01	_____g	X 0.59 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
	DLPWCS		_____g	0.61 g	_____g	_____g
	DLPWCD		_____g	0.59 g	_____g	_____g
E0J060355	DLPWK	01	_____g	X 0.61 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060355	DLPWP	01	_____g	X 0.59 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060355	DLPX2	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060355	DLPX4	01	_____g	X 0.59 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ12	01	_____g	X 0.59 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ1X	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ22	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ25	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ28	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ2A	01	_____g	X 0.59 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ2C	01	_____g	X 0.59 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ2E	01	_____g	X 0.59 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ2F	01	_____g	X 0.59 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/09/00
Time: 15:47:05

BATCH NUMBER: **0283520**

PREP DATE: 10/10/00
DUE DATE 10/12/00

INITIALS: DB

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
E0J060359	DLQ2G	01	_____g	X 0.61 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ2H	01	_____g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ2J	01	_____g	X 0.61 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ2L	01	_____g	X 0.61 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J060359	DLQ2N	01	_____g	X 0.61 g	_____g	_____g
SOLID	TO DUE DATE:		10/12/00			
E0J090000	DLT31B	01	_____g	X 0.60 g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
	DLT31C		_____g	0.62 g	_____g	_____g

LEVEL 2
BLANK AND CHECK STANDARD ON BATCH _____
MS/MSD AND PDS ON BATCH _____
CURVE PREPPED FOR HG _____
CORRECT SPIKES ADDED _____
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG _____

COMMENTS: F.V. = 100 ML

B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS

SPIKING WITNESSED BY _____

STL LOS ANGELES

Précis
Metals Preparation

Batch: 0283520
The following information applies to all samples associated with the above batch number.

Prepared By: [signature]
Reviewed By: [signature]

Date/Time Initiated: 10/10/001 1330
Date/Time Completed: 10/1 1400

Water Bath # 6 Temp* 95 °C Thermometer # M-H-01
*Thermometer correction applied. (CF + 2.0°C)

Spike Standards for LCS, MS/MSD and ICV samples (*Volume of Working standard).

	*Volume	Lot #	Exp. Date
1. Hg Cal (MS)	1 mL	Hg-060800	05/2002
2. Hg Cal (LCS)	5 mL	Hg-060800	05/2002
3. Hg ICV	0.5 mL	Hg-061300	07/2001

Preparation

Reagents	Volume	Lot #
*HNO_3	1.25 mL	6623 T09A058
*HCl	3.75 mL	5587 N41A07
$KMnO_4$	15 mL	995929
$K_2S_2O_8$	8.0 mL	995705

* 3 HCl : 1HNO_3 as Aqua Regia

Analysis

Reagents	Volume	Lot#
NH_2OH-HCl+	6.0 mL	995700+
NaCl		995717
$SnCl_2$ +	Controlled by	000152+
HCl	instrument	419100

SOP No. CORP-IP-0007SA, Revision 1.1, Date: 7/10/96

Method 7471A/245.5
Sample size 0.6 g (well mixed)

Step 1. **Standards**-Add 5 mL of aqua regia and mix.
Samples-Add 5 mL of DI water and 5 mL of aqua regia and mix.
Step 2. Heat for 2 min. at 95 °C ±5 °C.
Step 3. Cool
Step 4. Add 50 mL of DI water and mix.
Step 3. Add 15 mL of $KMnO_4$ and mix.
Step 4. Add 8 mL of $K_2S_2O_8$ and mix
Step 5. Heat at 95 °C ±5 °C for 30 min.
Step 6. Cool
Step 7. Add 6 mL of NH_2OH-HCl and mix.
Step 8. **Standards**-Add 50 mL of DI water and mix.
Samples- Add 55 mL of DI water and mix.

Standards to be prepared with each batch
To each standard add DI water for a total vol. of 10 mL

Standard	Concentration (mg/L)
Std. 0/ICB/CCB	0
Std. 1	0.0002
Std. 2	0.0005
Std. 3	0.001
Std. 4/CCV	0.005
Std. 5	0.010
ICV	0.0025

Redigestion required - Samples/Reason: _____
Requested By: _____ Date: _____ Completed By: _____ Date: _____

Digestate Chain-of-Custody:
Relinquished By: [signature] Date: 10/10/00 Received By: [signature] Date: 10/12/00

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