

file:///c:/tjadata/temp/a042412.TXT

#1	6.6766	k.18005	.23253	1.1617	-.00054	.00233	k.27606
#2	6.6310	k.17530	.22862	1.1542	-.00055	.00206	k.27284
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	35.159	1.6034	.47234	k1.7007	S780.99	.03215	k.25720
SDev	.234	.0086	.00316	.0087	4.50	.00016	.00091
%RSD	.66646	.53741	.66874	.51265	.57626	.48995	.35501
#1	35.324	1.6095	.47457	k1.7068	S784.18	.03226	k.25784
#2	34.993	1.5973	.47010	k1.6945	S777.81	.03204	k.25655
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	k-.72042	24.155	26.055	.20135	1.0952	1.1006	11.518
SDev	.01058	.134	.144	.00178	.0107	.0293	.007
%RSD	1.4679	.55573	.55357	.88472	.97811	2.6603	.05725
#1	k-.72790	24.250	26.157	.20261	1.1028	1.1213	11.513
#2	k-.71294	24.061	25.953	.20009	1.0876	1.0799	11.522
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.01120	17.559	16.654	.63313	k-.18481	.21362	.52274
SDev	.00045	.091	.048	.00212	.00762	.00267	.00285
%RSD	4.0493	.51813	.28978	.33489	4.1237	1.2490	.54438
#1	-.01152	17.494	16.688	.63463	k-.19019	.21551	.52475
#2	-.01088	17.623	16.620	.63163	k-.17942	.21174	.52073
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	.30704	k2.2812	k.34782	k.21188	k-.18512	k-.98807	
SDev	.00188	.0135	.00148	.00211	.00705	.01234	
%RSD	.61199	.59042	.42453	.99486	3.8096	1.2486	
#1	.30836	k2.2907	k.34678	k.21337	k-.19010	k-.99680	
#2	.30571	k2.2716	k.34887	k.21039	k-.18013	k-.97935	

Analysis Report

04/24/12 10:52:19 AM

page 17

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	37494	--	--	--	--	--	--
SDev	185.9691	--	--	--	--	--	--
%RSD	.4959903	--	--	--	--	--	--
#1	37363	--	--	--	--	--	--
#2	37626	--	--	--	--	--	--

Method: 20076010 Sample Name: PDS 600-53841-c-5-d Operator: DCL

Run Time: 04/24/12 10:52:22

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

file:///c:/tjadata/temp/a042412.TXT

Avge	119.52	.90957	.98384	1.6828	.40734	.98197	.39077
SDev	1.09	.00286	.00705	.0149	.00250	.00724	.00248
%RSD	.91607	.31424	.71702	.88744	.61476	.73737	.63493
#1	120.29	.91159	.98883	1.6933	.40911	.98709	.39252
#2	118.74	.90755	.97885	1.6722	.40557	.97685	.38901
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2117.2	.89829	.84456	.98015	102.53	1.1520	.91153
SDev	8.0	.00541	.00596	.00905	.53	.0121	.00538
%RSD	.37932	.60255	.70592	.92328	.52169	1.0464	.59045
#1	2122.9	.90212	.84878	.98654	102.91	1.1605	.91533
#2	2111.5	.89446	.84034	.97375	102.15	1.1435	.90772
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.86103	34.971	7.3180	.87277	.89303	28.915	17.342
SDev	.00720	.203	.0463	.00380	.00515	.289	.145
%RSD	.83590	.57968	.63215	.43528	.57618	1.0011	.83610
#1	.86612	35.114	7.3507	.87546	.89667	29.120	17.444
#2	.85594	34.828	7.2853	.87009	.88939	28.710	17.239
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49209	15.063	17.278	10.178	.86396	.88605	1.0751
SDev	.00285	.056	.173	.080	.00609	.00509	.0083
%RSD	.57946	.37355	.99888	.78705	.70465	.57410	.77242
#1	.49411	15.103	17.400	10.235	.86826	.88965	1.0809
#2	.49008	15.023	17.156	10.122	.85965	.88245	1.0692
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.1438	1.2563	.88315	.92572	.83064	.87622	
SDev	.0070	.0077	.00750	.00432	.01187	.00486	
%RSD	.61332	.61491	.84906	.46710	1.4289	.55483	

Analysis Report

04/24/12 10:56:12 AM

page 18

#1	1.1488	1.2617	.88846	.92877	.83904	.87966	
#2	1.1389	1.2508	.87785	.92266	.82225	.87278	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39556	--	--	--	--	--	--
SDev	323.8549	--	--	--	--	--	--
%RSD	.8187251	--	--	--	--	--	--
#1	39327	--	--	--	--	--	--
#2	39785	--	--	--	--	--	--

Method: 20076010 Sample Name: SD 600-53841-c-5-d@5 Operator: DCL  
Run Time: 04/24/12 10:56:16  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

file:///c:/tjadata/temp/a042412.TXT

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.012	.00732	.01779	.18421	.00088	.01557	.00063
SDev	.077	.00150	.00048	.00044	.00003	.00112	.00007
%RSD	.30685	20.433	2.7062	.24134	2.8966	7.1917	10.714

#1	25.067	.00838	.01813	.18452	.00090	.01636	.00058
#2	24.958	.00627	.01745	.18389	.00086	.01478	.00068

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	873.43	.02137	.01071	.01039	23.133	.02475	.01945
SDev	1.97	.00008	.00033	.00011	.029	.00008	.00182
%RSD	.22529	.36168	3.0897	1.0682	.12746	.30595	9.3410

#1	874.83	.02142	.01048	.01047	23.153	.02480	.02074
#2	872.04	.02131	.01094	.01032	23.112	.02469	.01817

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00047	6.6823	1.6011	.00218	.03572	2.4972	3.7535
SDev	.00149	.0135	.0044	.00060	.00033	.0023	.0142
%RSD	316.49	.20136	.27218	27.476	.91875	.09331	.37882

#1	-.00152	6.6918	1.6042	.00261	.03595	2.4989	3.7635
#2	.00058	6.6728	1.5980	.00176	.03549	2.4956	3.7434

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00087	.63707	.87198	2.0084	-.00287	.01041	.04749
SDev	.00041	.10226	.00169	.0034	.00301	.00162	.00003
%RSD	47.429	16.052	.19318	.16707	104.77	15.577	.06726

#1	-.00116	.56476	.87317	2.0107	-.00500	.00927	.04747
#2	-.00058	.70938	.87079	2.0060	-.00074	.01156	.04751

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
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Analysis Report

04/24/12 11:00:11 AM

page 19

Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.07039	.08015	.01807	.02015	-.00247	.00053	
SDev	.00036	.00031	.00069	.00238	.00083	.00265	
%RSD	.51797	.39025	3.8120	11.820	33.609	501.71	

#1	.07065	.08037	.01856	.02183	-.00188	-.00135	
#2	.07014	.07993	.01758	.01846	-.00306	.00240	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38462	--	--	--	--	--	--
SDev	47.37616	--	--	--	--	--	--
%RSD	.1231781	--	--	--	--	--	--

#1	38428	--	--	--	--	--	--
#2	38495	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met0412ccv\_00004 Operator: DCL

Run Time: 04/24/12 11:00:14

Comment: TRACE 61E

file:///c:/tjadata/temp/a042412.TXT

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.5292	.51056	.51061	.51349	.50264	.51283	.51667
SDev	.0098	.00173	.00092	.00132	.00002	.00063	.00034
%RSD	.38780	.33906	.18016	.25762	.00402	.12215	.06592

#1	2.5361	.51178	.51126	.51442	.50266	.51328	.51643
#2	2.5223	.50933	.50996	.51255	.50263	.51239	.51691

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.820	.49874	.49977	.50827	2.6313	.47644	.50192
SDev	.037	.00029	.00015	.00284	.0221	.00277	.00190
%RSD	.28517	.05750	.02923	.55923	.84140	.58160	.37776

#1	12.846	.49853	.49987	.51028	2.6156	.47840	.50058
#2	12.794	.49894	.49966	.50626	2.6469	.47448	.50326

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50119	4.9996	.49322	.51483	.49634	12.565	.99331
SDev	.00300	.0104	.00007	.00159	.00044	.053	.00565
%RSD	.59908	.20734	.01522	.30778	.08894	.42521	.56919

#1	.49907	4.9923	.49328	.51371	.49603	12.603	.99731
#2	.50331	5.0069	.49317	.51595	.49665	12.528	.98931

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25409	12.976	12.411	.25465	.52780	.50645	.51445
SDev	.00100	.036	.177	.00046	.00476	.00095	.00059
%RSD	.39463	.27948	1.4247	.18226	.90119	.18684	.11418

Analysis Report

04/24/12 11:04:06 AM

page 20

#1	.25480	12.951	12.536	.25498	.52444	.50579	.51486
#2	.25339	13.002	12.286	.25433	.53117	.50712	.51403

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50670	.52111	.48696	.50940	.47864	.51252
SDev	.00020	.00104	.00117	.00226	.00489	.00206
%RSD	.03983	.19999	.23985	.44368	1.0216	.40173

#1	.50656	.52184	.48613	.50781	.47518	.51107
#2	.50685	.52037	.48778	.51100	.48210	.51398

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39930	--	--	--	--	--	--
SDev	453.2554	--	--	--	--	--	--
%RSD	1.135111	--	--	--	--	--	--

#1	40251	--	--	--	--	--
#2	39610	--	--	--	--	--

Method: 20076010 Sample Name: CCB

Operator: DCL



file:///c:/tjadata/temp/a042412.TXT

Run Time: 04/24/12 11:04:09

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.02984	.00440	.00217	.00006	-.00023	.00133	-.00012
SDev	.00161	.00114	.00006	.00003	.00003	.00026	.00013
%RSD	5.3773	25.909	2.9455	50.891	11.820	19.392	112.66

#1	.02871	.00359	.00212	.00004	-.00021	.00151	-.00021
#2	.03098	.00520	.00221	.00008	-.00025	.00115	-.00002

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.01203	-.00005	-.00019	-.00194	.00179	-.00009	.00050
SDev	.00851	.00018	.00033	.00010	.04249	.00003	.00105
%RSD	70.773	393.08	171.17	5.0500	2371.1	30.740	210.83

#1	.00601	-.00017	-.00042	-.00187	-.02825	-.00011	.00124
#2	.01805	.00008	.00004	-.00201	.03184	-.00007	-.00024

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00058	-.01632	.00011	.00204	.00002	-.08831	.00502
SDev	.00517	.00374	.00006	.00103	.00068	.01881	.00161
%RSD	894.08	22.889	53.187	50.390	3162.0	21.299	32.025

#1	.00423	-.01896	.00007	.00276	-.00046	-.10161	.00388
#2	-.00308	-.01368	.00015	.00131	.00051	-.07501	.00616

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Analysis Report

04/24/12 11:07:56 AM

page 21

Avgc	-.00022	-.16857	-.00573	-.00001	-.00013	.00092	.00003
SDev	.00106	.21015	.00165	.00004	.00025	.00189	.00005
%RSD	471.24	124.67	28.814	261.67	193.52	205.13	202.68

#1	-.00097	-.31717	-.00689	-.00004	.00005	-.00042	-.00001
#2	.00052	-.01997	-.00456	.00001	-.00031	.00226	.00006

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00003	.00047	.00039	.00055	-.00220	.00197
SDev	.00045	.00004	.00055	.00130	.00373	.00589
%RSD	1740.9	7.8428	138.70	236.78	169.38	299.07

#1	-.00034	.00044	.00078	.00147	.00044	.00613
#2	.00029	.00049	.00001	-.00037	-.00484	-.00219

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	40142	--	--	--	--	--	--
SDev	92.63099	--	--	--	--	--	--
%RSD	.2307612	--	--	--	--	--	--

#1	40207	--	--	--	--	--	--
#2	40076	--	--	--	--	--	--



file:///c:/tjadata/temp/a042412.TXT

## Analysis Report

04/24/12 11:15:31 AM

page 1

Method: 20076010 Sample Name: mb 600-77655/1-a Operator: DCL

Run Time: 04/24/12 11:11:44

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.04181	.00429	.00132	.00285	-.00023	.00086	-.00005
SDev	.00035	.00156	.00056	.00001	.00002	.00042	.00003
%RSD	.83819	36.456	41.985	.50141	8.6967	48.138	65.610

#1	.04206	.00539	.00093	.00284	-.00024	.00057	-.00007
#2	.04156	.00318	.00172	.00286	-.00021	.00115	-.00003

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.38820	.00081	.00028	-.00083	.02734	.00019	.00110
SDev	.00241	.00013	.00019	.00032	.02281	.00005	.00014
%RSD	.62103	16.103	69.325	39.153	83.433	24.185	12.497

#1	.38990	.00072	.00041	-.00060	.04348	.00022	.00120
#2	.38649	.00090	.00014	-.00106	.01121	.00015	.00100

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00237	.01865	.00083	.00105	.00089	.10712	.01185
SDev	.00175	.00292	.00002	.00053	.00085	.02216	.00116
%RSD	73.651	15.644	2.9147	50.945	94.552	20.684	9.7903

#1	.00360	.02072	.00085	.00067	.00149	.12279	.01267
#2	.00114	.01659	.00082	.00143	.00030	.09145	.01103

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00043	.06334	.03868	.00029	-.00291	.03115	.00032
SDev	.00028	.05512	.00150	.00003	.00006	.00121	.00014
%RSD	63.792	87.035	3.8872	8.9066	2.1267	3.8778	43.199

#1	.00063	.10231	.03975	.00027	-.00286	.03200	.00042
#2	.00024	.02436	.03762	.00030	-.00295	.03029	.00022

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00024	.00663	.00133	.00099	-.00207	.00459
SDev	.00020	.00002	.00114	.00077	.00529	.00003
%RSD	79.965	.28886	85.452	78.351	254.97	.56329

#1	.00038	.00665	.00053	.00154	.00167	.00457
#2	.00011	.00662	.00213	.00044	-.00581	.00461

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	39238	--	--	--	--	--	--
SDev	185.9691	--	--	--	--	--	--
%RSD	.4739575	--	--	--	--	--	--



file:///c:/tjadata/temp/a042412.TXT

Analysis Report

04/24/12 11:15:31 AM

page 2

#1	39106	--	--	--	--	--	--
#2	39369	--	--	--	--	--	--

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Method: 20076010 Sample Name: lcs 600-77655/2-a Operator: DCL  
Run Time: 04/24/12 11:15:34  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	87.029	.76092	1.3749	2.8246	1.4683	.83742	.63641
SDev	.230	.00331	.0049	.0050	.0027	.00189	.00171
%RSD	.26371	.43476	.35896	.17613	.18702	.22563	.26845

#1	87.191	.76326	1.3783	2.8281	1.4702	.83875	.63762
#2	86.867	.75858	1.3714	2.8211	1.4663	.83608	.63520

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	89.426	.97240	1.3183	1.0283	186.35	.08700	1.3990
SDev	.248	.00269	.0040	.0025	.53	.00022	.0018
%RSD	.27773	.27645	.30137	.24106	.28206	.25456	.12945

#1	89.602	.97430	1.3211	1.0300	186.72	.08715	1.4003
#2	89.251	.97050	1.3155	1.0265	185.98	.08684	1.3977

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8202	40.335	4.9017	.83952	1.1645	48.751	11.566
SDev	.0039	.106	.0129	.00002	.0056	.121	.024
%RSD	.21325	.26195	.26236	.00275	.48200	.24824	.21090

#1	1.8175	40.410	4.9108	.83953	1.1685	48.837	11.583
#2	1.8230	40.260	4.8926	.83950	1.1605	48.665	11.548

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.44479	2.8341	6.4662	2.3999	1.6504	1.5841	4.3179
SDev	.00120	.1668	.0093	.0046	.0095	.0028	.0089
%RSD	.27051	5.8840	.14424	.19190	.57694	.17451	.20664

#1	.44564	2.9520	6.4728	2.4032	1.6436	1.5860	4.3243
#2	.44394	2.7162	6.4596	2.3966	1.6571	1.5821	4.3116

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.64621	2.1605	1.3509	1.4230	1.7355	1.8626
SDev	.00171	.0053	.0011	.0022	.0034	.0041
%RSD	.26464	.24459	.08085	.15251	.19776	.22047

#1	.64742	2.1642	1.3517	1.4246	1.7331	1.8597
#2	.64500	2.1567	1.3501	1.4215	1.7380	1.8655

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report

04/24/12 11:19:22 AM

page 3



file:///c:/tjadata/temp/a042412.TXT

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	45818	--	--	--	--	--	--
SDev	280.7214	--	--	--	--	--	--
%RSD	.6126947	--	--	--	--	--	--
#1	45619	--	--	--	--	--	--
#2	46016	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-53429-a-2-c Operator: DCL  
Run Time: 04/24/12 11:23:16  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	241.68	.00628	.08973	1.9982	.01734	.06597	-.00634
SDev	.68	.00008	.00143	.0033	.00001	.00121	.00014
%RSD	.28200	1.2833	1.5879	.16312	.06158	1.8356	2.2383

#1	242.16	.00622	.08872	2.0005	.01735	.06683	-.00644
#2	241.20	.00633	.09074	1.9958	.01734	.06512	-.00624

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	370.98	.20665	.11847	.19175	254.05	.25620	.23975
SDev	.44	.00012	.00024	.00077	.02	.00112	.00096
%RSD	.11919	.05565	.20160	.39948	.00830	.43877	.39961

#1	370.67	.20657	.11830	.19229	254.04	.25699	.23907
#2	371.29	.20673	.11864	.19121	254.07	.25540	.24042

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00486	89.161	3.8811	.00361	.23371	30.078	12.510
SDev	.00026	.009	.0002	.00093	.00184	.132	.016
%RSD	5.4045	.01029	.00458	25.620	.78571	.43726	.13151

#1	-.00468	89.168	3.8809	.00427	.23241	30.171	12.522
#2	-.00505	89.155	3.8812	.00296	.23501	29.985	12.499

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00369	17.904	18.259	.76610	-.01547	.02793	.46489
SDev	.00050	.030	.130	.00113	.00377	.00067	.00014
%RSD	13.550	.16744	.71340	.14711	24.361	2.4070	.03052

#1	-.00404	17.925	18.351	.76689	-.01281	.02746	.46499
#2	-.00334	17.883	18.167	.76530	-.01814	.02841	.46479

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50376	.46052	.21843	.25041	-.01882	.00212

Analysis Report 04/24/12 11:27:04 AM page 5

SDev	.00037	.00106	.00244	.00022	.00451	.00186
%RSD	.07393	.23098	1.1168	.08682	23.946	87.761

file:///c:/tjadata/temp/a042412.TXT

#1	.50403	.46127	.21670	.25025	-.01564	.00080	
#2	.50350	.45977	.22015	.25056	-.02201	.00343	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	46058	--	--	--	--	--	--
SDev	159.0990	--	--	--	--	--	--
%RSD	.3454356	--	--	--	--	--	--
#1	46170	--	--	--	--	--	--
#2	45945	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-53429-a-3-c Operator: DCL  
Run Time: 04/24/12 11:27:07  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	266.60	.00924	.17217	13.530	.01957	.07124	-.00987
SDev	.79	.00313	.00073	.038	.00004	.00004	.00010
%RSD	.29450	33.897	.42355	.28267	.20607	.05762	.96670

#1	267.16	.00702	.17165	13.557	.01960	.07127	-.00980
#2	266.05	.01145	.17268	13.503	.01954	.07121	-.00993

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	236.04	.25322	.53040	.33910	385.39	.31313	.69995
SDev	.41	.00084	.00057	.00090	.74	.00081	.00216
%RSD	.17355	.33180	.10783	.26545	.19240	.25966	.30850

#1	236.33	.25381	.53081	.33974	385.92	.31371	.69842
#2	235.76	.25262	.53000	.33847	384.87	.31256	.70147

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01729	103.86	58.053	.03273	.89821	34.970	12.100
SDev	.00194	.15	.125	.00064	.00108	.073	.029
%RSD	11.196	.14325	.21555	1.9616	.11993	.20768	.23918

#1	-.01592	103.96	58.141	.03319	.89897	35.021	12.121
#2	-.01866	103.75	57.964	.03228	.89745	34.918	12.080

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00557	21.965	22.154	1.0163	-.03882	.02428	.53647
SDev	.00059	.130	.041	.0027	.00551	.00218	.00172
%RSD	10.533	.58989	.18483	.26664	14.193	8.9647	.32157

#1	-.00599	21.874	22.183	1.0182	-.03493	.02582	.53769
#2	-.00516	22.057	22.125	1.0144	-.04272	.02274	.53525

Analysis Report

04/24/12 11:30:55 AM

page 6

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.65162	.58577	.65491	.72247	-.04925	-.00131
SDev	.00208	.00076	.00029	.00310	.00162	.00371

file:///c:/tjadata/temp/a042412.TXT

%RSD	.31907	.12947	.04392	.42841	3.2844	283.22	
#1	.65309	.58631	.65470	.72028	-.05040	.00131	
#2	.65015	.58524	.65511	.72466	-.04811	-.00394	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	46071	--	--	--	--	--	--
SDev	62.22539	--	--	--	--	--	--
%RSD	.1350641	--	--	--	--	--	--
#1	46027	--	--	--	--	--	--
#2	46115	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-53429-a-4-c Operator: DCL  
Run Time: 04/24/12 11:30:58  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	272.45	.00878	.08357	5.5115	.01818	.06666	-.00651
SDev	1.66	.00003	.00235	.0323	.00012	.00101	.00010
%RSD	.60755	.28210	2.8138	.58574	.67773	1.5217	1.4891

#1	273.62	.00876	.08523	5.5343	.01827	.06737	-.00644
#2	271.28	.00879	.08190	5.4887	.01810	.06594	-.00658

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	498.20	.76825	.14802	.52734	301.99	.28911	1.1321
SDev	3.71	.00573	.00090	.00354	1.93	.00150	.0002
%RSD	.74370	.74573	.61114	.67143	.63803	.51694	.01517

#1	500.82	.77230	.14866	.52985	303.35	.29016	1.1322
#2	495.58	.76420	.14738	.52484	300.63	.28805	1.1319

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00846	98.670	12.348	.00946	.30295	34.312	11.421
SDev	.00007	.680	.083	.00117	.00186	.192	.063
%RSD	.77987	.68956	.67343	12.403	.61487	.55877	.54906

#1	-.00851	99.151	12.407	.01028	.30426	34.447	11.466
#2	-.00841	98.189	12.289	.00863	.30163	34.176	11.377

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00394	12.063	12.771	.79535	-.02120	.03740	.40049
SDev	.00018	.099	.050	.00422	.00118	.00084	.00270

Analysis Report 04/24/12 11:34:46 AM page 7

%RSD	4.4948	.81697	.38997	.53045	5.5652	2.2483	.67394
#1	-.00406	12.132	12.806	.79833	-.02203	.03799	.40240
#2	-.00381	11.993	12.736	.79237	-.02036	.03680	.39858

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm

file:///c:/tjadata/temp/a042412.TXT

Avge	.51624	1.1174	1.0791	1.1586	-.02035	-.00251	
SDev	.00344	.0067	.0111	.0053	.00463	.00241	
%RSD	.66612	.59832	1.0320	.45836	22.738	96.007	
#1	.51867	1.1221	1.0869	1.1548	-.01708	-.00422	
#2	.51381	1.1126	1.0712	1.1623	-.02363	-.00081	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	45094	--	--	--	--	--	--
SDev	456.7910	--	--	--	--	--	--
%RSD	1.012975	--	--	--	--	--	--
#1	44771	--	--	--	--	--	--
#2	45417	--	--	--	--	--	--

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Method: 20076010    Sample Name: 600-53429-a-5-c    Operator: DCL  
Run Time: 04/24/12 11:34:49  
Comment: TRACE 61E  
Mode: CONC    Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	245.93	.00832	.05216	2.8580	.01729	.06695	-.00818
SDev	2.26	.00275	.00051	.0253	.00017	.00010	.00010
%RSD	.91697	33.024	.97649	.88380	.97290	.14762	1.2816
#1	247.53	.00638	.05180	2.8758	.01741	.06688	-.00810
#2	244.34	.01027	.05252	2.8401	.01717	.06702	-.00825
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	47.467	.22132	.14331	.21306	281.02	.27037	.15027
SDev	.427	.00199	.00166	.00174	2.50	.00239	.00216
%RSD	.89870	.90061	1.1577	.81479	.89089	.88245	1.4377
#1	47.769	.22273	.14448	.21429	282.79	.27206	.15180
#2	47.166	.21991	.14214	.21183	279.25	.26868	.14874
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00646	105.79	4.1721	.00473	.29349	32.128	11.483
SDev	.00072	.96	.0374	.00018	.00212	.303	.096
%RSD	11.223	.90385	.89589	3.7264	.72300	.94273	.83510
#1	-.00594	106.47	4.1985	.00461	.29499	32.343	11.551
#2	-.00697	105.12	4.1456	.00486	.29199	31.914	11.415

Analysis Report

04/24/12 11:38:37 AM

page 8

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00347	16.654	16.561	.63944	-.01260	.03194	.40251
SDev	.00008	.226	.151	.00565	.00039	.00121	.00410
%RSD	2.3533	1.3563	.91048	.88395	3.0813	3.7948	1.0178
#1	-.00341	16.813	16.668	.64344	-.01288	.03279	.40540
#2	-.00352	16.494	16.455	.63544	-.01233	.03108	.39961



file:///c:/tjadata/temp/a042412.TXT

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.38742	.58284	.13350	.15865	-.01586	-.00176	
SDev	.00337	.00583	.00214	.00217	.00829	.00306	
%RSD	.86910	1.0000	1.6057	1.3670	52.301	174.32	
#1	.38980	.58696	.13502	.16019	-.00999	-.00392	
#2	.38504	.57871	.13199	.15712	-.02172	.00041	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	43394	--	--	--	--	--	--
SDev	343.6539	--	--	--	--	--	--
%RSD	.7919387	--	--	--	--	--	--
#1	43151	--	--	--	--	--	--
#2	43637	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53429-a-6-c Operator: DCL  
Run Time: 04/24/12 11:38:41  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	212.77	.00462	.05833	1.7949	.01427	.04995	-.00552
SDev	.38	.00208	.00091	.0035	.00000	.00006	.00003
%RSD	.17932	45.119	1.5622	.19346	.02425	.12904	.51824
#1	213.04	.00314	.05897	1.7974	.01428	.04991	-.00555
#2	212.50	.00609	.05768	1.7925	.01427	.05000	-.00550
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	182.21	.18286	.09946	.18413	214.47	.21428	.29589
SDev	.02	.00004	.00041	.00012	.06	.00039	.00060
%RSD	.01210	.02197	.41107	.06438	.02768	.18170	.20350
#1	182.20	.18289	.09918	.18422	214.43	.21455	.29632
#2	182.23	.18283	.09975	.18405	214.51	.21400	.29546
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00567	83.264	4.4818	.00302	.21499	27.544	11.816
SDev	.00046	.025	.0023	.00109	.00086	.050	.011
%RSD	8.1160	.03028	.05220	36.049	.39826	.18213	.09370

Analysis Report 04/24/12 11:42:29 AM page 9

#1	-.00599	83.282	4.4835	.00379	.21438	27.579	11.823
#2	-.00534	83.247	4.4802	.00225	.21559	27.508	11.808
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00313	17.228	17.092	.62304	-.01290	.03068	.33632
SDev	.00061	.179	.053	.00088	.00162	.00035	.00026
%RSD	19.354	1.0396	.31046	.14114	12.581	1.1489	.07633
#1	-.00356	17.102	17.129	.62366	-.01404	.03093	.33651

file:///c:/tjadata/temp/a042412.TXT

#2	-.00270	17.355	17.054	.62242	-.01175	.03043	.33614
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.31889	.43101	.27674	.30546	-.01866	.00083	
SDev	.00014	.00050	.00016	.00098	.00170	.00154	
%RSD	.04237	.11521	.05794	.32194	9.1022	185.31	
#1	.31899	.43136	.27663	.30616	-.01746	-.00026	
#2	.31879	.43066	.27686	.30477	-.01986	.00192	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	42137	--	--	--	--	--	--
SDev	41.01219	--	--	--	--	--	--
%RSD	.0973306	--	--	--	--	--	--
#1	42166	--	--	--	--	--	--
#2	42108	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-53429-a-6-d du Operator: DCL  
Run Time: 04/24/12 11:42:32  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	250.82	.00741	.05712	1.8084	.01674	.06795	-.00710
SDev	.47	.00033	.00112	.0037	.00005	.00082	.00001
%RSD	.18866	4.4133	1.9575	.20473	.29288	1.2096	.13358
#1	251.15	.00764	.05633	1.8110	.01678	.06853	-.00709
#2	250.49	.00718	.05791	1.8057	.01671	.06737	-.00711
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	197.50	.24271	.19767	.18220	258.02	.26215	.21018
SDev	.56	.00049	.00113	.00004	.64	.00031	.00018
%RSD	.28563	.20110	.57055	.02240	.24700	.11674	.08598
#1	197.90	.24306	.19847	.18223	258.47	.26237	.21005
#2	197.10	.24237	.19687	.18217	257.57	.26194	.21031
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881

Analysis Report

04/24/12 11:46:20 AM

page 10

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00560	96.604	4.5027	.00360	.26241	34.053	12.082
SDev	.00271	.267	.0117	.00008	.00128	.017	.022
%RSD	48.282	.27680	.26011	2.2197	.48605	.05011	.18379
#1	-.00369	96.793	4.5109	.00355	.26331	34.065	12.098
#2	-.00752	96.415	4.4944	.00366	.26151	34.041	12.066
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00371	18.997	18.941	.68696	-.00998	.02877	.35707
SDev	.00038	.191	.002	.00124	.00189	.00105	.00091
%RSD	10.332	1.0077	.01113	.18024	18.982	3.6647	.25538

file:///c:/tjadata/temp/a042412.TXT

#1	-.00344	19.132	18.939	.68784	-.00864	.02952	.35771
#2	-.00398	18.861	18.942	.68609	-.01131	.02802	.35643
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.44027	.51849	.19125	.21964	-.01859	.00089	
SDev	.00148	.00076	.00031	.00042	.00575	.00118	
%RSD	.33579	.14757	.16131	.19364	30.929	133.48	
#1	.44132	.51903	.19147	.21934	-.01452	.00172	
#2	.43923	.51795	.19104	.21994	-.02265	.00005	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	42914	--	--	--	--	--	--
SDev	72.83200	--	--	--	--	--	--
%RSD	.1697182	--	--	--	--	--	--
#1	42862	--	--	--	--	--	--
#2	42965	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-53429-a-6-e ms Operator: DCL  
Run Time: 04/24/12 11:46:23  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	311.62	.35937	.94958	2.7994	.47964	.61742	.45958
SDev	.27	.00177	.00378	.0020	.00012	.00075	.00022
%RSD	.08571	.49194	.39799	.07074	.02493	.12147	.04883
#1	311.43	.36062	.94691	2.7980	.47973	.61795	.45942
#2	311.81	.35812	.95226	2.8008	.47956	.61689	.45973

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	186.68	1.1940	1.0100	1.1498	288.91	.80436	1.1250
SDev	.20	.0002	.0001	.0010	.37	.00139	.0023
%RSD	.10665	.01741	.00726	.08563	.12899	.17260	.20104

Analysis Report 04/24/12 11:50:11 AM page 11

#1	186.54	1.1939	1.0100	1.1505	288.65	.80338	1.1234
#2	186.83	1.1942	1.0101	1.1491	289.18	.80534	1.1266
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.82005	107.65	5.3278	.76722	1.1498	50.401	13.105
SDev	.00669	.01	.0007	.00279	.0025	.108	.018
%RSD	.81532	.01277	.01351	.36366	.21934	.21418	.14087
#1	.81532	107.64	5.3272	.76525	1.1516	50.325	13.092
#2	.82478	107.66	5.3283	.76920	1.1480	50.478	13.118
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

file:///c:/tjadata/temp/a042412.TXT

Avge	.50057	29.870	29.574	1.1761	.97451	.84158	.68030
SDev	.00066	.053	.068	.0009	.00343	.00017	.00059
%RSD	.13222	.17838	.22929	.07697	.35203	.02063	.08638

#1	.50104	29.908	29.526	1.1755	.97693	.84146	.67988
#2	.50010	29.832	29.622	1.1768	.97208	.84170	.68071

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.3364	1.5206	1.0658	1.1546	.76509	.84753	
SDev	.0003	.0005	.0020	.0044	.00025	.00991	
%RSD	.02615	.03574	.18795	.38057	.03210	1.1688	

#1	1.3362	1.5210	1.0672	1.1515	.76491	.84053	
#2	1.3367	1.5202	1.0644	1.1577	.76526	.85453	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	41468	--	--	--	--	--	--
SDev	98.28784	--	--	--	--	--	--
%RSD	.2370181	--	--	--	--	--	--

#1	41399	--	--	--	--	--	--
#2	41538	--	--	--	--	--	--

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Method: 20076010 Sample Name: CCV met0412ccv\_00004 Operator: DCL  
Run Time: 04/24/12 11:50:14  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.5364	.51425	.50963	.51804	.49198	.51431	.52090
SDev	.0144	.00239	.00217	.00135	.00085	.00051	.00011
%RSD	.56679	.46489	.42538	.25960	.17345	.09910	.02130

#1	2.5465	.51594	.51116	.51899	.49258	.51467	.52098
#2	2.5262	.51256	.50809	.51709	.49137	.51395	.52082

Analysis Report

04/24/12 11:54:01 AM

page 12

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.629	.49145	.49037	.49998	2.6267	.48103	.49981
SDev	.015	.00116	.00022	.00284	.0102	.00147	.00227
%RSD	.11660	.23533	.04411	.56818	.38919	.30578	.45340

#1	12.640	.49227	.49052	.50199	2.6195	.48207	.50141
#2	12.619	.49063	.49021	.49797	2.6340	.47999	.49821

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50026	4.9475	.48766	.51549	.50039	12.679	1.0009
SDev	.00335	.0109	.00054	.00162	.00195	.027	.0104
%RSD	.67018	.22022	.11129	.31420	.38904	.21170	1.0393

#1	.50263	4.9552	.48804	.51664	.50177	12.698	1.0083
#2	.49789	4.9398	.48727	.51435	.49901	12.660	.99354

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Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25259	13.053	12.471	.25772	.54099	.50119	.51228
SDev	.00003	.228	.084	.00042	.00456	.00209	.00090
%RSD	.01213	1.7479	.67455	.16391	.84252	.41765	.17635

#1	.25261	12.892	12.531	.25802	.53777	.50267	.51292
#2	.25257	13.215	12.412	.25742	.54421	.49971	.51164

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50000	.52412	.47423	.51260	.46598	.51745
SDev	.00073	.00094	.00436	.00122	.01106	.00050
%RSD	.14548	.17997	.91955	.23777	2.3742	.09714

#1	.50051	.52479	.47732	.51346	.47380	.51710
#2	.49948	.52346	.47115	.51174	.45816	.51781

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39556	--	--	--	--	--	--
SDev	234.0523	--	--	--	--	--	--
%RSD	.5917062	--	--	--	--	--	--
#1	39721	--	--	--	--	--	--
#2	39390	--	--	--	--	--	--

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Method: 20076010 Sample Name: CCB Operator: DCL  
Run Time: 04/24/12 11:54:05  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04963	.00260	.00050	.00005	-.00037	.00143	-.00003
SDev	.00140	.00172	.00153	.00002	.00003	.00051	.00013

Analysis Report 04/24/12 11:57:52 AM page 13

%RSD	2.8175	66.141	307.32	46.879	8.2179	35.690	474.43
#1	.05062	.00381	.00158	.00003	-.00035	.00179	-.00012
#2	.04864	.00138	-.00058	.00007	-.00039	.00107	.00007

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00640	-.00013	.00050	-.00290	.01022	.00012	.00057
SDev	.00051	.00000	.00011	.00042	.00449	.00007	.00006
%RSD	8.0322	.75330	21.760	14.381	43.927	56.917	11.367

#1	-.00676	-.00013	.00058	-.00260	.01339	.00017	.00052
#2	-.00603	-.00013	.00042	-.00319	.00704	.00007	.00061

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00131	.00665	.00018	.00160	.00014	.01265	.00670
SDev	.00054	.00413	.00000	.00174	.00073	.02069	.00246
%RSD	41.155	62.188	.30481	108.65	539.26	163.62	36.697

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#1	.00093	.00957	.00018	.00283	.00065	.02728	.00844
#2	.00169	.00373	.00018	.00037	-.00038	-.00199	.00496
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00006	-.05168	.00375	-.00008	-.00136	-.00107	-.00000
SDev	.00027	.01056	.00240	.00002	.00461	.00032	.00019
%RSD	471.36	20.436	63.906	30.446	337.98	29.704	719900.
#1	.00013	-.04422	.00545	-.00006	.00189	-.00129	.00013
#2	-.00025	-.05915	.00206	-.00010	-.00462	-.00084	-.00013
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	-.00008	.00033	-.00160	.00165	.00143	.00125	
SDev	.00002	.00008	.00219	.00100	.00304	.00071	
%RSD	20.487	24.824	136.78	60.516	212.29	56.901	
#1	-.00007	.00027	-.00315	.00235	-.00072	.00175	
#2	-.00009	.00039	-.00005	.00094	.00358	.00075	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	39730	--	--	--	--	--	--
SDev	127.9863	--	--	--	--	--	--
%RSD	.3221443	--	--	--	--	--	--
#1	39639	--	--	--	--	--	--
#2	39820	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-53429-a-6-f msd Operator: DCL  
Run Time: 04/24/12 11:57:55  
Comment: TRACE 61E

## Analysis Report

04/24/12 12:01:43 PM

page 14

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	296.80	.37319	.93320	2.7533	.46558	.63721	.44863
SDev	.63	.00204	.00221	.0064	.00056	.00203	.00004
%RSD	.21240	.54786	.23636	.23332	.12092	.31839	.00933
#1	297.25	.37464	.93476	2.7579	.46598	.63864	.44860
#2	296.35	.37174	.93164	2.7488	.46518	.63578	.44866
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	215.81	1.1497	1.0338	1.1281	274.75	.80271	1.1270
SDev	.02	.0008	.0028	.0047	.27	.00201	.0053
%RSD	.01107	.07177	.26929	.41237	.09929	.25101	.46653
#1	215.83	1.1503	1.0357	1.1314	274.94	.80413	1.1307
#2	215.79	1.1491	1.0318	1.1248	274.55	.80129	1.1233
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm



file:///c:/tjadata/temp/a042412.TXT

Avge	.79388	107.37	5.0183	.76913	1.1161	48.621	12.711
SDev	.00154	.09	.0046	.00110	.0038	.096	.010
%RSD	.19354	.08711	.09233	.14290	.34287	.19780	.07917

#1	.79497	107.43	5.0216	.76836	1.1188	48.689	12.718
#2	.79280	107.30	5.0151	.76991	1.1134	48.553	12.703

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49043	30.028	30.075	1.1849	.95907	.83003	.66907
SDev	.00171	.067	.136	.0026	.00796	.00076	.00093
%RSD	.34875	.22205	.45075	.22036	.82971	.09160	.13919

#1	.49164	30.075	30.171	1.1868	.95344	.82949	.66973
#2	.48922	29.981	29.979	1.1831	.96470	.83057	.66841

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.3331	1.4898	1.0577	1.1616	.73518	.82323	
SDev	.0016	.0014	.0010	.0074	.00749	.00605	
%RSD	.12026	.09322	.09624	.63511	1.0182	.73461	

#1	1.3342	1.4908	1.0584	1.1669	.72989	.82751	
#2	1.3320	1.4888	1.0569	1.1564	.74048	.81896	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	41648	--	--	--	--	--	--
SDev	152.7351	--	--	--	--	--	--
%RSD	.3667284	--	--	--	--	--	--

#1	41756	--	--	--	--	--	--
#2	41540	--	--	--	--	--	--

Analysis Report

04/24/12 12:01:43 PM

page 15

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Method: 20076010 Sample Name: 600-53506-a-1-m Operator: DCL  
Run Time: 04/24/12 12:01:46  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.128	.00577	.05235	.61826	.00437	.02453	-.00268
SDev	.829	.00021	.00027	.00918	.00010	.00074	.00018
%RSD	1.6532	3.6019	.51390	1.4847	2.3295	3.0339	6.8134

#1	50.714	.00591	.05254	.62475	.00444	.02506	-.00255
#2	49.542	.00562	.05216	.61177	.00430	.02400	-.00281

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	573.46	.10587	.05155	.25579	127.88	.03640	.10695
SDev	10.74	.00206	.00134	.00440	2.19	.00069	.00314
%RSD	1.8723	1.9496	2.5891	1.7211	1.7159	1.8927	2.9321

#1	581.05	.10733	.05249	.25891	129.43	.03689	.10917
#2	565.87	.10441	.05060	.25268	126.33	.03591	.10473



file:///c:/tjadata/temp/a042412.TXT

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00307	13.810	2.1244	.02011	.11004	9.2607	12.066
SDev	.00148	.259	.0359	.00128	.00168	.1921	.200
%RSD	48.098	1.8786	1.6920	6.3427	1.5303	2.0748	1.6592
#1	.00412	13.993	2.1498	.02101	.11123	9.3965	12.207
#2	.00203	13.627	2.0989	.01921	.10885	9.1248	11.924
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00207	2.2269	2.4815	1.2707	-.00683	.03897	.36816
SDev	.00073	.1989	.0363	.0192	.00184	.00123	.00622
%RSD	35.104	8.9333	1.4638	1.5093	26.858	3.1584	1.6899
#1	-.00156	2.3675	2.5072	1.2843	-.00554	.03984	.37256
#2	-.00258	2.0862	2.4558	1.2572	-.00813	.03810	.36376
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.16487	.64171	.09703	.11191	-.00871	.00896	
SDev	.00302	.00959	.00125	.00533	.00451	.00447	
%RSD	1.8315	1.4950	1.2923	4.7635	51.845	49.918	
#1	.16701	.64849	.09615	.11568	-.01190	.01212	
#2	.16274	.63493	.09792	.10814	-.00552	.00580	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	39838	--	--	--	--	--	--

Analysis Report 04/24/12 12:05:34 PM page 16

SDev	616.5971	--	--	--	--	--	--
%RSD	1.547761	--	--	--	--	--	--
#1	39402	--	--	--	--	--	--
#2	40274	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53507-a-1-h Operator: DCL  
Run Time: 04/24/12 12:05:37  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.121	k.21560	.21323	.39574	-.00047	-.02365	k.24994
SDev	.052	.00072	.00252	.00118	.00000	.00204	.00233
%RSD	.51064	.33385	1.1808	.29690	.57991	8.6113	.93138
#1	10.157	k.21611	.21501	.39657	-.00047	-.02509	k.25159
#2	10.084	k.21509	.21145	.39491	-.00046	-.02221	k.24830
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.8113	2.3133	.26427	k26.259	S798.74	.00463	k.29910
SDev	.0384	.0075	.00328	.152	4.43	.00005	.00042
%RSD	.49220	.32547	1.2395	.57791	.55472	1.0009	.14169



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#1	7.8384	2.3186	.26658	k26.366	S801.88	.00466	k.29940
#2	7.7841	2.3080	.26195	k26.152	S795.61	.00459	k.29880
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	k.34245	2.8172	19.032	.80958	4.0401	.60209	7.7484
SDev	.00377	.0123	.068	.00450	.0435	.01797	.0135
%RSD	1.1014	.43539	.35653	.55572	1.0756	2.9844	.17435
#1	k.33979	2.8258	19.080	.81276	4.0709	.61480	7.7580
#2	k.34512	2.8085	18.984	.80640	4.0094	.58939	7.7389
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01172	1.3338	1.0119	.06695	k.01390	.34608	.40240
SDev	.00049	.0356	.0075	.00015	.00803	.00877	.00136
%RSD	4.1918	2.6673	.74493	.22265	57.760	2.5325	.33774
#1	-.01137	1.3590	1.0172	.06706	k.01957	.35227	.40336
#2	-.01207	1.3086	1.0066	.06685	k.00822	.33988	.40143
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.0375	k9.7739	k.39369	k.25180	k.84120	k.09308	
SDev	.0030	.0376	.00134	.00004	.00770	.00951	
%RSD	.28460	.38456	.34129	.01435	.91521	10.214	
#1	1.0396	k9.8005	k.39464	k.25178	k.84665	k.08636	
#2	1.0355	k9.7474	k.39274	k.25183	k.83576	k.09980	

Analysis Report

04/24/12 12:09:24 PM

page 17

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36698	--	--	--	--	--	--
SDev	139.3000	--	--	--	--	--	--
%RSD	.3795900	--	--	--	--	--	--
#1	36599	--	--	--	--	--	--
#2	36796	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53507-a-2-e Operator: DCL  
Run Time: 04/24/12 12:09:27  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	146.52	.00480	.05714	2.3921	.01206	.03557	-.00462
SDev	.56	.00137	.00177	.0090	.00005	.00003	.00005
%RSD	.38209	28.499	3.1015	.37475	.39314	.06904	1.1397
#1	146.92	.00384	.05589	2.3984	.01209	.03555	-.00458
#2	146.13	.00577	.05839	2.3858	.01203	.03559	-.00466
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

file:///c:/tjadata/temp/a042412.TXT

Avge	516.64	.17927	.11859	.16164	172.77	.11809	.23958
SDev	2.01	.00053	.00041	.00125	.53	.00047	.00021
%RSD	.38899	.29719	.34454	.77511	.30927	.40143	.08965

#1	518.06	.17964	.11887	.16252	173.15	.11842	.23943
#2	515.22	.17889	.11830	.16075	172.40	.11775	.23973

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00267	37.303	3.2541	.00671	.13828	15.374	12.116
SDev	.00078	.132	.0123	.00124	.00050	.075	.050
%RSD	29.345	.35507	.37700	18.535	.36317	.48652	.41097

#1	-.00212	37.397	3.2628	.00759	.13793	15.427	12.151
#2	-.00323	37.209	3.2455	.00583	.13864	15.321	12.081

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00251	2.4854	2.6872	1.1569	-.00434	.03188	.27927
SDev	.00056	.0017	.0108	.0040	.00135	.00374	.00079
%RSD	22.357	.06786	.40286	.34909	31.150	11.723	.28234

#1	-.00290	2.4842	2.6948	1.1598	-.00339	.03452	.27983
#2	-.00211	2.4866	2.6795	1.1540	-.00530	.02924	.27872

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.44860	.33183	.22203	.24835	-.00990	.00094	
SDev	.00157	.00171	.00036	.00050	.00315	.00040	
%RSD	.35004	.51554	.16400	.20304	31.880	42.679	

Analysis Report

04/24/12 12:13:18 PM

page 18

#1	.44971	.33304	.22229	.24800	-.00767	.00066	
#2	.44749	.33062	.22177	.24871	-.01213	.00122	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	42086	--	--	--	--	--	--
SDev	286.3782	--	--	--	--	--	--
%RSD	.6804516	--	--	--	--	--	--
#1	41884	--	--	--	--	--	--
#2	42289	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53514-a-3-b Operator: DCL  
Run Time: 04/24/12 12:13:21  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	127.23	.00927	.06149	1.7847	.01130	.03676	-.00643
SDev	.27	.00227	.00057	.0048	.00004	.00024	.00020
%RSD	.21179	24.465	.93232	.26962	.38421	.64193	3.1534
#1	127.42	.00766	.06109	1.7881	.01133	.03693	-.00629
#2	127.04	.01087	.06190	1.7812	.01126	.03659	-.00657

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Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	37.752	.15077	.06654	.17843	205.04	.11557	.14199
SDev	.152	.00097	.00047	.00090	.73	.00017	.00038
%RSD	.40195	.64695	.70226	.50299	.35383	.14928	.26542

#1	37.859	.15146	.06687	.17907	205.55	.11569	.14225
#2	37.645	.15008	.06621	.17780	204.52	.11545	.14172

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00081	37.580	3.3200	.00500	.18751	15.687	12.068
SDev	.00006	.150	.0128	.00035	.00115	.013	.035
%RSD	7.9212	.40037	.38432	6.9551	.61451	.08358	.29064

#1	-.00077	37.686	3.3290	.00525	.18832	15.696	12.092
#2	-.00086	37.474	3.3109	.00476	.18670	15.677	12.043

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00291	2.8936	3.2019	.23528	-.00835	.02817	.40345
SDev	.00019	.0071	.0023	.00057	.00152	.00083	.00162
%RSD	6.5399	.24460	.07191	.24225	18.139	2.9462	.40271

#1	-.00305	2.8986	3.2003	.23568	-.00942	.02876	.40460
#2	-.00278	2.8886	3.2035	.23488	-.00728	.02758	.40230

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
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Analysis Report

04/24/12 12:17:15 PM

page 19

Units	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.40045	.34060	.12770	.14913	-.01238	.00497
SDev	.00168	.00135	.00074	.00019	.00115	.00067
%RSD	.41831	.39606	.58128	.13019	9.2867	13.496

#1	.40164	.34156	.12822	.14927	-.01319	.00545
#2	.39927	.33965	.12717	.14900	-.01157	.00450

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	44488	--	--	--	--	--	--
SDev	166.1701	--	--	--	--	--	--
%RSD	.3735209	--	--	--	--	--	--

#1	44370	--	--	--	--	--	--
#2	44605	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53514-a-4-b Operator: DCL

Run Time: 04/24/12 12:17:18

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	222.05	.00553	.09353	2.8655	.01474	.08950	-.00626
SDev	4.10	.00144	.00251	.0478	.00024	.00177	.00008
%RSD	1.8478	26.096	2.6820	1.6681	1.6213	1.9789	1.2699

#1	219.15	.00655	.09175	2.8317	.01457	.08824	-.00632
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file:///c:/tjadata/temp/a042412.TXT

#2	224.95	.00451	.09530	2.8993	.01491	.09075	-.00621
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	703.20	.22848	.16358	.17600	269.06	.29553	.22602
SDev	11.51	.00433	.00267	.00355	4.84	.00532	.00199
%RSD	1.6372	1.8952	1.6329	2.0194	1.8000	1.8005	.88233

#1	695.06	.22542	.16169	.17349	265.63	.29177	.22461
#2	711.34	.23154	.16547	.17851	272.48	.29929	.22743

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01624	112.37	24.775	.00181	.26258	32.560	11.417
SDev	.00096	2.02	.402	.00006	.00579	.619	.203
%RSD	5.9014	1.8018	1.6225	3.3463	2.2047	1.9014	1.7755

#1	-.01692	110.94	24.491	.00186	.25849	32.122	11.274
#2	-.01557	113.80	25.059	.00177	.26667	32.998	11.560

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00345	16.708	17.624	.97153	-.01001	.02414	.33324
SDev	.00058	.178	.327	.01631	.00324	.00086	.00596
%RSD	16.701	1.0634	1.8542	1.6782	32.359	3.5815	1.7901

Analysis Report

04/24/12 12:21:13 PM

page 20

#1	-.00304	16.582	17.393	.96001	-.01230	.02352	.32902
#2	-.00385	16.833	17.855	.98306	-.00772	.02475	.33745

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.42126	.47015	.20296	.23755	-.02871	-.01001	
SDev	.00774	.00778	.00172	.00385	.00339	.00026	
%RSD	1.8381	1.6556	.84936	1.6221	11.823	2.5874	

#1	.41578	.46465	.20418	.23483	-.03111	-.00983	
#2	.42673	.47565	.20174	.24028	-.02631	-.01020	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	48067	--	--	--	--	--	--
SDev	492.1463	--	--	--	--	--	--
%RSD	1.023876	--	--	--	--	--	--

#1	48415	--	--	--	--	--	--
#2	47719	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53514-a-4-c du Operator: DCL

Run Time: 04/24/12 12:21:16

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	252.26	.00934	.07990	2.6483	.01662	.08660	-.00726
SDev	1.36	.00034	.00177	.0102	.00005	.00093	.00019
%RSD	.53873	3.6831	2.2119	.38379	.27607	1.0788	2.6739

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#1	253.22	.00958	.08115	2.6555	.01665	.08726	-.00712
#2	251.30	.00910	.07865	2.6411	.01659	.08594	-.00740
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	551.35	.24903	.13134	.17817	280.54	.29890	.17059
SDev	.49	.00095	.00070	.00080	.64	.00187	.00114
%RSD	.08873	.38061	.53184	.44837	.22732	.62664	.67094
#1	551.70	.24970	.13183	.17874	280.99	.30023	.16978
#2	551.01	.24836	.13084	.17761	280.09	.29758	.17140
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.01348	105.68	10.138	.00265	.26623	32.855	12.123
SDev	.00253	.27	.021	.00134	.00160	.204	.046
%RSD	18.761	.25708	.20956	50.410	.60095	.62199	.37830
#1	-.01169	105.87	10.153	.00360	.26736	33.000	12.156
#2	-.01527	105.49	10.123	.00171	.26510	32.711	12.091
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Analysis Report	04/24/12 12:25:11 PM					page 21	
Avgc	-.00357	18.826	19.528	.86420	-.00527	.03033	.34003
SDev	.00039	.143	.157	.00308	.00248	.00298	.00120
%RSD	10.858	.76131	.80226	.35618	47.005	9.8203	.35390
#1	-.00329	18.928	19.639	.86637	-.00352	.03243	.34088
#2	-.00384	18.725	19.417	.86202	-.00702	.02822	.33918
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	.43823	.49636	.14868	.18154	-.02611	-.00716	
SDev	.00107	.00164	.00003	.00173	.00592	.00083	
%RSD	.24504	.33097	.02255	.95491	22.663	11.649	
#1	.43899	.49752	.14870	.18032	-.02193	-.00657	
#2	.43747	.49520	.14866	.18277	-.03030	-.00775	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	44456	--	--	--	--	--	--
SDev	107.4802	--	--	--	--	--	--
%RSD	.2417677	--	--	--	--	--	--
#1	44532	--	--	--	--	--	--
#2	44380	--	--	--	--	--	--
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Method:	20076010	Sample Name:	600-53514-a-4-d ms	Operator:	DCL		
Run Time:	04/24/12 12:25:14						
Comment:	TRACE 61E						
Mode:	CONC	Corr. Factor:	1				
Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	307.31	.24438	.89185	26.934	.40472	.60497	.38152

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SDev	1.51	.00263	.00504	.081	.00056	.00168	.00026
%RSD	.49008	1.0742	.56557	.29990	.13906	.27820	.06750
#1	308.37	.24624	.89542	26.991	.40512	.60616	.38170
#2	306.25	.24252	.88828	26.876	.40433	.60378	.38134
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	733.37	1.0579	.91105	1.0414	325.97	.85225	.98445
SDev	.13	.0023	.00172	.0045	.53	.00558	.00320
%RSD	.01800	.21389	.18872	.42808	.16303	.65477	.32523
#1	733.47	1.0595	.91227	1.0446	326.34	.85620	.98219
#2	733.28	1.0563	.90984	1.0383	325.59	.84831	.98672
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.70881	132.61	13.763	.64752	1.0334	53.128	12.429
SDev	.00366	.27	.024	.00205	.0058	.315	.028
%RSD	.51592	.20575	.17231	.31706	.56355	.59347	.22859
#1	.71140	132.80	13.779	.64607	1.0375	53.351	12.449
Analysis Report				04/24/12 12:29:09 PM		page 22	
#2	.70622	132.41	13.746	.64897	1.0293	52.905	12.409
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.44419	29.446	30.550	2.1698	.83188	.71698	.56153
SDev	.00160	.250	.248	.0074	.00098	.00246	.00172
%RSD	.35945	.84973	.81176	.33985	.11836	.34345	.30670
#1	.44532	29.623	30.726	2.1750	.83257	.71872	.56274
#2	.44306	29.269	30.375	2.1646	.83118	.71524	.56031
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.2539	1.4036	.91363	1.0199	.64902	.73871	
SDev	.0025	.0030	.00272	.0062	.00442	.00328	
%RSD	.20085	.21636	.29757	.60419	.68082	.44348	
#1	1.2557	1.4058	.91555	1.0155	.65214	.74102	
#2	1.2521	1.4015	.91170	1.0242	.64589	.73639	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	46188	--	--	--	--	--	--
SDev	109.6016	--	--	--	--	--	--
%RSD	.2372970	--	--	--	--	--	--
#1	46265	--	--	--	--	--	--
#2	46110	--	--	--	--	--	--
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Method:	20076010	Sample Name:	600-53514-a-4-e msd	Operator:	DCL		
Run Time:	04/24/12 12:29:13						
Comment:	TRACE 61E						
Mode:	CONC	Corr. Factor:	1				
Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265

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Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	311.01	.26165	.89956	3.4915	.41165	.60267	.38871
SDev	1.04	.00063	.00145	.0102	.00140	.00165	.00131
%RSD	.33436	.24089	.16121	.29108	.33954	.27375	.33637
#1	311.74	.26210	.90058	3.4987	.41264	.60384	.38963
#2	310.27	.26121	.89853	3.4843	.41066	.60151	.38778
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	669.44	1.0715	.91298	1.0643	337.38	.85494	1.0515
SDev	1.75	.0031	.00315	.0043	.89	.00237	.0065
%RSD	.26118	.28560	.34503	.40216	.26493	.27741	.61688
#1	670.67	1.0736	.91521	1.0673	338.01	.85662	1.0560
#2	668.20	1.0693	.91075	1.0612	336.75	.85327	1.0469
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.71183	130.62	13.278	.66183	1.0420	52.112	12.324
Analysis Report				04/24/12 12:33:07 PM		page 23	
SDev	.00022	.46	.038	.00138	.0002	.120	.034
%RSD	.03039	.34952	.28358	.20864	.01512	.23035	.27785
#1	.71168	130.94	13.305	.66280	1.0421	52.197	12.349
#2	.71199	130.30	13.252	.66085	1.0419	52.027	12.300
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.44800	29.588	30.715	1.4091	.84485	.72926	.60188
SDev	.00056	.043	.083	.0037	.00414	.00259	.00182
%RSD	.12462	.14463	.26910	.26201	.48950	.35463	.30304
#1	.44840	29.558	30.774	1.4117	.84778	.73109	.60317
#2	.44761	29.618	30.657	1.4065	.84193	.72743	.60059
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.3686	1.4146	.97011	1.0921	.64699	.74426	
SDev	.0038	.0042	.00447	.0075	.00036	.00051	
%RSD	.27844	.29370	.46075	.68623	.05583	.06787	
#1	1.3713	1.4176	.97327	1.0974	.64724	.74390	
#2	1.3659	1.4117	.96695	1.0868	.64673	.74461	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	45387	--	--	--	--	--	--
SDev	16.97056	--	--	--	--	--	--
%RSD	.0373908	--	--	--	--	--	--
#1	45375	--	--	--	--	--	--
#2	45399	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53514-a-5-b Operator: DCL  
Run Time: 04/24/12 12:33:11  
Comment: TRACE 61E

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Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	86.447	.00455	.01849	1.2596	.00552	.03333	-.00331
SDev	.393	.00344	.00172	.0048	.00002	.00055	.00015
%RSD	.45430	75.611	9.3233	.38310	.38753	1.6376	4.4713

#1	86.724	.00698	.01727	1.2630	.00554	.03372	-.00321
#2	86.169	.00212	.01971	1.2561	.00551	.03295	-.00342

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.372	.09956	.03438	.04271	97.521	.08071	.05652
SDev	.113	.00034	.00050	.00052	.353	.00033	.00026
%RSD	.44493	.34184	1.4592	1.2086	.36247	.40709	.46028

#1	25.451	.09980	.03473	.04307	97.771	.08094	.05634
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Analysis Report

04/24/12 12:37:06 PM

page 24

#2	25.292	.09932	.03402	.04234	97.271	.08048	.05671
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Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00176	25.663	1.5635	.00264	.10240	10.545	12.159
SDev	.00195	.125	.0064	.00180	.00035	.043	.063
%RSD	111.13	.48776	.40781	68.225	.34437	.40481	.52028

#1	-.00314	25.752	1.5680	.00392	.10265	10.575	12.204
#2	-.00038	25.575	1.5590	.00137	.10215	10.515	12.115

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00103	1.9848	2.0765	.16637	-.00078	.02733	.29391
SDev	.00054	.1846	.0076	.00057	.00181	.00226	.00139
%RSD	52.798	9.3023	.36690	.34112	231.20	8.2508	.47381

#1	-.00064	2.1154	2.0819	.16677	-.00206	.02893	.29489
#2	-.00141	1.8542	2.0712	.16597	.00050	.02574	.29292

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15208	.19516	.05139	.05909	-.00916	.00194
SDev	.00055	.00116	.00012	.00045	.00379	.00104
%RSD	.36324	.59264	.22427	.75797	41.365	53.287

#1	.15247	.19598	.05147	.05877	-.01184	.00121
#2	.15168	.19434	.05131	.05941	-.00648	.00268

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	41437	--	--	--	--	--	--
SDev	128.6934	--	--	--	--	--	--
%RSD	.3105761	--	--	--	--	--	--

#1	41346	--	--	--	--	--	--
#2	41528	--	--	--	--	--	--



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Method: 20076010 Sample Name: CCV met0412ccv\_00004 Operator: DCL  
 Run Time: 04/24/12 12:37:09  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	2.4623	.51073	.50189	.51294	.47490	.50943	.51994
SDev	.0054	.00107	.00163	.00044	.00076	.00089	.00077
%RSD	.22093	.20978	.32454	.08675	.15907	.17400	.14811

#1	2.4662	.50997	.50304	.51326	.47543	.51005	.52049
#2	2.4585	.51148	.50074	.51263	.47436	.50880	.51940

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Analysis Report 04/24/12 12:41:05 PM page 25

Avgc	12.386	.47844	.47679	.48145	2.5999	.47722	.49438
SDev	.025	.00088	.00158	.00032	.0153	.00035	.00134
%RSD	.20585	.18280	.33120	.06636	.58760	.07403	.27029

#1	12.404	.47906	.47791	.48168	2.6107	.47747	.49344
#2	12.368	.47782	.47568	.48123	2.5891	.47697	.49533

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.48902	4.8260	.47632	.50685	.48593	12.625	.96684
SDev	.00326	.0066	.00069	.00137	.00156	.014	.00528
%RSD	.66701	.13604	.14568	.26948	.32029	.10970	.54652

#1	.48672	4.8306	.47681	.50588	.48703	12.615	.97058
#2	.49133	4.8214	.47583	.50781	.48483	12.635	.96310

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.24789	12.929	12.296	.25588	.54181	.48960	.50198
SDev	.00115	.056	.000	.00009	.00070	.00294	.00101
%RSD	.46466	.43641	.00038	.03471	.12947	.59995	.20187

#1	.24870	12.889	12.296	.25594	.54131	.49168	.50269
#2	.24707	12.969	12.296	.25582	.54230	.48752	.50126

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.48656	.51893	.46255	.51030	.45115	.50801
SDev	.00088	.00063	.00264	.00068	.00459	.00260
%RSD	.18092	.12055	.57030	.13432	1.0165	.51172

#1	.48719	.51937	.46068	.50982	.44791	.50617
#2	.48594	.51848	.46441	.51078	.45440	.50985

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	39418	--	--	--	--	--	--
SDev	111.7229	--	--	--	--	--	--
%RSD	.2834311	--	--	--	--	--	--

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#1	39497	--	--	--	--	--	--
#2	39339	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL  
 Run Time: 04/24/12 12:41:08  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06799	.00495	.00263	.00018	-.00054	.00210	-.00003
SDev	.00066	.00205	.00235	.00001	.00003	.00013	.00000
%RSD	.97501	41.373	89.281	5.8195	5.5087	6.1378	8.1186

Analysis Report 04/24/12 12:45:03 PM page 26

#1	.06752	.00640	.00430	.00019	-.00052	.00201	-.00003
#2	.06846	.00350	.00097	.00017	-.00056	.00219	-.00003

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00746	.00038	.00023	-.00294	.00404	.00035	.00084
SDev	.00020	.00015	.00054	.00018	.00345	.00010	.00028
%RSD	2.6506	40.577	235.36	6.0770	85.289	29.188	33.103

#1	-.00760	.00049	-.00015	-.00307	.00648	.00042	.00064
#2	-.00732	.00027	.00061	-.00282	.00160	.00028	.00103

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00076	.01837	.00017	.00236	-.00010	.11282	.00307
SDev	.00077	.00378	.00006	.00056	.00036	.02958	.00174
%RSD	101.21	20.555	35.921	23.492	345.87	26.215	56.814

#1	.00022	.02104	.00022	.00276	.00015	.13374	.00430
#2	.00131	.01570	.00013	.00197	-.00036	.09191	.00184

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00009	-.11221	.01189	-.00003	.00009	-.00009	.00013
SDev	.00026	.03516	.00146	.00002	.00005	.00037	.00006
%RSD	283.72	31.330	12.299	57.807	52.152	437.52	45.097

#1	-.00027	-.13707	.01292	-.00002	.00006	.00018	.00017
#2	.00009	-.08735	.01085	-.00005	.00012	-.00035	.00009

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00059	.00044	.00091	.00080	-.00231	.00230
SDev	.00001	.00003	.00216	.00066	.00060	.00146
%RSD	1.3486	6.7523	238.08	82.612	26.038	63.403

#1	.00060	.00046	-.00062	.00127	-.00189	.00127
#2	.00059	.00042	.00243	.00033	-.00274	.00333

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	38888	--	--	--	--	--	--

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SDev	217.0818	--	--	--	--	--	--
%RSD	.5582302	--	--	--	--	--	--
#1	38734	--	--	--	--	--	--
#2	39041	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53514-a-6-b Operator: DCL  
 Run Time: 04/24/12 12:45:06  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
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Analysis Report 04/24/12 12:49:00 PM page 27

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	199.21	.00605	.05281	4.1397	.01541	.04297	-.00852
SDev	.73	.00407	.00002	.0153	.00007	.00030	.00012
%RSD	.36594	67.299	.03606	.37031	.48388	.69587	1.3849

#1	199.73	.00317	.05280	4.1506	.01546	.04276	-.00843
#2	198.70	.00893	.05283	4.1289	.01536	.04318	-.00860

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	61.393	.19170	.11621	.15151	261.49	.20287	.16179
SDev	.281	.00063	.00057	.00117	1.26	.00071	.00032
%RSD	.45692	.32688	.49440	.77328	.48353	.34894	.20044

#1	61.592	.19214	.11661	.15233	262.39	.20337	.16156
#2	61.195	.19125	.11580	.15068	260.60	.20237	.16202

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00510	70.061	2.4263	.00230	.23185	22.981	11.748
SDev	.00239	.304	.0109	.00030	.00124	.084	.046
%RSD	46.801	.43454	.44793	13.081	.53660	.36703	.39377

#1	-.00341	70.277	2.4339	.00251	.23273	23.040	11.781
#2	-.00679	69.846	2.4186	.00209	.23097	22.921	11.716

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00307	9.3319	9.4569	.66646	-.00180	.03104	.26306
SDev	.00021	.1429	.0177	.00266	.00279	.00273	.00109
%RSD	6.6744	1.5310	.18692	.39928	155.04	8.7920	.41559

#1	-.00293	9.4329	9.4694	.66834	.00017	.03297	.26384
#2	-.00322	9.2309	9.4444	.66458	-.00377	.02911	.26229

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.32734	.44877	.14530	.17003	-.01389	-.00070
SDev	.00168	.00205	.00099	.00098	.00127	.00294
%RSD	.51237	.45748	.68129	.57718	9.1767	417.91

#1	.32853	.45022	.14600	.16934	-.01299	.00138
#2	.32616	.44732	.14460	.17073	-.01479	-.00278

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

file:///c:/tjadata/temp/a042412.TXT

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	42004	--	--	--	--	--	--
SDev	342.9468	--	--	--	--	--	--
%RSD	.8164525	--	--	--	--	--	--
#1	41762	--	--	--	--	--	--
#2	42247	--	--	--	--	--	--

04/24/12 12:52:57 PM

page 28

Method: 20076010 Sample Name: 600-53514-a-7-b Operator: DCL  
 Run Time: 04/24/12 12:49:03  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	175.37	.00574	.06139	2.8941	.01637	.02923	-.00716
SDev	.42	.00264	.00038	.0053	.00004	.00005	.00002
%RSD	.23676	45.896	.61462	.18469	.21831	.16839	.25843

#1	175.67	.00388	.06112	2.8979	.01639	.02927	-.00715
#2	175.08	.00761	.06166	2.8903	.01634	.02920	-.00717

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	47.393	.17585	.14646	.14209	213.81	.14986	.25435
SDev	.108	.00001	.00036	.00026	.41	.00021	.00083
%RSD	.22791	.00319	.24862	.18252	.18957	.14291	.32724

#1	47.469	.17585	.14672	.14227	214.10	.15001	.25494
#2	47.316	.17585	.14621	.14191	213.52	.14971	.25376

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00799	54.442	7.1213	.00211	.19877	16.121	10.685
SDev	.00068	.151	.0158	.00042	.00100	.044	.029
%RSD	8.4526	.27827	.22142	19.943	.50366	.27026	.26743

#1	-.00751	54.549	7.1324	.00181	.19948	16.152	10.705
#2	-.00846	54.335	7.1101	.00241	.19806	16.090	10.665

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00447	9.9823	9.8340	.54429	-.00435	.02487	.17390
SDev	.00036	.0420	.0193	.00091	.00351	.00097	.00034
%RSD	8.0926	.42034	.19616	.16692	80.810	3.9214	.19624

#1	-.00422	10.012	9.8477	.54493	-.00186	.02556	.17414
#2	-.00473	9.9526	9.8204	.54365	-.00683	.02418	.17366

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.43895	.31422	.23218	.26543	-.02194	-.00101
SDev	.00092	.00089	.00083	.00083	.00223	.00213
%RSD	.20838	.28395	.35703	.31421	10.152	210.74

#1	.43960	.31485	.23277	.26602	-.02351	.00049
#2	.43830	.31359	.23160	.26484	-.02036	-.00251

file:///c:/tjadata/temp/a042412.TXT

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	45619	--	--	--	--	--	--
SDev	53.74012	--	--	--	--	--	--
%RSD	.1178021	--	--	--	--	--	--

Analysis Report 04/24/12 12:52:57 PM page 29

#1	45581	--	--	--	--	--	--
#2	45657	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-53514-a-8-b Operator: DCL  
 Run Time: 04/24/12 12:53:00  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	329.35	.01021	.09444	12.962	.01981	.12732	-.01089
SDev	.79	.00110	.00049	.031	.00003	.00052	.00004
%RSD	.23903	10.807	.51450	.23680	.16998	.40722	.33679

#1	329.90	.01099	.09479	12.983	.01984	.12769	-.01092
#2	328.79	.00943	.09410	12.940	.01979	.12695	-.01087

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	307.83	.31793	.16027	.23018	383.60	.36586	.16240
SDev	1.00	.00081	.00109	.00019	1.21	.00070	.00101
%RSD	.32392	.25372	.67747	.08418	.31489	.19129	.62066

#1	308.53	.31850	.16104	.23032	384.45	.36635	.16311
#2	307.12	.31736	.15950	.23005	382.75	.36537	.16169

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01411	139.04	6.9089	.00591	.34342	49.576	12.550
SDev	.00166	.41	.0186	.00011	.00116	.084	.022
%RSD	11.767	.29138	.26969	1.9215	.33791	.16960	.17467

#1	-.01528	139.33	6.9220	.00599	.34424	49.635	12.566
#2	-.01294	138.76	6.8957	.00583	.34260	49.516	12.535

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00391	25.694	26.009	1.1101	.00245	.03181	.44450
SDev	.00031	.224	.035	.0022	.00261	.00139	.00085
%RSD	7.8392	.87060	.13331	.19461	106.23	4.3693	.19155

#1	-.00369	25.852	26.033	1.1117	.00430	.03083	.44510
#2	-.00413	25.536	25.984	1.1086	.00061	.03279	.44390

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51029	.74988	.13927	.17396	-.02110	-.01061
SDev	.00140	.00184	.00275	.00014	.00729	.00613
%RSD	.27464	.24531	1.9741	.07888	34.533	57.801

#1	.51128	.75118	.14121	.17406	-.01595	-.01495
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file:///c:/tjadata/temp/a042412.TXT

#2	.50930	.74858	.13733	.17387	-.02626	-.00627	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Analysis Report				04/24/12 12:56:53 PM	page 30		
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	42208	--	--	--	--	--	--
SDev	197.9899	--	--	--	--	--	--
%RSD	.4690815	--	--	--	--	--	--
#1	42068	--	--	--	--	--	--
#2	42348	--	--	--	--	--	--
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Method:	20076010	Sample Name:	600-53514-a-9-b	Operator:	DCL		
Run Time:	04/24/12 12:56:56						
Comment:	TRACE 61E						
Mode:	CONC	Corr. Factor:	1				
Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	298.52	.00800	.05793	24.921	.01705	.11691	-.00747
SDev	.91	.00384	.00325	.070	.00004	.00056	.00002
%RSD	.30621	47.996	5.6079	.27902	.25632	.48361	.31133
#1	299.17	.00529	.05563	24.970	.01708	.11731	-.00749
#2	297.87	.01072	.06022	24.872	.01702	.11651	-.00746
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	482.10	.27216	.07799	.17499	295.96	.35696	.10066
SDev	2.11	.00098	.00044	.00072	.85	.00075	.00048
%RSD	.43812	.35956	.56386	.40982	.28693	.21075	.47408
#1	483.60	.27285	.07830	.17550	296.56	.35749	.10032
#2	480.61	.27147	.07768	.17449	295.35	.35643	.10100
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01132	133.63	2.8276	.00230	.27130	46.165	12.449
SDev	.00033	.51	.0101	.00150	.00083	.103	.031
%RSD	2.9173	.37869	.35664	65.136	.30473	.22373	.24697
#1	-.01155	133.98	2.8348	.00336	.27188	46.238	12.471
#2	-.01108	133.27	2.8205	.00124	.27071	46.092	12.427
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00359	14.363	15.072	1.3595	.00181	.02903	.46774
SDev	.00036	.005	.022	.0036	.00278	.00214	.00175
%RSD	10.082	.03434	.14471	.26114	153.48	7.3610	.37478
#1	-.00333	14.360	15.087	1.3620	.00378	.03054	.46898
#2	-.00385	14.367	15.056	1.3570	-.00015	.02751	.46650
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.37615	.63414	.08479	.10860	-.01844	-.00776	
SDev	.00156	.00153	.00008	.00067	.00124	.00013	



file:///c:/tjadata/temp/a042412.TXT

%RSD	.41577	.24119	.09798	.62091	6.7323	1.6159
#1	.37725	.63522	.08473	.10812	-.01932	-.00767

Analysis Report

04/24/12 01:00:51 PM

page 31

#2	.37504	.63306	.08485	.10907	-.01756	-.00785
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IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	42737	--	--	--	--	--	--
SDev	315.3696	--	--	--	--	--	--
%RSD	.7379311	--	--	--	--	--	--

#1	42514	--	--	--	--	--	--
#2	42960	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53514-a-10-c Operator: DCL

Run Time: 04/24/12 13:00:54

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	146.18	.00661	.04715	1.7760	.00537	.02466	-.00454
SDev	.40	.00034	.00097	.0055	.00003	.00029	.00001
%RSD	.27339	5.1279	2.0500	.31244	.48393	1.1749	.23119

#1	146.46	.00685	.04647	1.7799	.00539	.02487	-.00455
#2	145.90	.00637	.04783	1.7721	.00535	.02446	-.00454

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	200.80	.10602	.04914	.09596	141.34	.10342	.19785
SDev	.74	.00054	.00008	.00060	.51	.00027	.00112
%RSD	.36838	.50994	.16169	.62552	.36138	.25761	.56849

#1	201.33	.10640	.04920	.09638	141.70	.10361	.19865
#2	200.28	.10563	.04909	.09553	140.98	.10323	.19706

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00520	37.451	1.7415	.00312	.10170	14.878	11.983
SDev	.00054	.141	.0059	.00038	.00084	.048	.033
%RSD	10.461	.37715	.33840	12.138	.82539	.31990	.27758

#1	-.00559	37.550	1.7457	.00339	.10230	14.912	12.006
#2	-.00482	37.351	1.7374	.00285	.10111	14.845	11.959

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00276	11.210	11.299	.49028	-.00606	.02856	.19130
SDev	.00006	.095	.013	.00118	.00545	.00159	.00080
%RSD	2.1247	.84989	.11824	.23965	89.856	5.5725	.42024

#1	-.00272	11.277	11.309	.49111	-.00221	.02968	.19186
#2	-.00280	11.142	11.290	.48944	-.00991	.02743	.19073

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm

file:///c:/tjadata/temp/a042412.TXT

Avg	.24711	.23821	.17770	.20793	-.01306	-.00127	
Analysis Report				04/24/12 01:04:50 PM	page 32		
SDev	.00118	.00111	.00187	.00075	.00385	.00111	
%RSD	.47667	.46561	1.0540	.36103	29.517	87.174	
#1	.24795	.23899	.17902	.20846	-.01578	-.00049	
#2	.24628	.23742	.17638	.20740	-.01033	-.00206	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	40156	--	--	--	--	--	--
SDev	180.3122	--	--	--	--	--	--
%RSD	.4490350	--	--	--	--	--	--
#1	40028	--	--	--	--	--	--
#2	40283	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-53514-a-11-b Operator: DCL  
Run Time: 04/24/12 13:04:53  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	170.94	.00470	.03315	1.8176	.01402	.03421	-.00523
SDev	.56	.00162	.00289	.0054	.00005	.00043	.00017
%RSD	.32985	34.570	8.7122	.29773	.32631	1.2546	3.2101
#1	171.34	.00355	.03111	1.8214	.01405	.03451	-.00511
#2	170.54	.00585	.03519	1.8138	.01399	.03391	-.00534
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	52.852	.12632	.06464	.11384	156.24	.09733	.14073
SDev	.194	.00027	.00063	.00025	.57	.00032	.00028
%RSD	.36613	.21724	.98149	.22270	.36172	.32642	.19779
#1	52.989	.12652	.06509	.11402	156.64	.09756	.14093
#2	52.716	.12613	.06419	.11367	155.84	.09711	.14054
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00460	58.538	3.7598	.00127	.13422	17.893	10.560
SDev	.00108	.206	.0132	.00071	.00151	.050	.036
%RSD	23.505	.35237	.35209	55.656	1.1258	.28046	.34237
#1	-.00536	58.684	3.7692	.00177	.13528	17.929	10.586
#2	-.00383	58.392	3.7505	.00077	.13315	17.858	10.535
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00405	17.708	17.324	.67118	-.00094	.02489	.15795
SDev	.00051	.152	.039	.00198	.00477	.00011	.00049
%RSD	12.650	.85751	.22681	.29574	505.73	.44044	.30758
#1	-.00369	17.816	17.352	.67258	.00243	.02497	.15829
#2	-.00442	17.601	17.297	.66977	-.00432	.02482	.15760



file:///c:/tjadata/temp/a042412.TXT

Analysis Report

04/24/12 01:08:48 PM

page 33

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20851	.35634	.12248	.14986	-.01154	-.00113
SDev	.00066	.00135	.00127	.00022	.00521	.00099
%RSD	.31835	.37785	1.0356	.14459	45.189	87.441

#1	.20897	.35730	.12338	.14971	-.01522	-.00043
#2	.20804	.35539	.12159	.15001	-.00785	-.00182

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	46996	--	--	--	--	--	--
SDev	123.0366	--	--	--	--	--	--
%RSD	.2618022	--	--	--	--	--	--

#1	46909	--	--	--	--	--	--
#2	47083	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53514-a-12-b Operator: DCL  
 Run Time: 04/24/12 13:08:52  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	311.10	.00848	.08293	.91403	.01873	.11509	-.00999
SDev	1.11	.00079	.00050	.00418	.00006	.00021	.00016
%RSD	.35665	9.2896	.60174	.45733	.29669	.18234	1.5581

#1	311.89	.00792	.08257	.91698	.01877	.11495	-.00988
#2	310.32	.00904	.08328	.91107	.01869	.11524	-.01010

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	392.12	.30044	.09119	.22096	350.75	.36804	.13747
SDev	.65	.00114	.00031	.00127	.98	.00169	.00255
%RSD	.16660	.37928	.33962	.57313	.27917	.45850	1.8543

#1	392.58	.30124	.09097	.22185	351.44	.36923	.13567
#2	391.66	.29963	.09141	.22006	350.06	.36685	.13927

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01159	140.79	3.8123	.00310	.29940	46.558	12.349
SDev	.00019	.32	.0095	.00114	.00150	.177	.043
%RSD	1.6021	.22554	.24985	36.786	.49968	.38078	.34994

#1	-.01146	141.01	3.8190	.00391	.30046	46.683	12.380
#2	-.01172	140.57	3.8056	.00230	.29834	46.432	12.319

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00475	14.893	15.827	.91658	.00582	.03272	.50091
SDev	.00062	.024	.089	.00355	.00392	.00424	.00174

Analysis Report

04/24/12 01:12:46 PM

page 34

file:///c:/tjadata/temp/a042412.TXT

%RSD	13.144	.16390	.55999	.38744	67.422	12.953	.34720
#1	-.00520	14.876	15.889	.91909	.00859	.03572	.50214
#2	-.00431	14.911	15.764	.91407	.00304	.02973	.49968
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.49215	.67708	.11970	.14635	-.01388	-.01044	
SDev	.00162	.00207	.00046	.00405	.01111	.00528	
%RSD	.32918	.30551	.38264	2.7690	80.054	50.528	

#1	.49330	.67854	.12002	.14349	-.00602	-.01418	
#2	.49100	.67562	.11938	.14922	-.02174	-.00671	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	43099	--	--	--	--	--	--
SDev	135.7645	--	--	--	--	--	--
%RSD	.3150062	--	--	--	--	--	--
#1	43195	--	--	--	--	--	--
#2	43003	--	--	--	--	--	--

Method: 20076010 Sample Name: PDS 600-53429-a-6-c Operator: DCL  
 Run Time: 04/24/12 13:12:50  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	214.58	.92754	.95297	2.7532	.42631	.98327	.44215
SDev	5.16	.02417	.02441	.0633	.00998	.01881	.00991
%RSD	2.4051	2.6053	2.5615	2.2981	2.3416	1.9133	2.2407

#1	218.23	.94463	.97023	2.7980	.43337	.99658	.44915
#2	210.93	.91046	.93571	2.7085	.41925	.96997	.43514

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	185.76	1.0241	.91839	1.0655	220.51	1.2253	1.1612
SDev	4.34	.0253	.02156	.0245	5.33	.0258	.0269
%RSD	2.3355	2.4718	2.3473	2.3013	2.4189	2.1018	2.3126

#1	188.83	1.0420	.93363	1.0828	224.29	1.2435	1.1801
#2	182.69	1.0062	.90315	1.0481	216.74	1.2071	1.1422

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.82885	88.784	5.1996	.90114	1.0538	38.294	12.425
SDev	.02472	2.122	.1231	.01845	.0247	.808	.288
%RSD	2.9824	2.3902	2.3673	2.0478	2.3467	2.1100	2.3155

#1	.84633	90.285	5.2866	.91419	1.0713	38.865	12.629
#2	.81137	87.283	5.1126	.88809	1.0364	37.722	12.222

Analysis Report

04/24/12 01:16:45 PM

page 35

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
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file:///c:/tjadata/temp/a042412.TXT

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.45701	27.418	27.927	1.1047	.95592	.88561	1.2242
SDev	.00990	.666	.542	.0252	.01810	.01748	.0297
%RSD	2.1665	2.4282	1.9423	2.2781	1.8932	1.9737	2.4250
#1	.46401	27.889	28.311	1.1225	.96872	.89797	1.2452
#2	.45001	26.948	27.543	1.0869	.94313	.87325	1.2032
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.1676	1.3634	1.0658	1.2088	.75452	.86601	
SDev	.0279	.0310	.0253	.0276	.01972	.02722	
%RSD	2.3899	2.2738	2.3778	2.2839	2.6136	3.1431	
#1	1.1874	1.3853	1.0837	1.2284	.76847	.88526	
#2	1.1479	1.3415	1.0479	1.1893	.74058	.84676	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	41130	--	--	--	--	--	--
SDev	859.8419	--	--	--	--	--	--
%RSD	2.090547	--	--	--	--	--	--
#1	40522	--	--	--	--	--	--
#2	41738	--	--	--	--	--	--

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Method: 20076010 Sample Name: SD 600-53429-a-6-c@5 Operator: DCL  
Run Time: 04/24/12 13:16:48  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	46.211	.00421	.01342	.40842	.00248	.01380	-.00163
SDev	.080	.00475	.00142	.00022	.00003	.00098	.00006
%RSD	.17397	112.97	10.589	.05483	1.3254	7.1148	3.4662
#1	46.268	.00757	.01443	.40857	.00251	.01450	-.00167
#2	46.154	.00085	.01242	.40826	.00246	.01311	-.00159
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	41.686	.04069	.02196	.03618	48.021	.04557	.06668
SDev	.117	.00028	.00004	.00081	.100	.00020	.00065
%RSD	.28084	.69967	.17533	2.2307	.20721	.43142	.96964
#1	41.769	.04089	.02199	.03675	48.092	.04571	.06714
#2	41.603	.04049	.02193	.03560	47.951	.04543	.06622
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00005	18.286	1.0135	.00332	.04965	5.7666	2.6384
SDev	.00294	.042	.0020	.00082	.00047	.0300	.0091
%RSD	6306.6	.23193	.19376	24.645	.95425	.52071	.34475

Analysis Report

04/24/12 01:20:38 PM

page 36

#1	-.00203	18.316	1.0149	.00389	.04931	5.7878	2.6449
#2	.00212	18.256	1.0122	.00274	.04998	5.7453	2.6320

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Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00121	3.3645	3.4260	.14156	.00008	.00623	.07499
SDev	.00047	.0489	.0039	.00006	.00044	.00093	.00023
%RSD	38.328	1.4520	.11339	.04176	572.47	15.001	.30864

#1	-.00154	3.3300	3.4233	.14161	.00039	.00557	.07515
#2	-.00088	3.3991	3.4288	.14152	-.00023	.00689	.07482

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.06998	.10491	.06002	.07001	-.00879	.00446
SDev	.00066	.00020	.00059	.00068	.00010	.00436
%RSD	.94434	.18957	.97848	.96585	1.0877	97.638

#1	.07044	.10505	.06044	.07048	-.00885	.00138
#2	.06951	.10477	.05961	.06953	-.00872	.00754

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	38884	--	--	--	--	--	--
SDev	176.0696	--	--	--	--	--	--
%RSD	.4528131	--	--	--	--	--	--

#1	38759	--	--	--	--	--	--
#2	39008	--	--	--	--	--	--

Analysis Report

04/24/12 01:25:23 PM

page 1

Method: 20076010 Sample Name: 600-53894-a-1-c Operator: DCL  
 Run Time: 04/24/12 13:21:35  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	6.4571	k.19149	.23007	1.1907	-.00107	.02583	k.23375
SDev	.0134	.00502	.00517	.0032	.00001	.00140	.00048
%RSD	.20742	2.6222	2.2455	.26471	.75948	5.4042	.20590

#1	6.4666	k.18794	.22642	1.1929	-.00108	.02485	k.23409
#2	6.4476	k.19504	.23372	1.1885	-.00106	.02682	k.23341

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	34.694	1.5319	.44953	k1.6217	S813.72	.03352	k.27284
SDev	.076	.0011	.00263	.0031	2.09	.00010	.00028
%RSD	.21951	.07047	.58437	.19247	.25695	.30031	.10384

#1	34.640	1.5326	.45139	k1.6239	S815.20	.03359	k.27264
#2	34.748	1.5311	.44767	k1.6195	S812.24	.03345	k.27304

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	k-.81807	23.395	25.388	.19644	1.0928	1.3169	11.490
SDev	.00252	.031	.037	.00371	.0119	.0134	.119
%RSD	.30792	.13219	.14434	1.8905	1.0885	1.0195	1.0385

#1	k-.81629	23.417	25.413	.19906	1.1012	1.3264	11.406
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#2	k-.81985	23.373	25.362	.19381	1.0844	1.3074	11.574
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.01707	17.725	16.940	.65659	k.21137	.20309	.51608
SDev	.00034	.003	.088	.00143	.01326	.00662	.00065
%RSD	2.0042	.01567	.51786	.21717	6.2748	3.2608	.12631

#1	-.01683	17.723	17.002	.65760	k.22074	.20777	.51654
#2	-.01731	17.727	16.878	.65558	k.20199	.19841	.51562

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	.31327	k2.2536	k.37398	k.22227	k-.22604	k-1.1141	
SDev	.00002	.0016	.00064	.00075	.00350	.0020	
%RSD	.00533	.07257	.17092	.33499	1.5495	.18197	

#1	.31325	k2.2547	k.37443	k.22175	k-.22356	k-1.1127	
#2	.31328	k2.2524	k.37353	k.22280	k-.22851	k-1.1155	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	36090	--	--	--	--	--	--
SDev	27.57716	--	--	--	--	--	--
%RSD	.0764133	--	--	--	--	--	--

Analysis Report

04/24/12 01:25:23 PM

page 2

#1	36070	--	--	--	--	--	--
#2	36109	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met0412ccv\_00004 Operator: DCL

Run Time: 04/24/12 13:25:26

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	2.5094	.52150	.51129	.53100	.47228	.52201	.53339
SDev	.0218	.00503	.00030	.00297	.00193	.00405	.00226
%RSD	.86778	.96501	.05860	.55983	.40787	.77642	.42408

#1	2.5248	.52506	.51108	.53310	.47364	.52488	.53499
#2	2.4940	.51795	.51150	.52890	.47092	.51915	.53179

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	12.498	.48063	.48078	.48665	2.8736	.49485	.50022
SDev	.043	.00215	.00203	.00387	.0900	.00290	.00285
%RSD	.34209	.44674	.42307	.79463	3.1330	.58627	.56921

#1	12.528	.48215	.48222	.48939	2.9373	.49690	.50224
#2	12.467	.47911	.47934	.48392	2.8099	.49280	.49821

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.49484	4.8449	.48420	.51395	.49024	13.093	1.0289
SDev	.00240	.0178	.00237	.00194	.00189	.080	.0305

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%RSD	.48506	.36815	.48858	.37845	.38641	.61066	2.9657
#1	.49654	4.8575	.48588	.51533	.49158	13.149	1.0505
#2	.49314	4.8323	.48253	.51258	.48890	13.036	1.0074
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25330	13.067	12.795	.26458	.55573	.49207	.51031
SDev	.00115	.017	.134	.00138	.00099	.00059	.00224
%RSD	.45372	.13350	1.0469	.52326	.17751	.11893	.43808
#1	.25411	13.054	12.890	.26556	.55503	.49248	.51189
#2	.25249	13.079	12.701	.26360	.55643	.49165	.50873
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.49086	.53199	.46160	.51954	.45421	.51515	
SDev	.00271	.00277	.00356	.00249	.00561	.00080	
%RSD	.55267	.52020	.77016	.47994	1.2344	.15474	
#1	.49278	.53395	.46411	.52130	.45818	.51572	
#2	.48894	.53004	.45908	.51777	.45025	.51459	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Analysis Report				04/24/12 01:29:14 PM		page 3	
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38541	--	--	--	--	--	--
SDev	152.7351	--	--	--	--	--	--
%RSD	.3962924	--	--	--	--	--	--
#1	38649	--	--	--	--	--	--
#2	38433	--	--	--	--	--	--

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Method: 20076010 Sample Name: CCB Operator: DCL  
Run Time: 04/24/12 13:29:18  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08276	.00265	.00129	.00007	-.00070	.00080	-.00005
SDev	.00312	.00110	.00137	.00006	.00001	.00056	.00001
%RSD	3.7684	41.364	106.53	87.441	.72830	69.739	22.786
#1	.08056	.00187	.00032	.00003	-.00070	.00119	-.00005
#2	.08497	.00342	.00226	.00011	-.00070	.00040	-.00006
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01074	.00017	.00005	-.00369	.03369	.00044	-.00000
SDev	.00038	.00056	.00027	.00061	.03003	.00015	.00042
%RSD	3.5473	339.22	593.65	16.621	89.146	34.767	9840.9
#1	-.01047	-.00023	-.00015	-.00413	.01245	.00033	.00030
#2	-.01101	.00056	.00024	-.00326	.05492	.00055	-.00030
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881



file:///c:/tjadata/temp/a042412.TXT

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00306	.01165	.00022	.00175	.00087	.09772	.01414
SDev	.00154	.01375	.00021	.00012	.00062	.09446	.00240
%RSD	50.199	118.04	94.945	7.0412	71.859	96.666	16.985
#1	.00415	.00193	.00007	.00184	.00043	.03093	.01584
#2	.00197	.02137	.00037	.00167	.00131	.16452	.01244
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00016	-.05050	.01218	-.00007	-.00220	.00016	.00007
SDev	.00112	.16102	.00643	.00001	.00349	.00016	.00011
%RSD	694.88	318.84	52.809	13.978	158.66	98.980	146.77
#1	-.00095	-.16436	.00763	-.00006	.00027	.00027	-.00000
#2	.00063	.06335	.01672	-.00007	-.00467	.00005	.00015
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00016	.00060	.00054	-.00028	.00164	.00377	
SDev	.00061	.00003	.00064	.00031	.00439	.00011	
%RSD	377.95	5.0315	119.48	113.76	267.06	2.9639	
#1	-.00027	.00058	.00099	-.00005	.00475	.00385	
Analysis Report				04/24/12 01:33:06 PM		page 4	
#2	.00059	.00062	.00008	-.00050	-.00146	.00369	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38577	--	--	--	--	--	--
SDev	504.8742	--	--	--	--	--	--
%RSD	1.308744	--	--	--	--	--	--
#1	38934	--	--	--	--	--	--
#2	38220	--	--	--	--	--	--

Analysis Report 04/24/12 03:41:16 PM page 1

Method: 20076010 Sample Name: mb 600-77850/1-a Operator: DCL  
Run Time: 04/24/12 15:37:28  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12178	.00381	.00168	.00615	-.00104	-.00038	.00009
SDev	.00525	.00214	.00145	.00007	.00002	.00002	.00008
%RSD	4.3122	56.208	85.984	1.1130	1.9205	5.8212	88.087
#1	.12550	.00533	.00271	.00620	-.00105	-.00040	.00015
#2	.11807	.00230	.00066	.00611	-.00103	-.00036	.00003
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25905	.00072	.00061	-.00355	.05204	.00114	.00170
SDev	.02082	.00059	.00058	.00049	.02466	.00012	.00079
%RSD	8.0393	82.064	95.589	13.686	47.395	10.300	46.517



file:///c:/tjadata/temp/a042412.TXT

#1	.27377	.00114	.00101	-.00321	.06948	.00123	.00114
#2	.24432	.00030	.00020	-.00390	.03460	.00106	.00227
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00061	.07124	.00020	.00054	.00040	.40331	.00108
SDev	.00421	.01141	.00005	.00033	.00018	.04747	.00423
%RSD	685.95	16.010	22.701	60.830	45.600	11.769	392.72
#1	.00359	.07931	.00024	.00031	.00053	.43687	.00407
#2	-.00236	.06318	.00017	.00078	.00027	.36975	-.00191
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00106	.30974	.04233	.00012	-.00435	.02932	.00037
SDev	.00111	.16853	.00346	.00005	.00154	.00019	.00010
%RSD	103.85	54.408	8.1739	39.848	35.357	.65857	26.039
#1	.00185	.42891	.04477	.00016	-.00326	.02946	.00043
#2	.00028	.19058	.03988	.00009	-.00544	.02918	.00030
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00010	.00523	.00464	.00024	-.00657	.00421	
SDev	.00044	.00067	.00145	.00191	.00577	.00343	
%RSD	434.55	12.875	31.190	805.69	87.806	81.551	
#1	.00041	.00570	.00566	-.00112	-.00249	.00663	
#2	-.00021	.00475	.00362	.00159	-.01065	.00178	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35861	--	--	--	--	--	--
SDev	359.2102	--	--	--	--	--	--
%RSD	1.001674	--	--	--	--	--	--

Analysis Report

04/24/12 03:41:16 PM

page 2

#1	35607	--	--	--	--	--	--
#2	36115	--	--	--	--	--	--

Method: 20076010 Sample Name: LCS 600-77850/2-A Operator: DCL  
Run Time: 04/24/12 15:41:19  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	82.372	.96925	1.3160	2.6518	1.3281	.86066	.70208
SDev	2.475	.02057	.0397	.0780	.0366	.02307	.01942
%RSD	3.0047	2.1221	3.0152	2.9433	2.7595	2.6807	2.7653
#1	84.122	.98380	1.3441	2.7070	1.3540	.87697	.71581
#2	80.622	.95471	1.2880	2.5966	1.3022	.84434	.68835
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm



file:///c:/tjadata/temp/a042412.TXT

Avge	91.306	.92572	1.2601	.98682	174.26	.08915	1.3194
SDev	2.590	.02701	.0367	.02892	5.07	.00251	.0292
%RSD	2.8365	2.9177	2.9115	2.9305	2.9113	2.8151	2.2154

#1	93.137	.94481	1.2861	1.0073	177.85	.09092	1.3401
#2	89.475	.90662	1.2342	.96637	170.68	.08737	1.2987

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.7620	37.610	4.8403	.90672	1.2231	48.856	3.2838
SDev	.0404	1.074	.1405	.02430	.0398	1.318	.0944
%RSD	2.2903	2.8544	2.9022	2.6800	3.2580	2.6976	2.8761

#1	1.7906	38.369	4.9396	.92390	1.2513	49.788	3.3506
#2	1.7335	36.851	4.7410	.88953	1.1949	47.924	3.2170

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.44194	3.0264	6.6023	2.5177	1.7523	1.5051	3.8636
SDev	.01311	.0968	.1769	.0757	.0376	.0434	.1119
%RSD	2.9675	3.1985	2.6801	3.0066	2.1462	2.8844	2.8954

#1	.45122	3.0948	6.7274	2.5712	1.7789	1.5358	3.9427
#2	.43267	2.9579	6.4771	2.4642	1.7257	1.4744	3.7845

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.59900	2.5359	1.2109	1.3737	1.6195	1.8333	
SDev	.01718	.0733	.0284	.0296	.0322	.0444	
%RSD	2.8687	2.8887	2.3449	2.1584	1.9876	2.4240	

#1	.61115	2.5877	1.2310	1.3946	1.6423	1.8647	
#2	.58685	2.4841	1.1909	1.3527	1.5968	1.8018	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report

04/24/12 03:45:07 PM

page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37698	--	--	--	--	--	--
SDev	869.7413	--	--	--	--	--	--
%RSD	2.307129	--	--	--	--	--	--

#1	37083	--	--	--	--	--	--
#2	38313	--	--	--	--	--	--

Method: 20076010 Sample Name: mb 600-77850/14-a Operator: DCL

Run Time: 04/24/12 15:45:10

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11123	.01592	.00201	.00128	-.00102	.00046	-.00009
SDev	.00106	.00438	.00054	.00000	.00001	.00033	.00001
%RSD	.95303	27.529	26.929	.18955	.90045	71.866	10.709

#1	.11048	.01902	.00240	.00128	-.00101	.00023	-.00010
#2	.11198	.01282	.00163	.00128	-.00103	.00069	-.00008

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Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.35150	.00036	-.00005	-.00393	.01799	.00078	.00153
SDev	.01879	.00019	.00038	.00007	.00052	.00002	.00065
%RSD	5.3457	53.596	757.32	1.8515	2.8999	2.3295	42.450

#1	.36478	.00022	.00022	-.00388	.01762	.00079	.00107
#2	.33821	.00050	-.00032	-.00398	.01835	.00076	.00198

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00466	.03626	.00029	.00219	-.00039	.25076	-.00177
SDev	.00096	.00129	.00004	.00153	.00031	.00561	.00091
%RSD	20.680	3.5527	14.560	69.975	81.260	2.2360	51.500

#1	.00534	.03717	.00026	.00328	-.00061	.25472	-.00113
#2	.00398	.03535	.00032	.00111	-.00016	.24679	-.00242

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00006	.10123	.10325	.00012	-.00263	-.00030	.00049
SDev	.00040	.11904	.00109	.00001	.00454	.00011	.00025
%RSD	623.45	117.59	1.0532	4.9428	172.33	36.960	50.383

#1	-.00035	.01706	.10248	.00012	.00058	-.00038	.00066
#2	.00022	.18541	.10402	.00011	-.00584	-.00022	.00031

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00036	.02871	.00536	-.00039	-.00075	.00737	
SDev	.00006	.00223	.00367	.00281	.00800	.00256	
%RSD	15.129	7.7720	68.525	715.17	1067.4	34.704	

#1	.00032	.03029	.00796	-.00238	.00491	.00556	
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Analysis Report

04/24/12 03:48:58 PM

page 4

#2	.00040	.02713	.00276	.00159	-.00641	.00917	
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IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	37274	--	--	--	--	--	--
SDev	118.0868	--	--	--	--	--	--
%RSD	.3168118	--	--	--	--	--	--

#1	37190	--	--	--	--	--	--
#2	37357	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53867-a-1-e Operator: DCL

Run Time: 04/24/12 15:49:01

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	904.13	.00699	.02044	1.1531	.00597	.19098	-.00502
SDev	2.68	.00304	.00111	.0026	.00000	.00175	.00053
%RSD	.29666	43.533	5.4140	.22759	.06742	.91480	10.568

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#1	906.03	.00484	.01966	1.1550	.00597	.19222	-.00464
#2	902.23	.00914	.02122	1.1513	.00596	.18974	-.00539
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	709.01	.67850	.04717	.28556	102.27	.37951	.08218
SDev	2.99	.00191	.00002	.00079	.38	.00099	.00277
%RSD	.42219	.28115	.03869	.27651	.37437	.26033	3.3762
#1	711.13	.67985	.04716	.28612	102.54	.38021	.08414
#2	706.89	.67715	.04719	.28500	102.00	.37881	.08021
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01317	11.530	1.0256	1.6101	.16616	23.336	2.4178
SDev	.00052	.037	.0029	.0012	.00041	.087	.0117
%RSD	3.9574	.32202	.28279	.07314	.24541	.37462	.48347
#1	-.01354	11.556	1.0277	1.6109	.16645	23.397	2.4095
#2	-.01280	11.504	1.0236	1.6092	.16588	23.274	2.4261
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00211	11.398	27.597	1.6401	.01668	.01333	15.735
SDev	.00024	.228	.075	.0040	.00588	.00579	.031
%RSD	11.291	1.9997	.27354	.24371	35.260	43.398	.19717
#1	-.00194	11.559	27.650	1.6429	.02084	.01742	15.756
#2	-.00227	11.237	27.544	1.6373	.01252	.00924	15.713
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.40175	1.2772	.11471	.06591	-.01597	-.01177	

Analysis Report

04/24/12 03:52:49 PM

page 5

SDev	.00113	.0040	.00143	.00488	.01155	.00499	
%RSD	.28087	.31151	1.2491	7.4015	72.325	42.423	
#1	.40255	1.2800	.11370	.06936	-.02414	-.00824	
#2	.40095	1.2744	.11573	.06246	-.00780	-.01530	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36182	--	--	--	--	--	--
SDev	104.6518	--	--	--	--	--	--
%RSD	.2892372	--	--	--	--	--	--
#1	36108	--	--	--	--	--	--
#2	36256	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53867-a-2-e Operator: DCL  
 Run Time: 04/24/12 15:52:52  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.3967	.31836	-.00264	.08743	.00067	.02544	-.00144
SDev	.0474	.00217	.00160	.00028	.00002	.00000	.00005



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%RSD	.74102	.68277	60.383	.31884	2.4730	.00137	3.2361	1
#1	6.4302	.31682	-.00151	.08763	.00066	.02544	-.00141	2
#2	6.3632	.31990	-.00377	.08723	.00069	.02544	-.00147	3
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203	4
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	5
Avg	1.7708	.03808	.69495	1.9486	22.198	.00753	.07128	6
SDev	.0196	.00012	.00214	.0089	.093	.00003	.00173	7
%RSD	1.1055	.31700	.30722	.45678	.42023	.40020	2.4318	8
#1	1.7847	.03816	.69646	1.9549	22.264	.00755	.07250	9
#2	1.7570	.03799	.69344	1.9423	22.132	.00751	.07005	10
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881	11
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	12
Avg	.00790	.21927	.21244	34.382	.37111	.04390	.91879	13
SDev	.00104	.00127	.00065	.061	.00171	.00965	.01055	14
%RSD	13.199	.57681	.30491	.17707	.46166	21.971	1.1479	15
#1	.00716	.22016	.21289	34.425	.37232	.03708	.92625	16
#2	.00864	.21837	.21198	34.339	.36990	.05072	.91133	17
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00132	-1.3936	.32648	.04836	-.00956	.00204	1.6958	
SDev	.00072	.0288	.00287	.00016	.00015	.00097	.0075	
%RSD	54.788	2.0635	.87862	.32372	1.5234	47.565	.44428	
#1	.00183	-1.4139	.32445	.04847	-.00966	.00273	1.7011	
#2	.00081	-1.3733	.32851	.04825	-.00946	.00136	1.6904	

Analysis Report 04/24/12 03:56:40 PM page 6

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	3.3144	.18107	.04161	.08611	-.00418	.01394	
SDev	.0106	.00073	.00158	.00339	.00141	.00086	
%RSD	.32045	.40110	3.7901	3.9350	33.650	6.1751	
#1	3.3219	.18159	.04050	.08851	-.00517	.01333	
#2	3.3069	.18056	.04273	.08372	-.00319	.01455	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	39724	--	--	--	--	--	--
SDev	57.27565	--	--	--	--	--	--
%RSD	.1441822	--	--	--	--	--	--
#1	39684	--	--	--	--	--	--
#2	39765	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53867-a-3-e Operator: DCL  
 Run Time: 04/24/12 15:56:43  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

file:///c:/tjadata/temp/a042412.TXT

Avge	7.7035	.82011	-.01490	.08566	.00233	.03185	-.00299
SDev	.0384	.00690	.00079	.00035	.00001	.00015	.00010
%RSD	.49786	.84085	5.3179	.40813	.26897	.46544	3.2926

#1	7.7306	.81523	-.01434	.08591	.00234	.03175	-.00292
#2	7.6763	.82499	-.01546	.08541	.00233	.03196	-.00306

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.6400	.04797	4.9904	4.5610	28.068	.00783	.08393
SDev	.0255	.00006	.0158	.0189	.206	.00004	.00101
%RSD	.45187	.12032	.31616	.41405	.73545	.54560	1.2036

#1	5.6581	.04801	5.0015	4.5744	28.214	.00786	.08322
#2	5.6220	.04793	4.9792	4.5477	27.922	.00780	.08464

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01477	.34798	.23040	70.968	2.6149	.00348	.98392
SDev	.00233	.00051	.00065	.175	.0140	.00011	.00659
%RSD	15.751	.14643	.28027	.24596	.53620	3.2860	.66991

#1	.01313	.34834	.23085	71.091	2.6248	.00356	.98858
#2	.01642	.34762	.22994	70.844	2.6050	.00340	.97926

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00679	-1.1889	.41227	.04913	-.01255	.00406	1.6415
SDev	.00109	.3392	.00248	.00018	.00174	.00136	.0070

Analysis Report

04/24/12 04:00:31 PM

page 7

%RSD	16.039	28.531	.60194	.37499	13.841	33.562	.42930
#1	-.00602	-.94908	.41402	.04926	-.01133	.00502	1.6465
#2	-.00756	-1.4288	.41051	.04900	-.01378	.00309	1.6365

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.2870	.44321	.02283	.11448	-.00073	.02252
SDev	.0266	.00181	.00072	.00188	.00022	.00360
%RSD	.36438	.40888	3.1599	1.6386	30.295	15.986

#1	7.3058	.44449	.02334	.11316	-.00057	.01998
#2	7.2683	.44193	.02232	.11581	-.00088	.02507

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	41094	--	--	--	--	--	--
SDev	77.07464	--	--	--	--	--	--
%RSD	.1875592	--	--	--	--	--	--

#1	41039	--	--	--	--	--	--
#2	41148	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53710-b-1-a Operator: DCL

Run Time: 04/24/12 16:00:35

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

file:///c:/tjadata/temp/a042412.TXT

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	91.479	.22637	.27161	.69252	.00572	.12407	.01140
SDev	.162	.00440	.00153	.00122	.00001	.00077	.00005
%RSD	.17663	1.9418	.56499	.17685	.09891	.62200	.46494

#1	91.593	.22947	.27270	.69339	.00573	.12352	.01143
#2	91.365	.22326	.27053	.69166	.00572	.12461	.01136

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1708.0	.24736	.06855	.67257	177.70	.09132	25.854
SDev	13.1	.00100	.00066	.00049	.72	.00013	.018
%RSD	.76733	.40563	.96143	.07219	.40598	.14404	.06772

#1	1717.3	.24807	.06902	.67291	178.21	.09142	25.866
#2	1698.7	.24665	.06809	.67223	177.19	.09123	25.842

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00274	21.658	4.1440	.15101	.33522	27.906	6.7491
SDev	.00084	.097	.0139	.05622	.00060	.051	.0170
%RSD	30.678	.44627	.33561	37.229	.17947	.18231	.25191

#1	-.00333	21.726	4.1539	.19076	.33479	27.942	6.7371
#2	-.00215	21.590	4.1342	.11126	.33564	27.870	6.7612

Analysis Report

04/24/12 04:04:23 PM

page 8

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00190	5.3651	6.4000	14.173	.01593	.08486	.52387
SDev	.00023	.0340	.0020	.027	.00439	.00263	.00175
%RSD	12.231	.63283	.03175	.19210	27.531	3.1009	.33402

#1	-.00173	5.3891	6.3985	14.192	.01903	.08672	.52511
#2	-.00206	5.3411	6.4014	14.153	.01283	.08299	.52263

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.63556	.91329	23.715	26.924	.00081	-.00452
SDev	.00264	.00352	.131	.039	.00312	.00030
%RSD	.41513	.38584	.55412	.14649	383.69	6.6479

#1	.63742	.91578	23.808	26.896	-.00139	-.00430
#2	.63369	.91079	23.622	26.952	.00302	-.00473

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39516	--	--	--	--	--	--
SDev	287.7924	--	--	--	--	--	--
%RSD	.7283027	--	--	--	--	--	--

#1	39312	--	--	--	--	--	--
#2	39719	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53710-b-1-b du Operator: DCL

Run Time: 04/24/12 16:04:26

Comment: TRACE 61E

file:///c:/tjadata/temp/a042412.TXT

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	103.81	.26228	.21823	.73049	.00624	.14695	.01024
SDev	.26	.00002	.00029	.00113	.00002	.00062	.00017
%RSD	.24776	.00765	.13154	.15521	.25976	.42190	1.7017

#1	104.00	.26226	.21802	.73130	.00625	.14651	.01011
#2	103.63	.26229	.21843	.72969	.00623	.14738	.01036

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1742.6	.28182	.06136	.54008	180.75	.09851	75.346
SDev	6.8	.00097	.00037	.00113	.34	.00026	.225
%RSD	.39249	.34255	.60177	.20991	.18565	.26001	.29885

#1	1747.4	.28250	.06163	.54089	180.98	.09869	75.505
#2	1737.7	.28113	.06110	.53928	180.51	.09833	75.187

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00147	24.376	4.2123	.08284	.31719	31.897	10.145
SDev	.00349	.069	.0082	.00537	.00102	.088	.105
%RSD	237.68	.28232	.19456	6.4813	.32217	.27456	1.0318

Analysis Report

04/24/12 04:08:15 PM

page 9

#1	.00100	24.424	4.2181	.08664	.31791	31.959	10.071
#2	-.00394	24.327	4.2065	.07904	.31646	31.835	10.219

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00108	6.1323	7.2904	14.479	.01378	.04394	.62381
SDev	.00063	.0657	.0216	.001	.00009	.00092	.00090
%RSD	57.739	1.0717	.29644	.00587	.63442	2.0899	.14379

#1	-.00064	6.1788	7.3057	14.478	.01372	.04459	.62445
#2	-.00153	6.0858	7.2752	14.479	.01384	.04329	.62318

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.70928	.81246	68.586	78.726	-.00154	-.00144
SDev	.00093	.00165	.311	.182	.00586	.00231
%RSD	.13160	.20362	.45407	.23122	381.22	160.81

#1	.70994	.81363	68.807	78.854	.00261	.00020
#2	.70862	.81129	68.366	78.597	-.00568	-.00307

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40640	--	--	--	--	--	--
SDev	139.3000	--	--	--	--	--	--
%RSD	.3427616	--	--	--	--	--	--

#1	40542	--	--	--	--	--
#2	40739	--	--	--	--	--

Method: 20076010 Sample Name: 600-53710-b-1-c ms Operator: DCL

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Run Time: 04/24/12 16:08:18

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	148.97	.46914	1.0408	1.6673	.35477	.92631	.38096
SDev	.07	.00273	.0005	.0004	.00027	.00162	.00003
%RSD	.04665	.58162	.04770	.02123	.07680	.17469	.00899

#1	149.02	.47107	1.0412	1.6676	.35497	.92517	.38099
#2	148.92	.46721	1.0405	1.6671	.35458	.92746	.38094

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	1712.0	1.0530	.76805	1.3301	206.80	.62938	12.267
SDev	3.7	.0013	.00067	.0001	.20	.00008	.002
%RSD	.21517	.12279	.08769	.01027	.09633	.01278	.01586

#1	1714.6	1.0539	.76852	1.3302	206.95	.62932	12.265
#2	1709.4	1.0521	.76757	1.3300	206.66	.62944	12.268

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
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Analysis Report

04/24/12 04:12:06 PM

page 10

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.73801	33.893	4.8364	.83616	1.0346	50.715	8.9819
SDev	.00304	.022	.0049	.00040	.0023	.006	.0567
%RSD	.41150	.06496	.10183	.04769	.22538	.01196	.63090

#1	.73587	33.909	4.8399	.83588	1.0362	50.711	8.9418
#2	.74016	33.878	4.8330	.83645	1.0329	50.719	9.0219

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.44872	16.707	19.646	14.963	.87547	.72974	1.1141
SDev	.00013	.036	.014	.013	.00565	.00394	.0005
%RSD	.02932	.21470	.07354	.08671	.64495	.54057	.04398

#1	.44882	16.733	19.636	14.954	.87148	.73253	1.1145
#2	.44863	16.682	19.656	14.972	.87946	.72695	1.1138

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	1.5530	1.6183	11.247	12.776	.68096	.76654
SDev	.0018	.0005	.027	.016	.00611	.00761
%RSD	.11626	.02875	.23846	.12780	.89689	.99265

#1	1.5543	1.6186	11.266	12.765	.68527	.76116
#2	1.5517	1.6180	11.228	12.788	.67664	.77192

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	41048	--	--	--	--	--	--
SDev	146.3711	--	--	--	--	--	--
%RSD	.3565896	--	--	--	--	--	--

#1	40944	--	--	--	--	--	--
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#2	41151	--	--	--	--	--	--
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Method:	20076010	Sample Name:	600-53710-b-1-d msd	Operator:	DCL		
Run Time:	04/24/12 16:12:09						
Comment:	TRACE 61E						
Mode:	CONC	Corr. Factor:	1				
Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	145.53	.55688	1.1109	1.5868	.34880	.89094	.38086
SDev	.10	.00309	.0008	.0021	.00076	.00059	.00044
%RSD	.06874	.55527	.06799	.12916	.21723	.06622	.11615
#1	145.60	.55907	1.1115	1.5883	.34934	.89052	.38117
#2	145.46	.55469	1.1104	1.5854	.34827	.89136	.38055
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1669.0	1.0349	.75287	1.7849	241.85	.61280	27.145
SDev	9.2	.0021	.00232	.0015	.39	.00018	.137
%RSD	.55339	.20632	.30767	.08603	.15950	.02897	.50552
Analysis Report		04/24/12 04:15:57 PM				page 11	
#1	1675.5	1.0364	.75451	1.7860	242.13	.61292	27.242
#2	1662.4	1.0334	.75123	1.7838	241.58	.61267	27.048
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.72274	33.259	4.4906	.84363	1.0495	49.053	9.0129
SDev	.00876	.067	.0078	.00196	.0008	.033	.0679
%RSD	1.2123	.20181	.17411	.23272	.07490	.06680	.75320
#1	.72894	33.306	4.4961	.84502	1.0500	49.076	8.9649
#2	.71655	33.211	4.4850	.84225	1.0489	49.030	9.0609
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.43932	16.911	19.594	14.257	.86165	.72133	.99658
SDev	.00047	.118	.006	.021	.00205	.00112	.00165
%RSD	.10603	.69694	.02919	.15043	.23780	.15598	.16562
#1	.43965	16.994	19.598	14.242	.86020	.72213	.99775
#2	.43899	16.828	19.590	14.272	.86310	.72053	.99541
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.5600	1.7657	24.845	28.295	.66513	.75155	
SDev	.0031	.0015	.097	.157	.00645	.00992	
%RSD	.20064	.08564	.39120	.55571	.97029	1.3194	
#1	1.5622	1.7668	24.914	28.406	.66970	.75856	
#2	1.5578	1.7647	24.776	28.184	.66057	.74454	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	41050	--	--	--	--	--	--
SDev	347.1894	--	--	--	--	--	--

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%RSD	.8457823	--	--	--	--	--	--
#1	40804	--	--	--	--	--	--
#2	41295	--	--	--	--	--	--

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Method: 20076010 Sample Name: CCV met0412ccv\_00004 Operator: DCL  
Run Time: 04/24/12 16:16:00  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4982	.53139	.50423	.52956	.45430	.52324	.53532
SDev	.0037	.00108	.00293	.00073	.00008	.00193	.00072
%RSD	.14807	.20266	.58192	.13717	.01726	.36824	.13484
#1	2.4956	.53063	.50215	.52905	.45425	.52187	.53481
#2	2.5008	.53215	.50630	.53008	.45436	.52460	.53583

Analysis Report 04/24/12 04:19:48 PM page 12

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.399	.47021	.47154	.47140	2.6272	.50190	.49937
SDev	.024	.00011	.00086	.00059	.0093	.00110	.00173
%RSD	.19022	.02247	.18296	.12531	.35272	.21996	.34734

#1	12.416	.47013	.47093	.47098	2.6207	.50112	.50060
#2	12.382	.47028	.47215	.47182	2.6338	.50268	.49815

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48848	4.7443	.47834	.51199	.49988	13.315	1.0285
SDev	.00188	.0000	.00008	.00059	.00464	.031	.0286
%RSD	.38450	.00031	.01728	.11537	.92746	.22948	2.7836

#1	.48981	4.7443	.47840	.51241	.49661	13.293	1.0487
#2	.48716	4.7443	.47828	.51158	.50316	13.336	1.0083

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24897	13.005	12.983	.26298	.56360	.48818	.50396
SDev	.00079	.274	.056	.00077	.00305	.00033	.00021
%RSD	.31647	2.1038	.42858	.29392	.54167	.06761	.04253

#1	.24842	12.812	12.944	.26243	.56144	.48794	.50411
#2	.24953	13.199	13.022	.26353	.56576	.48841	.50381

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47933	.52896	.45509	.52151	.44318	.51119
SDev	.00004	.00047	.00041	.00240	.00019	.00291
%RSD	.00787	.08833	.08946	.45986	.04378	.57011

#1	.47935	.52863	.45538	.52321	.44304	.51325
#2	.47930	.52929	.45480	.51982	.44332	.50913

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--



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IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37484	--	--	--	--	--	--
SDev	305.4701	--	--	--	--	--	--
%RSD	.8149347	--	--	--	--	--	--
#1	37700	--	--	--	--	--	--
#2	37268	--	--	--	--	--	--

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Method: 20076010 Sample Name: PDS 600-53710-b-1-a Operator: DCL  
Run Time: 04/24/12 16:23:42  
Comment: TRACE 61E

Analysis Report 04/24/12 04:27:30 PM page 14

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	100.98	1.1126	1.1255	1.5938	.35974	1.0193	.39970
SDev	.26	.0047	.0021	.0041	.00046	.0010	.00045
%RSD	.25602	.42296	.19082	.25715	.12643	.09646	.11293
#1	101.16	1.1159	1.1271	1.5967	.36006	1.0200	.40002
#2	100.80	1.1093	1.1240	1.5909	.35942	1.0186	.39938
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1730.2	.98746	.79624	1.5031	187.76	1.1377	27.086
SDev	3.9	.00114	.00081	.0051	.22	.0045	.235
%RSD	.22626	.11522	.10185	.33972	.11847	.39377	.86725
#1	1727.5	.98826	.79682	1.5067	187.91	1.1408	26.920
#2	1733.0	.98666	.79567	1.4995	187.60	1.1345	27.252
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.78820	29.193	4.9374	.88559	1.0753	41.241	7.9903
SDev	.00917	.012	.0068	.00223	.0012	.089	.0343
%RSD	1.1637	.04250	.13812	.25139	.11170	.21659	.42980
#1	.78172	29.202	4.9422	.88716	1.0744	41.304	7.9660
#2	.79469	29.185	4.9326	.88401	1.0761	41.177	8.0146
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.45519	16.031	19.008	15.023	.90383	.86636	1.3488
SDev	.00151	.010	.067	.054	.00131	.00490	.0022
%RSD	.33163	.06203	.35020	.35672	.14504	.56570	.16053
#1	.45626	16.038	19.055	15.061	.90476	.86983	1.3504
#2	.45413	16.024	18.961	14.985	.90291	.86289	1.3473
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.4138	1.7901	24.844	28.206	.72539	.81961	
SDev	.0029	.0036	.145	.280	.00537	.01107	
%RSD	.20567	.20140	.58519	.99147	.74092	1.3507	
#1	1.4158	1.7927	24.741	28.009	.72159	.81178	

file:///c:/tjadata/temp/a042412.TXT

#2	1.4117	1.7876	24.947	28.404	.72919	.82744	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38734	--	--	--	--	--	--
SDev	86.26703	--	--	--	--	--	--
%RSD	.2227165	--	--	--	--	--	--
#1	38795	--	--	--	--	--	--
#2	38673	--	--	--	--	--	--

Analysis Report

04/24/12 04:27:30 PM

page 15

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Method: 20076010 Sample Name: SD 600-53710-b-1-a@5 Operator: DCL  
 Run Time: 04/24/12 16:27:33  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	21.399	.05313	.06504	.16571	.00060	.03210	.00274
SDev	.056	.00342	.00097	.00030	.00000	.00143	.00015
%RSD	.26257	6.4282	1.4972	.18197	.24607	4.4619	5.2774

#1	21.439	.05554	.06435	.16592	.00060	.03311	.00264
#2	21.360	.05071	.06573	.16549	.00060	.03109	.00284

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	647.10	.06109	.01716	.15327	43.753	.02138	6.3903
SDev	1.14	.00022	.00039	.00095	.050	.00009	.0027
%RSD	.17601	.36338	2.2698	.61782	.11483	.40772	.04286

#1	647.91	.06125	.01689	.15394	43.788	.02144	6.3922
#2	646.30	.06093	.01744	.15260	43.717	.02132	6.3884

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00093	5.4728	1.0307	.01955	.08536	5.4518	1.7034
SDev	.00145	.0109	.0019	.00174	.00014	.0139	.0150
%RSD	155.85	.19935	.18223	8.9047	.16287	.25419	.88303

#1	-.00009	5.4805	1.0320	.02078	.08546	5.4616	1.7140
#2	.00196	5.4651	1.0294	.01832	.08526	5.4420	1.6927

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00051	.99338	1.3198	2.8190	.00234	.02128	.12402
SDev	.00053	.15286	.0053	.0031	.00148	.00175	.00044
%RSD	102.83	15.388	.40092	.11109	63.539	8.2127	.35401

#1	-.00089	.88529	1.3235	2.8212	.00338	.02251	.12433
#2	-.00014	1.1015	1.3160	2.8168	.00129	.02004	.12371

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15455	.22142	5.8262	6.6724	-.00304	.00292
SDev	.00066	.00019	.0195	.0139	.00036	.00235



file:///c:/tjadata/temp/a042412.TXT

%RSD	.42525	.08663	.33486	.20777	11.685	80.674
#1	.15501	.22156	5.8124	6.6822	-.00279	.00125
#2	.15408	.22128	5.8400	6.6626	-.00329	.00458

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37300	--	--	--	--	--	--

Analysis Report 04/24/12 04:31:21 PM page 16

SDev	14.84924	--	--	--	--	--	--
%RSD	.0398108	--	--	--	--	--	--
#1	37310	--	--	--	--	--	--
#2	37289	--	--	--	--	--	--

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Method: 20076010 Sample Name: CCV met0412ccv\_00004 Operator: DCL  
Run Time: 04/24/12 16:31:24  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.5266	.53666	.51019	.53663	.46123	.52835	.54411
SDev	.0491	.01127	.00814	.00985	.00944	.00855	.01006
%RSD	1.9415	2.0999	1.5946	1.8361	2.0464	1.6185	1.8486

#1	2.4920	.52870	.50443	.52966	.45456	.52230	.53700
#2	2.5613	.54463	.51594	.54360	.46791	.53440	.55122

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.510	.47772	.47898	.47630	2.6745	.50797	.50425
SDev	.222	.01016	.00904	.00755	.0494	.00792	.00443
%RSD	1.7728	2.1276	1.8879	1.5844	1.8478	1.5597	.87882

#1	12.354	.47054	.47259	.47096	2.6396	.50237	.50112
#2	12.667	.48491	.48538	.48163	2.7095	.51357	.50739

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49273	4.8406	.48608	.51465	.51225	13.539	1.0026
SDev	.00444	.1078	.00949	.01183	.00820	.259	.0127
%RSD	.90053	2.2269	1.9530	2.2978	1.6003	1.9098	1.2661

#1	.48960	4.7644	.47936	.50629	.50646	13.356	.99358
#2	.49587	4.9168	.49279	.52301	.51805	13.722	1.0115

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25237	13.355	13.071	.26728	.57600	.49661	.51170
SDev	.00464	.191	.133	.00506	.01430	.01164	.01030
%RSD	1.8377	1.4327	1.0200	1.8933	2.4828	2.3442	2.0136

#1	.24910	13.219	12.976	.26370	.56589	.48837	.50442
#2	.25565	13.490	13.165	.27085	.58611	.50484	.51899

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
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Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48764	.53631	.45920	.52678	.45138	.51347
SDev	.00985	.01072	.00545	.00392	.00127	.00602
%RSD	2.0196	1.9985	1.1871	.74448	.28133	1.1728
#1	.48068	.52874	.45535	.52400	.45048	.50921
#2	.49461	.54389	.46306	.52955	.45228	.51773

## Analysis Report

04/24/12 04:35:12 PM

page 17

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36710	--	--	--	--	--	--
SDev	876.1053	--	--	--	--	--	--
%RSD	2.386590	--	--	--	--	--	--
#1	37329	--	--	--	--	--	--
#2	36090	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB

Operator: DCL

Run Time: 04/24/12 16:35:15

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10046	.00373	.00263	-.00002	-.00099	.00037	-.00006
SDev	.00382	.00020	.00088	.00019	.00002	.00042	.00014
%RSD	3.8001	5.4417	33.523	987.88	1.6655	114.89	225.42
#1	.10316	.00387	.00326	.00012	-.00098	.00066	.00004
#2	.09776	.00358	.00201	-.00015	-.00100	.00007	-.00016

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00523	-.00044	-.00002	-.00481	.00209	.00050	.00084
SDev	.00341	.00031	.00017	.00069	.01170	.00018	.00052
%RSD	65.132	69.822	800.16	14.390	560.03	36.235	61.363
#1	.00282	-.00022	.00010	-.00432	.01036	.00063	.00121
#2	.00764	-.00066	-.00014	-.00530	-.00618	.00038	.00048

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00084	.01432	-.00001	.00333	-.00019	.14330	.00955
SDev	.00139	.01246	.00008	.00044	.00042	.07541	.00539
%RSD	166.44	87.001	595.12	13.300	216.85	52.623	56.373
#1	.00182	.02312	.00005	.00365	.00010	.19663	.01336
#2	-.00015	.00551	-.00007	.00302	-.00049	.08998	.00575

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00024	-.15846	.01260	-.00002	.00051	-.00044	-.00013
SDev	.00028	.14414	.00496	.00005	.00409	.00211	.00026
%RSD	116.09	90.965	39.319	237.43	806.80	481.50	191.89
#1	-.00004	-.05654	.01611	.00001	.00340	.00106	.00005

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#2	- .00044	- .26039	.00910	- .00006	- .00239	- .00193	- .00031
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	- .00027	.00039	.00179	.00037	- .00273	.00262	
SDev	.00028	.00015	.00102	.00026	.00328	.00373	
%RSD	104.16	37.915	57.070	71.786	119.98	142.24	

Analysis Report 04/24/12 04:39:07 PM page 18

#1	- .00007	.00050	.00251	.00056	- .00505	.00526	
#2	- .00047	.00029	.00107	.00018	- .00041	- .00002	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37588	--	--	--	--	--	--
SDev	342.9468	--	--	--	--	--	--
%RSD	.9123716	--	--	--	--	--	--
#1	37346	--	--	--	--	--	--
#2	37831	--	--	--	--	--	--

Analysis Report 04/24/12 04:48:36 PM page 1

Method: 20076010 Sample Name: 600-53663-a-1-b Operator: DCL  
Run Time: 04/24/12 16:44:48  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.1128	.00228	.01391	.03626	- .00060	.02082	- .00020
SDev	.0203	.00421	.00363	.00063	.00000	.00198	.00011
%RSD	.65278	184.95	26.108	1.7383	.21456	9.5284	56.934

#1	3.0985	- .00070	.01134	.03581	- .00061	.01941	- .00027
#2	3.1272	.00525	.01647	.03670	- .00060	.02222	- .00012

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1905.7	.04354	.00408	.02617	13.007	.00855	.00680
SDev	24.8	.00235	.00006	.00196	.096	.00020	.00141
%RSD	1.3006	5.3964	1.3581	7.4710	.73569	2.3995	20.673

#1	1888.2	.04188	.00412	.02479	12.939	.00841	.00780
#2	1923.2	.04520	.00404	.02755	13.074	.00870	.00581

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00124	1.7860	.08306	.01452	.07706	2.4497	2.5445
SDev	.00056	.0274	.00077	.00080	.00106	.1114	.0168
%RSD	45.074	1.5343	.92375	5.5151	1.3722	4.5460	.66171

#1	.00164	1.7666	.08251	.01395	.07631	2.3709	2.5326
#2	.00085	1.8053	.08360	.01508	.07780	2.5284	2.5564

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm



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Avge	.00112	.86605	.60258	.76837	.00211	.03330	.03409
SDev	.00030	.01678	.00383	.00288	.00053	.00214	.00027
%RSD	27.019	1.9372	.63540	.37453	25.361	6.4293	.80042

#1	.00133	.87791	.59988	.76634	.00249	.03179	.03389
#2	.00090	.85419	.60529	.77041	.00173	.03482	.03428

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.63702	.04614	.01848	.00096	.01782	-.00704	
SDev	.00540	.00032	.00329	.00375	.00518	.00343	
%RSD	.84750	.68272	17.796	390.59	29.059	48.704	

#1	.63320	.04592	.01616	.00362	.01416	-.00462	
#2	.64084	.04637	.02081	-.00169	.02148	-.00947	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31754	--	--	--	--	--	--
SDev	494.9748	--	--	--	--	--	--
%RSD	1.558779	--	--	--	--	--	--

Analysis Report 04/24/12 04:48:36 PM page 2

#1	32104	--	--	--	--	--	--
#2	31404	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-53842-a-1-b Operator: DCL  
Run Time: 04/24/12 16:48:39  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	16.390	1.0615	2.0042	95.002	.00096	-.00134	.01005
SDev	.046	.0107	.0074	.280	.00000	.00021	.00040
%RSD	.28190	1.0126	.37136	.29516	.00707	15.538	3.9627

#1	16.423	1.0539	2.0095	95.200	.00096	-.00149	.01034
#2	16.358	1.0691	1.9990	94.804	.00096	-.00120	.00977

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	16.086	.16644	.11699	1.7007	211.12	.02567	21.477
SDev	.061	.00035	.00074	.0044	.69	.00009	.131
%RSD	.37676	.20798	.63040	.25888	.32578	.36500	.61163

#1	16.129	.16668	.11751	1.7038	211.61	.02574	21.570
#2	16.043	.16619	.11647	1.6976	210.63	.02560	21.384

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01104	1.1313	23.268	.04276	.12521	2.1877	2.2625
SDev	.00049	.0101	.081	.00132	.00091	.0252	.0056
%RSD	4.4227	.88983	.34709	3.0816	.72741	1.1501	.24844

#1	-.01138	1.1384	23.325	.04369	.12585	2.2055	2.2665
#2	-.01069	1.1242	23.211	.04183	.12456	2.1699	2.2585



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Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02777	.44055	.26709	4.4991	.02400	.02700	.15244
SDev	.00067	.19914	.00184	.0137	.00017	.00157	.00034
%RSD	2.4171	45.203	.68954	.30372	.71896	5.8277	.22207

#1	.02824	.58137	.26840	4.5088	.02388	.02589	.15268
#2	.02730	.29974	.26579	4.4894	.02412	.02812	.15220

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09697	5.1213	19.658	22.386	-.02770	-.00270
SDev	.00024	.0177	.105	.145	.00430	.00142
%RSD	.24701	.34624	.53273	.64627	15.524	52.472

#1	.09714	5.1339	19.732	22.488	-.03074	-.00170
#2	.09680	5.1088	19.584	22.284	-.02466	-.00371

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 04/24/12 04:52:27 PM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34527	--	--	--	--	--	--
SDev	162.6346	--	--	--	--	--	--
%RSD	.4710359	--	--	--	--	--	--

#1	34412	--	--	--	--	--	--
#2	34642	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-53842-a-2-b Operator: DCL  
 Run Time: 04/24/12 16:52:30  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	27.154	.07187	.10809	82.630	.00044	.02779	.02842
SDev	.068	.00735	.00140	.152	.00001	.00064	.00010
%RSD	.24961	10.224	1.2971	.18395	3.1875	2.3110	.33785

#1	27.202	.07707	.10908	82.738	.00045	.02824	.02849
#2	27.106	.06668	.10710	82.523	.00043	.02733	.02835

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	153.13	.07459	.03068	1.1444	39.527	.01555	2.3969
SDev	.22	.00012	.00021	.0014	.061	.00003	.0002
%RSD	.14609	.16585	.67556	.12627	.15548	.16961	.00738

#1	153.29	.07468	.03083	1.1454	39.570	.01557	2.3968
#2	152.97	.07450	.03053	1.1433	39.483	.01553	2.3971

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00122	4.1507	2.7720	.01047	.05377	6.9864	4.8356
SDev	.00046	.0027	.0034	.00042	.00006	.0198	.0186
%RSD	37.516	.06611	.12406	4.0163	.10762	.28382	.38428

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#1	.00090	4.1526	2.7745	.01077	.05373	7.0004	4.8487
#2	.00155	4.1487	2.7696	.01018	.05381	6.9724	4.8225
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.01387	1.0785	.94267	5.2209	-.00297	.02809	.26611
SDev	.00040	.0125	.00251	.0086	.00322	.00025	.00013
%RSD	2.8758	1.1604	.26618	.16456	108.71	.89720	.04979
#1	.01415	1.0874	.94445	5.2269	-.00069	.02791	.26620
#2	.01358	1.0697	.94090	5.2148	-.00525	.02827	.26601
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	.13370	4.3544	2.2014	2.4947	-.00669	.00518	
SDev	.00050	.0062	.0160	.0083	.00534	.00198	
%RSD	.37229	.14248	.72671	.33125	79.828	38.286	
#1	.13406	4.3588	2.2127	2.4889	-.01047	.00658	
Analysis Report				04/24/12 04:56:18 PM	page 4		

#2	.13335	4.3500	2.1900	2.5006	-.00292	.00378	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	37122	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	37122	--	--	--	--	--	--
#2	37122	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-53842-a-3-b Operator: DCL  
Run Time: 04/24/12 16:56:21  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	18.142	.09456	.43243	86.619	.00343	.02424	-.00565
SDev	.015	.00152	.00031	.147	.00001	.00000	.00011
%RSD	.08076	1.6063	.07078	.16979	.15316	.00189	2.0048
#1	18.153	.09349	.43221	86.723	.00344	.02424	-.00573
#2	18.132	.09563	.43265	86.515	.00343	.02424	-.00557
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	113.95	.07976	.06877	3.3273	330.10	.01701	10.282
SDev	.28	.00022	.00080	.0029	.83	.00004	.025
%RSD	.24671	.27765	1.1596	.08620	.25188	.25760	.24788
#1	114.15	.07991	.06933	3.3293	330.69	.01704	10.300
#2	113.75	.07960	.06821	3.3252	329.51	.01698	10.264
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.01250	5.7187	18.081	.01614	.08936	6.6973	3.3548



file:///c:/tjadata/temp/a042412.TXT

SDev	.00063	.0202	.045	.00015	.00046	.0142	.0097
%RSD	5.0049	.35396	.25120	.96322	.51243	.21145	.29020
#1	-.01294	5.7330	18.113	.01625	.08969	6.7074	3.3617
#2	-.01206	5.7044	18.049	.01603	.08904	6.6873	3.3480
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01513	1.8315	1.8196	4.8051	.01900	.02780	.17434
SDev	.00015	.1291	.0033	.0045	.00095	.00148	.00052
%RSD	1.0232	7.0477	.18244	.09390	5.0206	5.3294	.29918
#1	.01524	1.9228	1.8172	4.8082	.01832	.02675	.17470
#2	.01502	1.7402	1.8219	4.8019	.01967	.02885	.17397
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.14541	2.5813	9.4454	10.700	-.02835	-.00457	

Analysis Report

04/24/12 05:00:09 PM

page 5

SDev	.00049	.0038	.0640	.006	.00498	.00343	
%RSD	.33553	.14609	.67729	.05835	17.566	74.943	
#1	.14575	2.5840	9.4906	10.705	-.02483	-.00700	
#2	.14506	2.5787	9.4001	10.696	-.03187	-.00215	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35342	--	--	--	--	--	--
SDev	172.5341	--	--	--	--	--	--
%RSD	.4881842	--	--	--	--	--	--
#1	35220	--	--	--	--	--	--
#2	35464	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met0412ccv\_00004 Operator: DCL  
 Run Time: 04/24/12 17:00:12  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.5197	.53964	.51558	.54108	.46585	.52835	.54787
SDev	.0047	.00458	.00139	.00284	.00073	.00138	.00076
%RSD	.18842	.84921	.26880	.52438	.15676	.26052	.13782
#1	2.5231	.54288	.51460	.54308	.46637	.52932	.54841
#2	2.5163	.53640	.51656	.53907	.46533	.52737	.54734
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.573	.48233	.48446	.47620	2.6894	.50615	.50416
SDev	.021	.00178	.00068	.00135	.0135	.00134	.00318
%RSD	.17014	.37002	.14032	.28281	.50045	.26496	.63002
#1	12.588	.48359	.48494	.47715	2.6990	.50709	.50641
#2	12.558	.48107	.48398	.47524	2.6799	.50520	.50192
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881

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Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48784	4.9424	.49008	.52018	.52345	13.643	.97212
SDev	.00322	.0050	.00129	.00066	.00156	.027	.00617
%RSD	.66027	.10171	.26234	.12731	.29755	.19657	.63452
#1	.49012	4.9459	.49099	.51971	.52455	13.662	.97648
#2	.48556	4.9388	.48917	.52065	.52235	13.624	.96776
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25343	13.181	12.891	.26778	.57434	.50172	.51398
SDev	.00060	.031	.053	.00048	.00328	.00075	.00142
%RSD	.23555	.23376	.41132	.17915	.57070	.14902	.27638
#1	.25385	13.159	12.928	.26812	.57202	.50225	.51499
#2	.25301	13.203	12.853	.26744	.57666	.50119	.51298

Analysis Report

04/24/12 05:04:01 PM

page 6

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.49081	.54070	.46149	.52550	.44808	.50778	
SDev	.00091	.00165	.00194	.00380	.00412	.00277	
%RSD	.18596	.30538	.41960	.72242	.91912	.54602	
#1	.49145	.54187	.46286	.52818	.45100	.50974	
#2	.49016	.53953	.46012	.52281	.44517	.50582	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35254	--	--	--	--	--	--
SDev	57.27565	--	--	--	--	--	--
%RSD	.1624680	--	--	--	--	--	--
#1	35294	--	--	--	--	--	--
#2	35213	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB

Operator: DCL

Run Time: 04/24/12 17:04:04

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10192	.00424	.00132	.00084	-.00106	.00032	-.00011
SDev	.00109	.00369	.00291	.00026	.00003	.00024	.00016
%RSD	1.0715	87.221	220.77	30.323	2.8651	76.010	144.99
#1	.10115	.00685	.00338	.00066	-.00104	.00049	.00000
#2	.10269	.00162	-.00074	.00102	-.00108	.00015	-.00022
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00946	.00009	.00026	-.00421	.00351	.00143	.00039
SDev	.00048	.00045	.00057	.00004	.03313	.00004	.00094
%RSD	5.0977	481.73	219.43	.95047	944.18	2.8481	241.24
#1	-.00912	.00041	.00066	-.00424	.02693	.00146	-.00027
#2	-.00980	-.00023	-.00014	-.00419	-.01991	.00140	.00105

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Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00086	.08513	.00011	.00252	.00012	.60874	-.00343
SDev	.00066	.00186	.00000	.00128	.00082	.00132	.00141
%RSD	77.097	2.1799	.34272	50.861	679.24	.21695	40.987
#1	-.00133	.08645	.00011	.00343	.00070	.60967	-.00244
#2	-.00039	.08382	.00011	.00161	-.00046	.60780	-.00442
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00001	-.12344	.04525	-.00006	-.00367	-.00001	-.00017
SDev	.00079	.23372	.00117	.00004	.00293	.00235	.00023
Analysis Report				04/24/12 05:07:52 PM	page 7		
%RSD	10006.	189.33	2.5738	63.936	79.867	41270.	131.15
#1	.00055	.04182	.04607	-.00003	-.00160	.00166	-.00001
#2	-.00057	-.28870	.04442	-.00009	-.00574	-.00167	-.00033
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00036	.00028	.00082	.00017	-.00585	.00163	
SDev	.00039	.00005	.00024	.00128	.00663	.00232	
%RSD	107.70	18.724	29.482	744.63	113.44	142.09	
#1	-.00009	.00032	.00065	-.00074	-.01054	.00328	
#2	-.00063	.00024	.00099	.00108	-.00116	-.00001	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34962	--	--	--	--	--	--
SDev	95.45942	--	--	--	--	--	--
%RSD	.2730416	--	--	--	--	--	--
#1	35029	--	--	--	--	--	--
#2	34894	--	--	--	--	--	--

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Method: 20076010 Sample Name: ICSA metisa\_00072 Operator: DCL  
Run Time: 04/24/12 17:07:56  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	487.42	.00660	.00052	.00258	-.00127	-.00060	-.00803
SDev	1.98	.00167	.00086	.00007	.00000	.00064	.00002
%RSD	.40632	25.369	165.79	2.8187	.22662	106.00	.20141
#1	488.82	.00541	.00113	.00263	-.00128	-.00105	-.00804
#2	486.02	.00778	-.00009	.00253	-.00127	-.00015	-.00802
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	453.19	.00204	-.00005	.00886	201.17	.00584	.00074
SDev	1.90	.00003	.00000	.00011	.84	.00015	.00071
%RSD	.41823	1.3031	7.2290	1.2825	.42001	2.5923	95.195



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#1	454.53	.00206	-.00005	.00878	201.77	.00595	.00024
#2	451.85	.00202	-.00004	.00894	200.58	.00573	.00124
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01167	492.49	-.00695	-.00031	.00022	.73131	.00936
SDev	.00356	1.98	.00008	.00140	.00046	.02224	.00035
%RSD	30.545	.40104	1.1415	449.34	206.95	3.0406	3.7764
#1	-.00915	493.89	-.00700	.00068	-.00010	.74704	.00961
#2	-.01418	491.10	-.00689	-.00130	.00054	.71559	.00911

Analysis Report

04/24/12 05:11:44 PM

page 8

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00015	.22561	.23908	-.00890	.01507	-.00549	-.00358
SDev	.00049	.05404	.00279	.00008	.00462	.00138	.00019
%RSD	332.71	23.955	1.1664	.94627	30.630	25.084	5.4185
#1	.00020	.26383	.24105	-.00896	.01833	-.00647	-.00344
#2	-.00049	.18740	.23711	-.00884	.01180	-.00452	-.00371
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00424	-.00733	.00326	-.00052	-.00798	-.01351	
SDev	.00003	.00039	.00414	.00313	.00868	.00101	
%RSD	.63765	5.3415	126.95	600.03	108.77	7.4493	
#1	.00426	-.00760	.00619	-.00273	-.00184	-.01280	
#2	.00422	-.00705	.00033	.00169	-.01411	-.01422	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32094	--	--	--	--	--	--
SDev	105.3589	--	--	--	--	--	--
%RSD	.3282874	--	--	--	--	--	--
#1	32019	--	--	--	--	--	--
#2	32168	--	--	--	--	--	--

Method: 20076010 Sample Name: ICSAB metisb\_00074 Operator: DCL

Run Time: 04/24/12 17:11:48

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	503.46	1.1175	1.0516	1.1274	.46168	1.1157	.50821
SDev	1.59	.0097	.0004	.0034	.00105	.0046	.00200
%RSD	.31491	.86359	.04188	.30126	.22649	.41304	.39397
#1	504.58	1.1243	1.0519	1.1298	.46242	1.1190	.50963
#2	502.34	1.1106	1.0513	1.1250	.46094	1.1125	.50680
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	465.26	.95739	.91842	1.0282	213.38	1.2687	1.0039
SDev	.91	.00208	.00312	.0042	.56	.0054	.0068

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%RSD	.19503	.21741	.33949	.40914	.26474	.42685	.68166
#1	465.90	.95886	.92062	1.0312	213.78	1.2725	.99902
#2	464.62	.95592	.91621	1.0252	212.98	1.2648	1.0087
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.97739	508.86	.98188	1.0381	.97180	15.686	1.0524
SDev	.01014	1.28	.00246	.0019	.00255	.048	.0027
%RSD	1.0373	.25067	.25071	.18036	.26255	.30885	.25331
Analysis Report	04/24/12 05:15:36 PM					page 9	

#1	.97023	509.77	.98362	1.0368	.97361	15.720	1.0543
#2	.98456	507.96	.98014	1.0394	.97000	15.652	1.0505
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.55779	12.488	14.212	.54081	1.1538	.99468	1.0377
SDev	.00086	.125	.075	.00148	.0027	.00832	.0031
%RSD	.15375	1.0037	.53084	.27299	.23740	.83685	.30225
#1	.55840	12.577	14.266	.54185	1.1557	1.0006	1.0399
#2	.55719	12.399	14.159	.53976	1.1519	.98880	1.0355
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	.98344	1.0817	.92543	1.0431	.91535	1.0084	
SDev	.00217	.0030	.00398	.0083	.01229	.0214	
%RSD	.22089	.27848	.42995	.79332	1.3428	2.1175	
#1	.98498	1.0839	.92261	1.0372	.92405	.99332	
#2	.98191	1.0796	.92824	1.0489	.90666	1.0235	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	32048	--	--	--	--	--	--
SDev	51.61879	--	--	--	--	--	--
%RSD	.1610646	--	--	--	--	--	--
#1	32085	--	--	--	--	--	--
#2	32012	--	--	--	--	--	--
Analysis Report	04/24/12 05:25:20 PM					page 1	

Method: 20076010 Sample Name: mb 600-77829/1-a Operator: DCL  
 Run Time: 04/24/12 17:21:32  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.11061	.00516	.00328	.00181	-.00105	.00074	-.00015
SDev	.00077	.00164	.00046	.00006	.00002	.00026	.00006
%RSD	.70070	31.918	14.038	3.2963	1.9118	34.539	41.926
#1	.11115	.00399	.00295	.00185	-.00103	.00092	-.00010
#2	.11006	.00632	.00360	.00177	-.00106	.00056	-.00019





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Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.01003	.00077	.00002	-.00282	.00005	.00113	.00089
SDev	.00555	.00004	.00006	.00004	.00351	.00002	.00138
%RSD	55.359	4.7061	366.35	1.2522	7496.7	2.0375	155.57

#1	-.01395	.00079	.00006	-.00284	-.00244	.00115	.00187
#2	-.00610	.00074	-.00003	-.00279	.00253	.00111	-.00009

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00106	.07282	.00022	.00109	-.00030	.43658	-.00368
SDev	.00116	.00486	.00011	.00013	.00010	.00145	.00074
%RSD	109.67	6.6780	50.612	11.824	32.587	.33248	20.183

#1	.00024	.07626	.00014	.00100	-.00023	.43761	-.00420
#2	.00187	.06938	.00030	.00118	-.00036	.43556	-.00315

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00028	-.08752	.02439	-.00006	-.00264	.00014	.00021
SDev	.00102	.11368	.00021	.00001	.00001	.00075	.00011
%RSD	358.72	129.89	.86430	15.138	.29562	541.62	50.901

#1	-.00100	-.00714	.02424	-.00007	-.00263	-.00039	.00014
#2	.00044	-.16790	.02454	-.00005	-.00264	.00067	.00029

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00036	-.00092	.00023	.00122	-.00568	.00442
SDev	.00022	.00028	.00313	.00051	.00023	.00162
%RSD	60.261	30.481	1355.6	41.879	3.9850	36.683

#1	.00052	-.00111	.00245	.00158	-.00584	.00328
#2	.00021	-.00072	-.00198	.00086	-.00552	.00557

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	35846	--	--	--	--	--	--
SDev	24.74874	--	--	--	--	--	--
%RSD	.0690409	--	--	--	--	--	--

Analysis Report 04/24/12 05:25:20 PM page 2

#1	35864	--	--	--	--	--
#2	35829	--	--	--	--	--

Analysis Report 04/24/12 05:29:36 PM page 1

Method: 20076010 Sample Name: lcs 600-77829/2-a Operator: DCL

Run Time: 04/24/12 17:25:47

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	9.6592	1.0629	1.0100	1.0657	.45927	1.0468	.53696

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SDev	.0404	.0018	.0006	.0037	.00170	.0003	.00240
%RSD	.41833	.16540	.05535	.34808	.37132	.03314	.44736
#1	9.6878	1.0617	1.0096	1.0683	.46047	1.0466	.53866
#2	9.6306	1.0641	1.0104	1.0631	.45806	1.0471	.53526
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.8494	.95379	.95972	.95080	10.430	.50221	.99585
SDev	.0451	.00396	.00310	.00271	.020	.00186	.00367
%RSD	.45743	.41522	.32293	.28513	.19572	.37019	.36900
#1	9.8813	.95659	.96191	.95271	10.445	.50352	.99845
#2	9.8176	.95099	.95753	.94888	10.416	.50089	.99325
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96405	9.6782	.97801	1.0390	1.0326	10.926	.96471
SDev	.00305	.0518	.00412	.0007	.0080	.064	.00579
%RSD	.31642	.53532	.42112	.06336	.77132	.58520	.59977
#1	.96189	9.7148	.98092	1.0394	1.0382	10.971	.96880
#2	.96620	9.6415	.97510	1.0385	1.0270	10.881	.96061
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50861	9.8998	10.359	.53573	1.1362	.98259	1.0078
SDev	.00161	.0123	.026	.00216	.0100	.00416	.0039
%RSD	.31572	.12425	.24737	.40317	.87598	.42308	.39011
#1	.50974	9.9085	10.377	.53726	1.1291	.98553	1.0106
#2	.50747	9.8911	10.341	.53420	1.1432	.97965	1.0050
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.96832	1.0588	.91416	1.0367	.88856	1.0018	
SDev	.00427	.0033	.00122	.0049	.00357	.0064	
%RSD	.44080	.30755	.13377	.47271	.40197	.63501	
#1	.97134	1.0611	.91503	1.0402	.89108	.99729	
#2	.96530	1.0565	.91330	1.0332	.88603	1.0063	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	36608	--	--	--	--	--	--
SDev	228.3955	--	--	--	--	--	--
%RSD	.6238865	--	--	--	--	--	--

Analysis Report

04/24/12 05:29:36 PM

page 2

#1	36447	--	--	--	--	--	--
#2	36770	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53341-a-1-a Operator: DCL  
Run Time: 04/24/12 17:29:39  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

file:///c:/tjadata/temp/a042412.TXT

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.88433	.00588	.00282	.05338	-.00094	.03362	-.00035
SDev	.00290	.00092	.00085	.00005	.00001	.00036	.00015
%RSD	.32763	15.629	30.172	.08456	.71296	1.0552	42.334
#1	.88638	.00653	.00222	.05341	-.00094	.03387	-.00025
#2	.88228	.00523	.00342	.05335	-.00095	.03337	-.00046
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	9.5584	.00159	.00091	.02159	7.5821	.00411	.02170
SDev	.0090	.00000	.00021	.00032	.0013	.00002	.00150
%RSD	.09453	.14205	22.751	1.4866	.01668	.47403	6.9269
#1	9.5648	.00159	.00105	.02182	7.5830	.00410	.02276
#2	9.5520	.00159	.00076	.02136	7.5813	.00412	.02063
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00242	1.2471	.05908	.00590	.00126	1.7875	1.6805
SDev	.00093	.0006	.00008	.00090	.00071	.0091	.0029
%RSD	38.212	.04878	.13043	15.301	56.508	.51181	.17379
#1	.00177	1.2475	.05914	.00654	.00075	1.7811	1.6826
#2	.00308	1.2466	.05903	.00527	.00176	1.7940	1.6784
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00012	12.026	11.278	1.3715	.00259	.00054	.01299
SDev	.00008	.109	.012	.0024	.00211	.00088	.00002
%RSD	63.900	.90748	.11075	.17370	81.667	164.28	.12619
#1	.00007	12.103	11.286	1.3732	.00408	-.00009	.01298
#2	.00018	11.949	11.269	1.3698	.00109	.00116	.01300
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	.00308	.18327	.02101	.02204	-.00281	.00504	
SDev	.00036	.00014	.00224	.00113	.00002	.00138	
%RSD	11.535	.07649	10.652	5.1515	.64732	27.367	
#1	.00333	.18337	.02259	.02284	-.00283	.00407	
#2	.00283	.18317	.01943	.02124	-.00280	.00602	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 04/24/12 05:33:26 PM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	37255	--	--	--	--	--	--
SDev	59.39697	--	--	--	--	--	--
%RSD	.1594336	--	--	--	--	--	--
#1	37297	--	--	--	--	--	--
#2	37213	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-53341-a-2-a Operator: DCL  
Run Time: 04/24/12 17:33:30

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Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.27315	.00403	.00185	.02322	-.00105	.10542	-.00098
SDev	.00157	.00078	.00116	.00003	.00002	.00007	.00013
%RSD	.57605	19.323	62.621	.14046	1.7443	.06813	13.656
#1	.27204	.00348	.00103	.02320	-.00107	.10537	-.00108
#2	.27426	.00458	.00266	.02325	-.00104	.10547	-.00089
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	41.412	.00153	.00406	.01817	39.554	.02039	.00537
SDev	.033	.00051	.00005	.00012	.047	.00006	.00052
%RSD	.08030	33.542	1.1026	.65720	.11789	.27149	9.6611
#1	41.436	.00117	.00409	.01808	39.587	.02035	.00501
#2	41.389	.00189	.00403	.01825	39.521	.02043	.00574
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00195	8.7480	1.0331	.00694	.13187	4.0078	2.8772
SDev	.00073	.0010	.0011	.00069	.00029	.0338	.0025
%RSD	37.146	.01122	.10914	9.9875	.21962	.84392	.08762
#1	-.00247	8.7473	1.0339	.00645	.13208	3.9839	2.8790
#2	-.00144	8.7487	1.0323	.00743	.13167	4.0317	2.8754
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00009	114.64	98.676	3.5039	.00084	.00206	.00060
SDev	.00081	.04	.139	.0051	.00118	.00134	.00004
%RSD	871.52	.03566	.14130	.14581	140.55	65.390	6.2195
#1	-.00048	114.61	98.775	3.5075	.00167	.00111	.00057
#2	.00067	114.67	98.578	3.5003	.00001	.00301	.00063
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00169	.06466	.00560	.00526	-.00493	-.00047	
SDev	.00045	.00019	.00071	.00113	.00737	.00260	
%RSD	26.463	.29472	12.626	21.507	149.67	555.62	
#1	.00138	.06453	.00610	.00446	-.01014	.00137	
Analysis Report				04/24/12 05:37:19 PM	page 4		
#2	.00201	.06480	.00510	.00606	.00029	-.00230	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36259	--	--	--	--	--	--
SDev	186.6762	--	--	--	--	--	--
%RSD	.5148410	--	--	--	--	--	--
#1	36391	--	--	--	--	--	--
#2	36127	--	--	--	--	--	--



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Method: 20076010 Sample Name: 600-53976-c-1-a Operator: DCL  
 Run Time: 04/24/12 17:37:22  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.34787	.00535	.01335	.38554	-.00114	.44962	-.00005
SDev	.00408	.00287	.00080	.00123	.00002	.00003	.00007
%RSD	1.1720	53.683	5.9808	.31789	1.8086	.00723	142.89

#1	.35075	.00738	.01278	.38641	-.00116	.44959	.00000
#2	.34498	.00332	.01391	.38468	-.00113	.44964	-.00010

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	57.302	.00100	.00311	-.00006	.10146	.05399	.00127
SDev	.133	.00029	.00058	.00026	.00103	.00018	.00003
%RSD	.23176	28.850	18.713	450.60	1.0184	.34076	2.4112

#1	57.396	.00121	.00352	-.00024	.10219	.05386	.00125
#2	57.208	.00080	.00270	.00012	.10073	.05412	.00129

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07522	14.836	.07543	.04744	.00593	99.598	6.1820
SDev	.00189	.038	.00006	.00076	.00076	.263	.0026
%RSD	2.5117	.25865	.07421	1.6087	12.727	.26424	.04153

#1	.07656	14.863	.07547	.04798	.00647	99.785	6.1838
#2	.07389	14.809	.07539	.04690	.00540	99.412	6.1802

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00030	1731.6	796.21	1.5755	.00096	.00129	.00020
SDev	.00035	3.7	2.15	.0039	.00136	.00015	.00024
%RSD	113.70	.21600	.27024	.24678	141.58	11.645	119.69

#1	.00055	1734.2	797.73	1.5783	-.00000	.00118	.00037
#2	.00006	1728.9	794.68	1.5728	.00192	.00140	.00003

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01436	.04275	.00144	.00119	.07023	.07772

Analysis Report 04/24/12 05:41:10 PM page 5

SDev	.00026	.00011	.00035	.00022	.00230	.00398
%RSD	1.7826	.25869	24.054	18.460	3.2787	5.1276

#1	.01454	.04267	.00169	.00103	.06860	.08054
#2	.01418	.04282	.00120	.00134	.07185	.07490

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34180	--	--	--	--	--	--
SDev	46.66905	--	--	--	--	--	--
%RSD	.1365391	--	--	--	--	--	--
#1	34147	--	--	--	--	--	--

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#2	34213	--	--	--	--	--	--
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Method:	20076010	Sample Name:	600-53976-c-1-b du	Operator:	DCL		
Run Time:	04/24/12 17:41:13						
Comment:	TRACE 61E						
Mode:	CONC	Corr. Factor:	1				
Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.36924	.00392	.01337	.39987	-.00115	.46320	-.00007
SDev	.02427	.00158	.00151	.01915	.00007	.02068	.00008
%RSD	6.5723	40.258	11.322	4.7899	6.2424	4.4649	129.88
#1	.35208	.00503	.01230	.38632	-.00110	.44858	-.00001
#2	.38640	.00280	.01444	.41341	-.00120	.47783	-.00013
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	59.363	.00107	.00311	-.00002	.11744	.05652	-.00053
SDev	2.786	.00000	.00007	.00054	.00458	.00304	.00103
%RSD	4.6934	.08652	2.3808	3338.3	3.9006	5.3718	195.72
#1	57.393	.00107	.00317	.00036	.12068	.05438	.00020
#2	61.333	.00107	.00306	-.00040	.11420	.05867	-.00126
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.07687	15.393	.07775	.05051	.00643	102.99	6.4630
SDev	.00093	.749	.00364	.00306	.00055	4.66	.3172
%RSD	1.2066	4.8685	4.6883	6.0571	8.5117	4.5215	4.9084
#1	.07752	14.863	.07517	.04834	.00604	99.694	6.2387
#2	.07621	15.923	.08032	.05267	.00681	106.28	6.6874
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00007	1794.6	826.40	1.6313	-.00292	-.00109	.00024
SDev	.00030	82.2	37.01	.0780	.00217	.00142	.00018
%RSD	412.59	4.5798	4.4784	4.7791	74.548	130.21	73.227
#1	.00014	1736.5	800.23	1.5762	-.00138	-.00210	.00037
#2	-.00028	1852.7	852.57	1.6864	-.00445	-.00009	.00012

Analysis Report

04/24/12 05:45:01 PM

page 6

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.01485	.04242	-.00174	.00008	.07103	.07979
SDev	.00096	.00215	.00201	.00055	.00302	.00012
%RSD	6.4837	5.0640	115.24	691.33	4.2574	.15132
#1	.01417	.04090	-.00032	.00047	.07316	.07970
#2	.01553	.04394	-.00316	-.00031	.06889	.07987
IntStd	1	2	3	4	5	6
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--
Avgc	32994	--	--	--	--	--
SDev	1424.113	--	--	--	--	--
%RSD	4.316279	--	--	--	--	--

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#1      34001      --      --      --      --      --      --
#2      31987      --      --      --      --      --      --
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Method: 20076010   Sample Name: 600-53976-c-1-c ms   Operator: DCL
Run Time: 04/24/12 17:45:04
Comment: TRACE 61E
Mode: CONC   Corr. Factor: 1

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Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.994	1.1198	1.1004	1.4801	.47558	1.5798	.54286
SDev	.027	.0053	.0034	.0031	.00055	.0020	.00069
%RSD	.24818	.47547	.31236	.21182	.11460	.12425	.12673

#1	11.014	1.1236	1.0979	1.4823	.47596	1.5812	.54334
#2	10.975	1.1160	1.1028	1.4779	.47519	1.5785	.54237

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	68.198	.97502	1.0034	1.0184	10.792	.70028	1.0472
SDev	.086	.00173	.0017	.0034	.006	.00185	.0025
%RSD	.12678	.17718	.16872	.33642	.05587	.26393	.23862

#1	68.259	.97624	1.0046	1.0208	10.788	.70158	1.0489
#2	68.137	.97380	1.0022	1.0160	10.797	.69897	1.0454

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1026	24.948	1.0894	1.1420	1.0646	114.50	7.3708
SDev	.0005	.040	.0018	.0047	.0022	.30	.0102
%RSD	.04733	.16191	.16832	.41281	.21058	.26622	.13854

#1	1.1022	24.976	1.0907	1.1387	1.0630	114.72	7.3780
#2	1.1029	24.919	1.0881	1.1453	1.0661	114.28	7.3636

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54490	1779.2	815.86	2.1676	1.1934	1.0616	1.0471
SDev	.00097	3.0	.95	.0043	.0077	.0055	.0021

Analysis Report 04/24/12 05:48:52 PM page 7

%RSD	.17785	.17085	.11610	.19931	.64492	.52143	.19916
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#1	.54558	1781.4	816.53	2.1707	1.1880	1.0655	1.0485
#2	.54421	1777.1	815.19	2.1646	1.1988	1.0577	1.0456

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0233	1.1916	.96876	1.0864	1.0235	1.1421
SDev	.0015	.0012	.00137	.0031	.0002	.0007
%RSD	.15006	.10016	.14169	.28185	.02235	.05852

#1	1.0244	1.1925	.96973	1.0885	1.0233	1.1416
#2	1.0222	1.1908	.96779	1.0842	1.0237	1.1426

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33796	--	--	--	--	--	--

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SDev	55.86144	--	--	--	--	--	--
%RSD	.1652925	--	--	--	--	--	--
#1	33835	--	--	--	--	--	--
#2	33756	--	--	--	--	--	--
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Method:	20076010	Sample Name:	600-53976-c-1-d	msd	Operator:	DCL	
Run Time:	04/24/12	17:48:55					
Comment:	TRACE 61E						
Mode:	CONC	Corr. Factor:	1				
Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.921	1.1099	1.0915	1.4683	.47345	1.5685	.53892
SDev	.046	.0065	.0016	.0051	.00144	.0053	.00111
%RSD	.41979	.58406	.15034	.34528	.30446	.34038	.20564
#1	10.954	1.1145	1.0926	1.4719	.47447	1.5722	.53970
#2	10.889	1.1053	1.0903	1.4647	.47243	1.5647	.53813
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	67.805	.96990	.99744	1.0108	10.771	.69344	1.0398
SDev	.209	.00222	.00304	.0028	.066	.00179	.0018
%RSD	.30850	.22934	.30492	.27615	.61013	.25837	.16852
#1	67.953	.97147	.99959	1.0127	10.818	.69471	1.0411
#2	67.658	.96833	.99529	1.0088	10.725	.69217	1.0386
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0919	24.816	1.0823	1.1383	1.0562	113.44	7.3728
SDev	.0067	.059	.0034	.0014	.0023	.44	.0208
%RSD	.61402	.23959	.31742	.12495	.22018	.38397	.28248
#1	1.0967	24.858	1.0848	1.1393	1.0578	113.75	7.3875
#2	1.0872	24.774	1.0799	1.1373	1.0546	113.13	7.3580

Analysis Report

04/24/12 05:52:43 PM

page 8

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54171	1766.9	810.99	2.1497	1.1848	1.0583	1.0398
SDev	.00327	7.2	1.66	.0071	.0041	.0040	.0038
%RSD	.60440	.40597	.20521	.32812	.34855	.37666	.36800
#1	.54402	1772.0	812.17	2.1546	1.1818	1.0612	1.0425
#2	.53939	1761.8	809.82	2.1447	1.1877	1.0555	1.0371
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.0175	1.1825	.96242	1.0786	1.0144	1.1307	
SDev	.0037	.0035	.00191	.0017	.0090	.0056	
%RSD	.36509	.30004	.19873	.15503	.88768	.49128	
#1	1.0201	1.1850	.96377	1.0797	1.0207	1.1346	
#2	1.0148	1.1800	.96106	1.0774	1.0080	1.1268	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--



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Wavlen	371.030	--	--	--	--	--	--
Avge	33963	--	--	--	--	--	--
SDev	65.05383	--	--	--	--	--	--
%RSD	.1915432	--	--	--	--	--	--
#1	33917	--	--	--	--	--	--
#2	34009	--	--	--	--	--	--

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Method: 20076010 Sample Name: PDS 600-53976-c-1-a Operator: DCL  
Run Time: 04/24/12 17:52:46  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.853	1.0706	1.0858	1.4668	.46589	1.5611	.53661
SDev	.029	.0059	.0041	.0039	.00115	.0033	.00172
%RSD	.26904	.54690	.37509	.26335	.24630	.20911	.32068

#1	10.873	1.0664	1.0886	1.4696	.46670	1.5634	.53783
#2	10.832	1.0747	1.0829	1.4641	.46508	1.5587	.53540

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	67.487	.96671	.98450	1.0102	10.620	1.3576	1.0419
SDev	.196	.00204	.00266	.0022	.039	.0044	.0010
%RSD	.28976	.21157	.27014	.21311	.37110	.32483	.09980

#1	67.626	.96815	.98638	1.0118	10.647	1.3607	1.0411
#2	67.349	.96526	.98262	1.0087	10.592	1.3545	1.0426

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0892	24.607	1.0801	1.1021	1.0473	113.05	8.2922
SDev	.0029	.075	.0028	.0065	.0063	.31	.0197
%RSD	.26804	.30559	.25752	.59372	.59737	.27667	.23720

Analysis Report

04/24/12 05:56:34 PM

page 9

#1	1.0871	24.660	1.0821	1.1068	1.0517	113.27	8.2783
#2	1.0912	24.554	1.0781	1.0975	1.0429	112.83	8.3061

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53128	1756.6	812.55	2.1389	1.1732	1.0420	1.0292
SDev	.00158	4.5	1.41	.0056	.0040	.0047	.0026
%RSD	.29681	.25442	.17345	.26297	.34372	.44840	.24898

#1	.53240	1759.7	813.55	2.1429	1.1761	1.0453	1.0310
#2	.53017	1753.4	811.56	2.1349	1.1704	1.0387	1.0274

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.0039	1.1825	.96651	1.0796	1.0111	1.1282	
SDev	.0024	.0023	.00128	.0009	.0012	.0038	
%RSD	.24127	.19296	.13248	.08517	.11577	.33628	

#1	1.0057	1.1841	.96560	1.0789	1.0103	1.1255	
#2	1.0022	1.1809	.96741	1.0802	1.0119	1.1309	

IntStd	1	2	3	4	5	6	7
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Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33621	--	--	--	--	--	--
SDev	104.6518	--	--	--	--	--	--
%RSD	.3112692	--	--	--	--	--	--
#1	33695	--	--	--	--	--	--
#2	33547	--	--	--	--	--	--

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Method: 20076010 Sample Name: SD 600-53976-c-1-a@5 Operator: DCL  
Run Time: 04/24/12 17:56:37  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14973	.00781	.00486	.07771	-.00093	.09053	-.00003
SDev	.00001	.00568	.00066	.00024	.00004	.00111	.00005
%RSD	.00659	72.746	13.632	.30423	4.2107	1.2277	178.57

#1	.14973	.01183	.00533	.07788	-.00095	.09132	-.00007
#2	.14972	.00379	.00439	.07755	-.00090	.08974	.00001

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.638	.00055	.00075	-.00283	.03139	.01131	.00015
SDev	.039	.00005	.00006	.00024	.00952	.00023	.00125
%RSD	.33259	9.2976	7.8343	8.4860	30.319	2.0573	824.42

#1	11.665	.00051	.00080	-.00266	.03811	.01148	-.00073
#2	11.611	.00058	.00071	-.00300	.02466	.01115	.00103

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
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Analysis Report 04/24/12 06:00:25 PM page 10

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01625	3.0488	.01525	.01295	.00077	17.170	1.2400
SDev	.00006	.0163	.00005	.00093	.00020	.056	.0118
%RSD	.36301	.53433	.30862	7.1514	26.132	.32412	.95309

#1	.01629	3.0603	.01528	.01360	.00063	17.210	1.2484
#2	.01620	3.0373	.01521	.01229	.00091	17.131	1.2317

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00011	287.17	216.78	.31404	-.00045	.00174	.00011
SDev	.00041	.64	.37	.00034	.00299	.00034	.00005
%RSD	382.15	.22443	.17204	.10684	664.30	19.418	42.308

#1	.00040	287.62	217.04	.31428	.00167	.00198	.00015
#2	-.00018	286.71	216.52	.31381	-.00257	.00150	.00008

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00321	.01156	.00029	.00008	.01063	.01905
SDev	.00019	.00021	.00016	.00179	.00417	.00200
%RSD	5.7884	1.7835	56.127	2215.8	39.240	10.479

#1	.00335	.01141	.00018	-.00118	.01358	.01764
#2	.00308	.01170	.00041	.00134	.00768	.02047

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IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	35836	--	--	--	--	--	--
SDev	371.2310	--	--	--	--	--	--
%RSD	1.035902	--	--	--	--	--	--
#1	35574	--	--	--	--	--	--
#2	36099	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met0412ccv\_00004 Operator: DCL  
 Run Time: 04/24/12 18:00:28  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	2.4972	.52568	.50582	.52868	.46445	.52161	.53744
SDev	.0161	.00202	.00613	.00259	.00217	.00116	.00204
%RSD	.64286	.38440	1.2127	.49047	.46708	.22224	.37997
#1	2.5086	.52711	.51016	.53052	.46598	.52243	.53888
#2	2.4859	.52425	.50148	.52685	.46292	.52079	.53600
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	12.433	.47866	.48128	.47603	2.6498	.49771	.50098
SDev	.058	.00253	.00243	.00155	.0147	.00226	.00030
%RSD	.46617	.52781	.50577	.32515	.55332	.45449	.05907

Analysis Report

04/24/12 06:04:16 PM

page 11

#1	12.474	.48045	.48300	.47712	2.6601	.49931	.50077
#2	12.392	.47687	.47955	.47493	2.6394	.49611	.50119
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.49281	4.8721	.48504	.51458	.51359	13.352	.98281
SDev	.00017	.0255	.00223	.00029	.00320	.059	.01048
%RSD	.03432	.52338	.46029	.05634	.62406	.43933	1.0660
#1	.49293	4.8901	.48662	.51438	.51585	13.393	.99022
#2	.49269	4.8541	.48346	.51479	.51132	13.310	.97540
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.25153	13.274	12.845	.26472	.56937	.49679	.50803
SDev	.00121	.052	.063	.00117	.00122	.00185	.00291
%RSD	.47997	.39534	.49357	.44051	.21425	.37191	.57188
#1	.25238	13.311	12.890	.26554	.56851	.49810	.51008
#2	.25067	13.237	12.800	.26389	.57024	.49549	.50597
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	.48775	.53251	.46438	.51929	.45166	.51344	
SDev	.00231	.00322	.00170	.00129	.00219	.00084	
%RSD	.47256	.60415	.36638	.24929	.48405	.16341	

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#1	.48938	.53478	.46558	.51837	.45321	.51285	
#2	.48612	.53023	.46317	.52020	.45011	.51404	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	35710	--	--	--	--	--	--
SDev	45.96194	--	--	--	--	--	--
%RSD	.1287071	--	--	--	--	--	--
#1	35678	--	--	--	--	--	--
#2	35743	--	--	--	--	--	--

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Method: 20076010 Sample Name: CCB Operator: DCL  
 Run Time: 04/24/12 18:04:20  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08836	.00363	.00100	.00005	-.00092	.00107	.00002
SDev	.00403	.00021	.00072	.00002	.00001	.00070	.00001
%RSD	4.5633	5.7016	72.426	52.386	1.4557	65.021	66.542
#1	.08550	.00378	.00049	.00003	-.00091	.00058	.00001
#2	.09121	.00349	.00151	.00006	-.00093	.00156	.00003

## Analysis Report

04/24/12 06:08:08 PM

page 12

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01162	.00019	.00031	-.00403	.01713	.00115	.00008
SDev	.00057	.00045	.00004	.00038	.01136	.00012	.00021
%RSD	4.9269	238.86	12.034	9.4418	66.297	10.547	258.72
#1	-.01203	-.00013	.00033	-.00430	.02516	.00106	-.00007
#2	-.01122	.00051	.00028	-.00376	.00910	.00123	.00023
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00191	.05112	.00006	.00228	-.00007	.39219	-.00082
SDev	.00117	.01110	.00002	.00137	.00022	.07254	.00104
%RSD	61.104	21.704	36.132	59.907	322.74	18.497	125.98
#1	.00273	.04327	.00005	.00325	.00009	.34089	-.00155
#2	.00108	.05896	.00008	.00132	-.00022	.44348	-.00009
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00008	-.04543	.06075	-.00008	-.00026	-.00070	.00006
SDev	.00024	.06348	.00878	.00003	.00478	.00044	.00004
%RSD	302.62	139.72	14.452	39.878	1851.4	62.582	66.659
#1	-.00025	-.09032	.05454	-.00010	.00312	-.00039	.00003
#2	.00009	-.00055	.06695	-.00006	-.00364	-.00100	.00010
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	

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Avge	.00006	.00037	.00067	-.00021	.00466	.00053
SDev	.00020	.00012	.00179	.00122	.00289	.00030
%RSD	312.30	33.224	266.04	573.90	62.015	57.101
#1	-.00008	.00028	.00194	-.00107	.00670	.00074
#2	.00021	.00045	-.00059	.00065	.00262	.00032

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36371	--	--	--	--	--	--
SDev	377.5950	--	--	--	--	--	--
%RSD	1.038176	--	--	--	--	--	--
#1	36638	--	--	--	--	--	--
#2	36104	--	--	--	--	--	--

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# Metals Worksheet

Batch Number: 600-77659  
 Method: 245.1  
 Analyst: Patel, Silen R

Date Open: Apr 20 2012 12:59PM  
 Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	MER0412S1_00016	MER0412S2_00016
S0						
S0.2						
S0.5						
S1.0						
S2.0						
S5.0						
S10.0						
ICV-600-77659/8				50 mL		1.5 mL
ICB-600-77659/9						
CRA-600-77659/10						
CCV-600-77659/11				50 mL	.1 mL	
CCB-600-77659/12				50 mL		1.5 mL
MB-600-77591/7-A						
LCS-600-77591/8-A						
LB-600-77501/1-D						
600-53726-A-1-F		7470A	P			
600-53710-A-1-C		7470A	P			
600-53710-A-1-D-D		7470A	P			
U						
600-53710-A-1-E-M		7470A	P			
S						
600-53716-A-1-C		7470A	P			
600-53716-A-2-E		7470A	P			
600-53716-A-3-C		7470A	P			
CCV-600-77659/23		7470A		50 mL		1.5 mL
CCB-600-77659/24		7470A				
U		7470A	P			

# Metals Worksheet

Batch Number: 600-77659  
 Method: 245.1  
 Analyst: Patel, Silen R

Date Open: Apr 20 2012 12:59PM  
 Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	MER0412S1_00016	MER0412S2_00016
600-53716-A-3-E~M S		7470A	P			
600-53716-A-4-C		7470A	P			
600-53716-A-5-C		7470A	P			
600-53716-A-6-C		7470A	P			
600-53716-A-7-C		7470A	P			
LB~600-77499/1-C						
600-53560-A-1-H		7470A	P			
600-53685-A-1-F		7470A	P			
600-53812-C-1-A		245.1	T			
CCV~600-77659/35		245.1		50 mL		1.5 mL
CCB~600-77659/36		245.1				
600-53812-C-1-B~D U		245.1	T			
600-53812-C-1-C~M S		245.1	T			
600-53797-J-1-B		245.1	T			
600-53827-E-1-A		245.1	T			
600-53710-A-1-C~S D~5		7470A	P			
600-53812-C-1-A~S D~5		245.1	T			
CCV~600-77659/43		245.1		50 mL		1.5 mL
CCB~600-77659/44		245.1				





Method: Mercury Soil &amp; Water

Page 2

Date: 4/20/2012 13:14:05

2 [1.0] 0.0124 0.0669 0.0132 13:06:59 Yes  
 Mean: [1.0] 0.0124  
 SD: 0.0 0.0000  
 %RSD: 0.0 0.01  
 Standard number 3 applied. [1.0]  
 Correlation Coef.: 0.999996 Slope: 0.01238 Intercept: 0.00000

Sequence No.: 5 Autosampler Location: 6  
 Sample ID: S2.0 Date Collected: 4/20/2012 13:07:01  
 Analyst: Data Type: Original

## Replicate Data: S2.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[2.0]	[2.0]	0.0248	0.1283	0.0257	13:08:08	Yes
2	[2.0]	[2.0]	0.0245	0.1267	0.0253	13:08:51	Yes
Mean:	[2.0]	[2.0]	0.0246				
SD:	0.0	0.0	0.0002				
%RSD:	0.0	0.0	0.90				
Standard number 4 applied. [2.0]							
Correlation Coef.: 0.999997 Slope: 0.01232 Intercept: 0.00002							

Sequence No.: 6 Autosampler Location: 7  
 Sample ID: S5.0 Date Collected: 4/20/2012 13:08:53  
 Analyst: Data Type: Original

## Replicate Data: S5.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[5.0]	[5.0]	0.0613	0.3127	0.0621	13:09:58	Yes
2	[5.0]	[5.0]	0.0609	0.3108	0.0618	13:10:40	Yes
Mean:	[5.0]	[5.0]	0.0611				
SD:	0.0	0.0	0.0002				
%RSD:	0.0	0.0	0.39				
Standard number 5 applied. [5.0]							
Correlation Coef.: 0.999992 Slope: 0.01221 Intercept: 0.00009							

Sequence No.: 7 Autosampler Location: 8  
 Sample ID: S10.0 Date Collected: 4/20/2012 13:11:27  
 Analyst: Data Type: Original

## Replicate Data: S10.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[10.0]	[10.0]	0.1193	0.6088	0.1202	13:12:33	Yes
2	[10.0]	[10.0]	0.1181	0.6003	0.1190	13:13:15	Yes
Mean:	[10.0]	[10.0]	0.1187				
SD:	0.0	0.0	0.0009				
%RSD:	0.0	0.0	0.73				
Standard number 6 applied. [10.0]							
Correlation Coef.: 0.999897 Slope: 0.01189 Intercept: 0.00044							

## Calibration data for Hg 253.7

Equation: Linear, Calculated Intercept

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
S0	0.0000	0	-0.037	0.00	6.0
S0.2	0.0025	0.2	0.172	0.00	0.9
S0.5	0.0062	0.5	0.482	0.00	1.7
S1.0	0.0124	1.0	1.004	0.00	0.0
S2.0	0.0246	2.0	2.036	0.00	0.9
S5.0	0.0611	5.0	5.099	0.00	0.4
S10.0	0.1187	10.0	9.945	0.00	0.7
Correlation Coef.: 0.999897 Slope: 0.01189 Intercept: 0.00044					

Method: Mercury Soil &amp; Water

Page 3

Date: 4/20/2012 13:22:11

Sequence No.: 8

Autosampler Location: 1

Sample ID: ICV

Date Collected: 4/20/2012 13:14:02

Analyst:

Data Type: Original

Replicate Data: ICV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.999	2.999	0.0361	0.1863	0.0370	13:15:12	Yes
2	2.999	2.999	0.0361	0.1865	0.0370	13:15:54	Yes
Mean:	2.999	2.999	0.0361				
SD:	0.000	0.000	0.0000				
%RSD:	0.008	0.008	0.01				

QC value within limits for Hg 253.7 Recovery = 99.97%  
All analyte(s) passed QC.

Sequence No.: 9

Autosampler Location: 2

Sample ID: ICB

Date Collected: 4/20/2012 13:15:56

Analyst:

Data Type: Original

Replicate Data: ICB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.039	-0.039	-0.0000	0.0042	0.0008	13:17:01	Yes
2	-0.039	-0.039	-0.0000	0.0043	0.0008	13:17:43	Yes
Mean:	-0.039	-0.039	-0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	0.715	0.715	14.19				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

Sequence No.: 10

Autosampler Location: 3

Sample ID: CRA

Date Collected: 4/20/2012 13:17:45

Analyst:

Data Type: Original

Replicate Data: CRA

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.170	0.170	0.0025	0.0174	0.0033	13:18:50	Yes
2	0.158	0.158	0.0023	0.0161	0.0032	13:19:32	Yes
Mean:	0.164	0.164	0.0024				
SD:	0.009	0.009	0.0001				
%RSD:	5.272	5.272	4.30				

QC value within limits for Hg 253.7 Recovery = 81.91%  
All analyte(s) passed QC.

Sequence No.: 11

Autosampler Location: 1

Sample ID: CCV

Date Collected: 4/20/2012 13:19:34

Analyst:

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.065	3.065	0.0369	0.1895	0.0377	13:20:40	Yes
2	3.086	3.086	0.0371	0.1899	0.0380	13:21:22	Yes
Mean:	3.076	3.076	0.0370				
SD:	0.015	0.015	0.0002				
%RSD:	0.486	0.486	0.48				

QC value within limits for Hg 253.7 Recovery = 102.52%  
All analyte(s) passed QC.

Sequence No.: 12

Autosampler Location: 2

Sample ID: CCB

Date Collected: 4/20/2012 13:22:08

Analyst:

Data Type: Original







Method: Mercury Soil &amp; Water

Page 6

Date: 4/20/2012 13:48:39

Mean: 0.213      0.213      0.0030  
 SD: 0.002      0.002      0.0000  
 %RSD: 1.107      1.107      0.94

Sequence No.: 22      Autosampler Location: 47  
 Sample ID: 600-53716-a-3-c      Date Collected: 4/20/2012 13:41:18  
 Analyst: SRP      Data Type: Original

## Replicate Data: 600-53716-a-3-c

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.027	-0.027	0.0001	0.0058	0.0010	13:42:23	Yes
2	-0.025	-0.025	0.0001	0.0054	0.0010	13:43:06	Yes
Mean:	-0.026	-0.026	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	5.684	5.684	13.49				

Sequence No.: 23      Autosampler Location: 1  
 Sample ID: CCV      Date Collected: 4/20/2012 13:43:07  
 Analyst:      Data Type: Original

## Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.963	2.963	0.0357	0.1843	0.0365	13:44:13	Yes
2	2.963	2.963	0.0357	0.1854	0.0365	13:44:55	Yes
Mean:	2.963	2.963	0.0357				
SD:	0.000	0.000	0.0000				
%RSD:	0.015	0.015	0.02				

QC value within limits for Hg 253.7 Recovery = 98.77%  
 All analyte(s) passed QC.

Sequence No.: 24      Autosampler Location: 2  
 Sample ID: CCB      Date Collected: 4/20/2012 13:44:57  
 Analyst:      Data Type: Original

## Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.030	-0.030	0.0001	0.0058	0.0009	13:46:02	Yes
2	-0.027	-0.027	0.0001	0.0053	0.0010	13:46:44	Yes
Mean:	-0.029	-0.029	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	8.843	8.843	29.76				

QC value within limits for Hg 253.7 Recovery = Not calculated  
 All analyte(s) passed QC.

Sequence No.: 25      Autosampler Location: 48  
 Sample ID: 600-53716-a-3-d du      Date Collected: 4/20/2012 13:46:46  
 Analyst: SRP      Data Type: Original

## Replicate Data: 600-53716-a-3-d du

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.028	-0.028	0.0001	0.0048	0.0010	13:47:52	Yes
2	-0.029	-0.029	0.0001	0.0045	0.0010	13:48:34	Yes
Mean:	-0.028	-0.028	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	1.788	1.788	5.81				

Sequence No.: 26      Autosampler Location: 49  
 Sample ID: 600-53716-a-3-e ms      Date Collected: 4/20/2012 13:48:36  
 Analyst: SRP      Data Type: Original

Method: Mercury Soil &amp; Water

Page 7

Date: 4/20/2012 13:58:36

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Replicate Data: 600-53716-a-3-e.ms

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.071	3.071	0.0370	0.1894	0.0378	13:49:47	Yes
2	3.069	3.069	0.0369	0.1887	0.0378	13:50:29	Yes
Mean:	3.070	3.070	0.0369				
SD:	0.001	0.001	0.0000				
%RSD:	0.042	0.042	0.04				

Sequence No.: 27

Autosampler Location: 50

Sample ID: 600-53716-a-4-c

Date Collected: 4/20/2012 13:51:17

Analyst: SRP

Data Type: Original

-----  
Replicate Data: 600-53716-a-4-c

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.009	0.009	0.0005	0.0070	0.0014	13:52:23	Yes
2	0.005	0.005	0.0005	0.0067	0.0014	13:53:05	Yes
Mean:	0.007	0.007	0.0005				
SD:	0.003	0.003	0.0000				
%RSD:	37.31	37.31	5.84				

Sequence No.: 28

Autosampler Location: 51

Sample ID: 600-53716-a-5-c

Date Collected: 4/20/2012 13:53:07

Analyst: SRP

Data Type: Original

-----  
Replicate Data: 600-53716-a-5-c

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.027	-0.027	0.0001	0.0058	0.0010	13:54:12	Yes
2	-0.013	-0.013	0.0003	0.0071	0.0011	13:54:54	Yes
Mean:	-0.020	-0.020	0.0002				
SD:	0.010	0.010	0.0001				
%RSD:	52.22	52.22	60.96				

Sequence No.: 29

Autosampler Location: 52

Sample ID: 600-53716-a-6-c

Date Collected: 4/20/2012 13:54:56

Analyst: SRP

Data Type: Original

-----  
Replicate Data: 600-53716-a-6-c

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.026	-0.026	0.0001	0.0064	0.0010	13:56:01	Yes
2	-0.025	-0.025	0.0001	0.0059	0.0010	13:56:43	Yes
Mean:	-0.026	-0.026	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	3.541	3.541	8.01				

Sequence No.: 30

Autosampler Location: 53

Sample ID: 600-53716-a-7-c

Date Collected: 4/20/2012 13:56:44

Analyst: SRP

Data Type: Original

-----  
Replicate Data: 600-53716-a-7-c

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.023	-0.023	0.0002	0.0058	0.0010	13:57:49	Yes
2	-0.024	-0.024	0.0002	0.0052	0.0010	13:58:31	Yes
Mean:	-0.024	-0.024	0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	3.929	3.929	7.00				



Method: Mercury Soil &amp; Water

Page 8

Date: 4/20/2012 14:07:47

Sequence No.: 31

Autosampler Location: 54

Sample ID: lb 600-77499/1-c

Date Collected: 4/20/2012 13:58:33

Analyst: SRP

Data Type: Original

-----  
Replicate Data: lb 600-77499/1-c

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.027	-0.027	0.0001	0.0055	0.0010	13:59:42	Yes
2	-0.040	-0.040	-0.0000	0.0031	0.0008	14:00:25	Yes
Mean:	-0.033	-0.033	0.0000				
SD:	0.009	0.009	0.0001				
%RSD:	27.21	27.21	249.92				

Sequence No.: 32

Autosampler Location: 55

Sample ID: 600-53560-a-1-h

Date Collected: 4/20/2012 14:00:26

Analyst: SRP

Data Type: Original

-----  
Replicate Data: 600-53560-a-1-h

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.032	-0.032	0.0001	0.0050	0.0009	14:01:33	Yes
2	-0.031	-0.031	0.0001	0.0054	0.0009	14:02:15	Yes
Mean:	-0.032	-0.032	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	4.122	4.122	23.53				

Sequence No.: 33

Autosampler Location: 56

Sample ID: 600-53685-a-1-f

Date Collected: 4/20/2012 14:02:16

Analyst: SRP

Data Type: Original

-----  
Replicate Data: 600-53685-a-1-f

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.028	-0.028	0.0001	0.0053	0.0010	14:03:22	Yes
2	-0.037	-0.037	0.0000	0.0044	0.0009	14:04:04	Yes
Mean:	-0.033	-0.033	0.0001				
SD:	0.006	0.006	0.0001				
%RSD:	18.32	18.32	139.38				

Sequence No.: 34

Autosampler Location: 57

Sample ID: 600-53812-c-1-a

Date Collected: 4/20/2012 14:04:05

Analyst: SRP

Data Type: Original

-----  
Replicate Data: 600-53812-c-1-a

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.098	0.098	0.0016	0.0116	0.0025	14:05:11	Yes
2	0.114	0.114	0.0018	0.0134	0.0026	14:05:53	Yes
Mean:	0.106	0.106	0.0017				
SD:	0.011	0.011	0.0001				
%RSD:	10.30	10.30	7.64				

Sequence No.: 35

Autosampler Location: 1

Sample ID: CCV

Date Collected: 4/20/2012 14:05:54

Analyst:

Data Type: Original

-----  
Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.953	2.953	0.0356	0.1833	0.0364	14:07:01	Yes
2	2.933	2.933	0.0353	0.1809	0.0362	14:07:43	Yes
Mean:	2.943	2.943	0.0354				
SD:	0.014	0.014	0.0002				

Method: Mercury Soil &amp; Water

Page 9

Date: 4/20/2012 14:17:03

%RSD: 0.461 0.461 0.46

QC value within limits for Hg 253.7 Recovery = 98.10%

All analyte(s) passed QC.

Sequence No.: 36

Autosampler Location: 2

Sample ID: CCB

Date Collected: 4/20/2012 14:07:49

Analyst:

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.029	-0.029	0.0001	0.0049	0.0010	14:08:54	Yes
2	-0.033	-0.033	0.0001	0.0047	0.0009	14:09:36	Yes
Mean:	-0.031	-0.031	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	9.240	9.240	44.71				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 37

Autosampler Location: 58

Sample ID: 600-53812-c-1-b du

Date Collected: 4/20/2012 14:09:38

Analyst: SRP

Data Type: Original

Replicate Data: 600-53812-c-1-b du

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.007	-0.007	0.0004	0.0054	0.0012	14:10:44	Yes
2	0.001	0.001	0.0005	0.0070	0.0013	14:11:26	Yes
Mean:	-0.003	-0.003	0.0004				
SD:	0.006	0.006	0.0001				
%RSD:	182.9	182.9	17.06				

Sequence No.: 38

Autosampler Location: 59

Sample ID: 600-53812-c-1-c ms

Date Collected: 4/20/2012 14:11:28

Analyst: SRP

Data Type: Original

Replicate Data: 600-53812-c-1-c ms

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.068	3.068	0.0369	0.1890	0.0378	14:12:33	Yes
2	3.045	3.045	0.0367	0.1864	0.0375	14:13:15	Yes
Mean:	3.057	3.057	0.0368				
SD:	0.017	0.017	0.0002				
%RSD:	0.546	0.546	0.54				

Sequence No.: 39

Autosampler Location: 60

Sample ID: 600-53797-j-1-b

Date Collected: 4/20/2012 14:14:03

Analyst: SRP

Data Type: Original

Replicate Data: 600-53797-j-1-b

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.027	-0.027	0.0001	0.0051	0.0010	14:15:10	Yes
2	-0.020	-0.020	0.0002	0.0061	0.0011	14:15:52	Yes
Mean:	-0.023	-0.023	0.0002				
SD:	0.005	0.005	0.0001				
%RSD:	22.76	22.76	38.59				

Sequence No.: 40

Autosampler Location: 61

Sample ID: 600-53827-e-1-a

Date Collected: 4/20/2012 14:15:54

Analyst: SRP

Data Type: Original



Method: Mercury Soil &amp; Water

Page 10

Date: 4/20/2012 14:25:09

Replicate Data: 600-53827-e-1-a

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.069	-0.069	-0.0004	0.0031	0.0005	14:16:59	Yes
2	-0.059	-0.059	-0.0003	0.0042	0.0006	14:17:46	Yes
Mean:	-0.064	-0.064	-0.0003				
SD:	0.007	0.007	0.0001				
%RSD:	11.35	11.35	26.79				

Sequence No.: 41

Autosampler Location: 62

Sample ID: SD-600-53710-a-1-c@5

Date Collected: 4/20/2012 14:17:47

Analyst: SRP

Data Type: Original

Replicate Data: SD-600-53710-a-1-c@5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.050	-0.050	-0.0002	0.0039	0.0007	14:18:54	Yes
2	-0.057	-0.057	-0.0002	0.0024	0.0006	14:19:36	Yes
Mean:	-0.054	-0.054	-0.0002				
SD:	0.005	0.005	0.0001				
%RSD:	9.385	9.385	30.29				

Sequence No.: 42

Autosampler Location: 63

Sample ID: SD-600-53812-c-1-a@5

Date Collected: 4/20/2012 14:19:38

Analyst: SRP

Data Type: Original

Replicate Data: SD-600-53812-c-1-a@5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.031	-0.031	0.0001	0.0052	0.0009	14:20:43	Yes
2	-0.035	-0.035	0.0000	0.0045	0.0009	14:21:25	Yes
Mean:	-0.033	-0.033	0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	8.284	8.284	68.95				

Sequence No.: 43

Autosampler Location: 1

Sample ID: CCV

Date Collected: 4/20/2012 14:21:27

Analyst:

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.975	2.975	0.0358	0.1839	0.0367	14:22:33	Yes
2	2.974	2.974	0.0358	0.1820	0.0367	14:23:15	Yes
Mean:	2.975	2.975	0.0358				
SD:	0.001	0.001	0.0000				
%RSD:	0.033	0.033	0.03				

QC value within limits for Hg 253.7 Recovery = 99.16%

All analyte(s) passed QC.

Sequence No.: 44

Autosampler Location: 2

Sample ID: CCB

Date Collected: 4/20/2012 14:23:17

Analyst:

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.032	-0.032	0.0001	0.0046	0.0009	14:24:22	Yes
2	-0.035	-0.035	0.0000	0.0046	0.0009	14:25:04	Yes
Mean:	-0.034	-0.034	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	6.062	6.062	62.84				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

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METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-53710-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 77501 Batch Start Date: 04/18/12 18:00 Batch Analyst: Patel, Silen R  
 Batch Method: 1311 Batch End Date: 04/19/12 10:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	METTLERPE2 00057
LB 600-77501/1		1311, 3010A, 6010B		2000 mL
600-53710-A-1	IDW-4	1311, 3010A, 6010B	P	2000 mL

Batch Notes	
Room Temperature during Rotation	21-24 Degrees C

Basis	Basis Description
P	TCLP



METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-53710-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 77589 Batch Start Date: 04/20/12 06:47 Batch Analyst: Lige, Derrick C  
 Batch Method: 3010A Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	METHCL 00037	METHNO3 00027	METSPIKEA 00011	METSPIKEB 00012
MB 600-77589/1		3010A, 6010B		50 mL	50 mL	2.5 mL	2.5 mL		
LCS 600-77589/2		3010A, 6010B		50 mL	50 mL	2.5 mL	2.5 mL	250 uL	250 uL
LB 600-77501/1-A		3010A, 6010B		5 mL	50 mL	2.5 mL	2.5 mL		
600-53710-A-1-A	IDW-4	3010A, 6010B	P	5 mL	50 mL	2.5 mL	2.5 mL		

Batch Notes	
Hood ID or number	M-5
Hot Block ID number	#04
Pipette ID	M-11
Temperature	95 Degrees C.
ID number of the thermometer	#555

Basis	Basis Description
P	TCLP

- 1
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- 13
- 14
- 15
- 16
- 17

METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-53710-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 77850 Batch Start Date: 04/24/12 11:27 Batch Analyst: Racelis, Froilan Noel E  
 Batch Method: 3050B Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	METH202 00020	METH202 00022	METHCL 00037
MB 600-77850/1		3050B, 6010B		CALC NOT SET TO RUN	1.00 g	50 mL	4 mL		2.5 mL
LCS 600-77850/2		3050B, 6010B		CALC NOT SET TO RUN	0.50 g	50 mL	4 mL		2.5 mL
600-53710-B-1	IDW-4	3050B, 6010B	T	CALC NOT SET TO RUN	1.02 g	50 mL	4 mL		2.5 mL
600-53710-B-1	IDW-4	3050B, 6010B	T	CALC NOT SET TO RUN	1.05 g	50 mL	4 mL		2.5 mL
600-53710-B-1	IDW-4	3050B, 6010B	T	CALC NOT SET TO RUN	1.04 g	50 mL	4 mL		2.5 mL
600-53710-B-1	IDW-4	3050B, 6010B	T	CALC NOT SET TO RUN	1.03 g	50 mL	4 mL		2.5 mL
MB 600-77850/14		3050B, 6010B		CALC NOT SET TO RUN	1.00 g	50 mL	4 mL	4 mL	2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	METHNO3 00027	METSICSS 00016	METSPIKEA 00011	METSPIKEB 00012
MB 600-77850/1		3050B, 6010B		5 mL			
LCS 600-77850/2		3050B, 6010B		5 mL	0.5 g		
600-53710-B-1	IDW-4	3050B, 6010B	T	5 mL			
600-53710-B-1	IDW-4	3050B, 6010B	T	5 mL			
600-53710-B-1	IDW-4	3050B, 6010B	T	5 mL		250 uL	
600-53710-B-1	IDW-4	3050B, 6010B	T	5 mL		250 uL	
600-53710-B-1	IDW-4	3050B, 6010B	T	5 mL			
MB 600-77850/14		3050B, 6010B		5 mL			

Batch Notes	
Balance ID	B-6
Hood ID or number	M5
Hot Block ID number	HB 02
Temperature	95 Degrees C
ID number of the thermometer	517

Basis	Basis Description
T	Total/NA

- 1
- 2
- 3
- 4
- 5
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- 11
- 12
- 13
- 14
- 15
- 16
- 17

METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-53710-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 77501 Batch Start Date: 04/18/12 18:00 Batch Analyst: Patel, Silen R  
 Batch Method: 1311 Batch End Date: 04/19/12 10:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	METTLER2 00057
LB 600-77501/1		1311, 7470A, 7470A		2000 mL
600-53710-A-1	IDW-4	1311, 7470A, 7470A	P	2000 mL

Batch Notes	
Room Temperature during Rotation	21-24 Degrees C

Basis	Basis Description
P	TCLP

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
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- 13
- 14
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- 16
- 17

METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-53710-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 77591 Batch Start Date: 04/20/12 07:57 Batch Analyst: Patel, Silen R  
 Batch Method: 7470A Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MER0312PP 00001	MER0412HS 00002	MER0412KM 00004	MER0412S2 00015
MB 600-77591/7		7470A, 7470A		40 mL	40 mL	3.2 mL	3 mL	6 mL	
LCS 600-77591/8		7470A, 7470A		50 mL	50 mL	3.2 mL	3 mL	6 mL	1.5 mL
LB 600-77501/1-A		7470A, 7470A		40 mL	40 mL	3.2 mL	3 mL	6 mL	
600-53710-A-1-A	IDW-4	7470A, 7470A	P	40 mL	40 mL	3.2 mL	3 mL	6 mL	
600-53710-A-1-A	IDW-4	7470A, 7470A	P	40 mL	40 mL	3.2 mL	3 mL	6 mL	
600-53710-A-1-A	IDW-4	7470A, 7470A	P	40 mL	40 mL	3.2 mL	3 mL	6 mL	1.2 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MERSUL 00025	METHNO3 00027
MB 600-77591/7		7470A, 7470A		2 mL	1 mL
LCS 600-77591/8		7470A, 7470A		2 mL	1 mL
LB 600-77501/1-A		7470A, 7470A		2 mL	1 mL
600-53710-A-1-A	IDW-4	7470A, 7470A	P	2 mL	1 mL
600-53710-A-1-A	IDW-4	7470A, 7470A	P	2 mL	1 mL
600-53710-A-1-A	IDW-4	7470A, 7470A	P	2 mL	1 mL

Batch Notes	

Basis	Basis Description
P	TCLP

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# GENERAL CHEMISTRY

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-53710-1

SDG No.: \_\_\_\_\_

Project: Exide Recycling Center, Frisco TX Projec

Client Sample ID	Lab Sample ID
<u>IDW-4</u>	<u>600-53710-1</u>

- 1
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- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Comments:

\_\_\_\_\_



1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: IDW-4 Lab Sample ID: 600-53710-1  
 Lab Name: TestAmerica Houston Job No.: 600-53710-1  
 SDG ID.: \_\_\_\_\_  
 Matrix: Solid Date Sampled: 04/17/2012 13:00  
 Reporting Basis: WET Date Received: 04/18/2012 09:56

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Reactive	85.5	250	85.5	ug/Kg	U		1	9012
	Sulfide, Reactive	14.0	50.0	14.0	mg/Kg	U		1	7.4.4

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1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: <u>IDW-4</u>	Lab Sample ID: <u>600-53710-1</u>
Lab Name: <u>TestAmerica Houston</u>	Job No.: <u>600-53710-1</u>
SDG ID.: _____	
Matrix: <u>Solid</u>	Date Sampled: <u>04/17/2012 13:00</u>
Reporting Basis: <u>WET</u>	Date Received: <u>04/18/2012 09:56</u>

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	8.22	0.0100		SU			1	9045C
	Flashpoint	>212	1.00		Degrees F			1	D92

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2-IN  
CALIBRATION QUALITY CONTROL  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-53710-1  
 SDG No.: \_\_\_\_\_  
 Analyst: MB Batch Start Date: 04/21/2012  
 Reporting Units: SU Analytical Batch No.: 77687

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
24	CCV	15:00	pH	7.000	7.00	100	99-101		WETRP7BUF_00015
37	CCV	15:00	pH	7.010	7.00	100	99-101		WETRP7BUF_00015
46	CCV	15:00	pH	7.010	7.00	100	99-101		WETRP7BUF_00015

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Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN  
CALIBRATION QUALITY CONTROL  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-53710-1  
 SDG No.: \_\_\_\_\_  
 Analyst: MB Batch Start Date: 04/23/2012  
 Reporting Units: Degrees F Analytical Batch No.: 77742

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
10	CCV	09:15	Flashpoint	81.82	81.0	101	96.91-103.09		WETRPXYLEN_00005

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Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN  
METHOD BLANK  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-53710-1

SDG No.: \_\_\_\_\_

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 77665 Date: 04/20/2012 14:15 Prep Batch: 77652 Date: 04/20/2012 13:58							
7.4.4	MB 600-77652/1-A	Sulfide, Reactive	14.0	U	mg/Kg	50.0	1
Batch ID: 77795 Date: 04/20/2012 14:57 Prep Batch: 77652 Date: 04/20/2012 13:58							
9012	MB 600-77652/1-A	Cyanide, Reactive	85.5	U	ug/Kg	250	1
Batch ID: 77742 Date: 04/23/2012 09:15							
D92	MB 600-77742/1	Flashpoint	>186		Degrees F	1.00	1

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7A-IN  
LAB CONTROL SAMPLE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-53710-1

SDG No.: \_\_\_\_\_

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 77665 Date: 04/20/2012 14:15 Prep Batch: 77652 Date: 04/20/2012 13:58 LCS Source: SULFTSLCS_00507											
7.4.4	LCS 600-77652/2-A	Sulfide, Reactive	14.0	U	mg/Kg	2060	0	0-100			
Batch ID: 77795 Date: 04/20/2012 14:57 Prep Batch: 77652 Date: 04/20/2012 13:58 LCS Source: WETRCYANID_00016											
9012	LCS 600-77652/2-A	Cyanide, Reactive	59830		ug/Kg	1000000	6	0-100			
Batch ID: 77687 Date: 04/21/2012 15:00 LCS Source: WETRP7BUF_00015											
9045C	LCS 600-77687/25	pH	7.010		SU	7.00	100	99-101			
Batch ID: 77742 Date: 04/23/2012 09:15 LCS Source: WETRPXYLEN_00005											
D92	LCS 600-77742/2	Flashpoint	81.82		Degrees F	81.0	101	96.91-1 03.09			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN



9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-53710-1  
 SDG Number: \_\_\_\_\_  
 Matrix: Solid Instrument ID: NOEQUIP  
 Method: 9012 MDL Date: 04/01/2011 13:51  
 Prep Method: 7.3.3

Analyte	Wavelength/ Mass	RL (ug/Kg)	MDL (ug/Kg)
Cyanide, Reactive		250	85.52

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9-IN  
 CALIBRATION BLANK DETECTION LIMITS  
 GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-53710-1  
 SDG Number: \_\_\_\_\_  
 Matrix: Solid Instrument ID: NOEQUIP  
 Method: 9012 XMDL Date: 06/15/2008 15:59

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Cyanide, Reactive		10	0.72665

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9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-53710-1  
 SDG Number: \_\_\_\_\_  
 Matrix: Solid Instrument ID: NOEQUIP  
 Method: 7.4.4 MDL Date: 06/13/2008 18:02  
 Prep Method: 7.3.4

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Sulfide, Reactive		50	13.99

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9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-53710-1  
SDG Number: \_\_\_\_\_  
Matrix: Solid Instrument ID: NOEQUIP  
Method: 7.4.4 XMDL Date: 06/13/2008 18:03

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfide, Reactive		5	1.399

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9-IN  
 DETECTION LIMITS  
 GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-53710-1  
 SDG Number: \_\_\_\_\_  
 Matrix: Solid Instrument ID: NOEQUIP  
 Method: 9045C RL Date: 07/03/2008 14:00

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.01	

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9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-53710-1  
SDG Number: \_\_\_\_\_  
Matrix: Solid Instrument ID: NOEQUIP  
Method: 9045C XRL Date: 07/03/2008 14:02

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.01	

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9-IN  
 DETECTION LIMITS  
 GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-53710-1  
 SDG Number: \_\_\_\_\_  
 Matrix: Solid Instrument ID: NOEQUIP  
 Method: D92 RL Date: 11/09/2005 14:49

Analyte	Wavelength/ Mass	RL (Degrees	
Flashpoint		1	

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9-IN  
 CALIBRATION BLANK DETECTION LIMITS  
 GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-53710-1  
 SDG Number: \_\_\_\_\_  
 Matrix: Solid Instrument ID: NOEQUIP  
 Method: D92 XRL Date: 06/09/2008 16:44

Analyte	Wavelength/ Mass	XRL (Degrees	
Flashpoint		1	

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9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-53710-1  
 SDG Number: \_\_\_\_\_  
 Matrix: Solid Instrument ID: NOEQUIP  
 Method: Moisture RL Date: 09/05/2005 11:35

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

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12-IN  
PREPARATION LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-53710-1

SDG No.: \_\_\_\_\_

Prep Method: 7.3.3

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 600-77652/1-A	04/20/2012 13:58	77652		10	250
LCS 600-77652/2-A	04/20/2012 13:58	77652		10	250
600-53710-1	04/20/2012 13:58	77652	10		250

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12-IN  
PREPARATION LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-53710-1

SDG No.: \_\_\_\_\_

Prep Method: 7.3.4

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 600-77652/1-A	04/20/2012 13:58	77652		10	250
LCS 600-77652/2-A	04/20/2012 13:58	77652		10	250
600-53710-1	04/20/2012 13:58	77652	10		250

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13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-53710-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: NOEQUIP Method: 7.4.4  
 Start Date: 04/20/2012 14:15 End Date: 04/20/2012 14:15

Lab Sample ID	D / F	Type	Time	Analytes															
				S	2	R	e	a	c										
MB 600-77652/1-A	1	T	14:15	X															
LCS 600-77652/2-A	1	T	14:15	X															
ZZZZZZ			14:15																
ZZZZZZ			14:15																
ZZZZZZ			14:15																
600-53710-1	1	T	14:15	X															
ZZZZZZ			14:15																
ZZZZZZ			14:15																
ZZZZZZ			14:15																
ZZZZZZ			14:15																
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ZZZZZZ			14:15																
ZZZZZZ			14:15																
ZZZZZZ			14:15																

Prep Types  
T = Total/NA

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13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-53710-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: NOEQUIP Method: D92  
 Start Date: 04/23/2012 09:15 End Date: 04/23/2012 09:15

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				F	P																		
MB 600-77742/1	1	T	09:15	X																			
LCS 600-77742/2	1	T	09:15	X																			
ZZZZZZ			09:15																				
ZZZZZZ			09:15																				
ZZZZZZ			09:15																				
ZZZZZZ			09:15																				
ZZZZZZ			09:15																				
600-53710-1	1	T	09:15	X																			
CCV 600-77742/10	1		09:15	X																			

Prep Types  
T = Total/NA

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cyanide

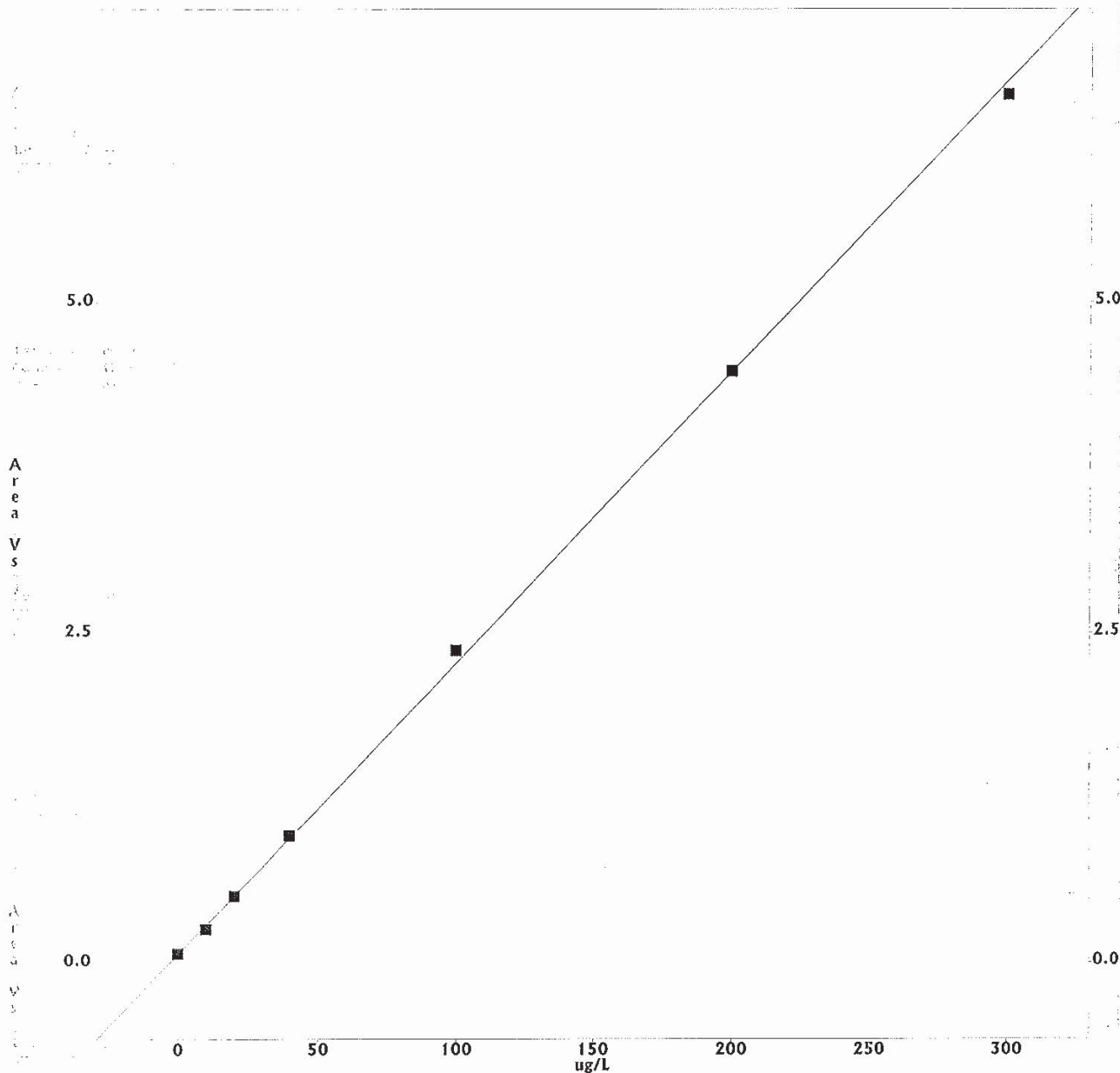
7795-RCYN

Lvl	Area	ug/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	6571188	300	6571188					0.0	0.0	1.6
2	4478477	200	4478477					0.0	0.0	-0.1
3	2369255	100	2369255					0.0	0.0	-4.5
4	971392	40	971392					0.0	0.0	-2.5
5	508954	20	508954					0.0	0.0	-0.0
6	259482	10	259482					0.0	0.0	13.2
7	72922	0	72922					0.0	0.0	

1st Order Poly  
 Conc = 4.542e-005 Area - 3.108e+000  
 r = 0.9997

*RS* 4/30/12

Scaling: None - Weighting: 1/X



Printed: Monday, April 30, 2012 - 12:25 PM

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**OPERATOR:** bgrimm  
**ACQ. TIME:** Apr 20, 2012 14:16:45  
**DATA FILENAME:** C:\OMNION\DATA\CYANIDE\042012CA.FDT  
**METHOD FILENAME:** C:\OMNION\METHODS\CYANIDE\CYANIDE.MET  
**TRAY FILENAME:**

METHOD: EPA 335.3/FIA #1

Method - Ch. 1 (cyanide)

METHOD DESCRIPTION:

**Created:** Oct 7, 2003 14:14:00  
**Modified:** Apr 27, 2012 16:32:48  
**cyanide**

ANALYTE DATA:

**Analyte Name:** cyanide  
**Concentration Units:** ug/L  
**Chemistry:** Direct  
**Inject to Peak Start (s):** 25.0  
**Peak Base Width (s):** 42.000  
**% Width Tolerance:** 50.000  
**Threshold:** 5000.000  
**Autodilution Trigger:** Off  
**QuikChem Method:**

CALIBRATION DATA:

**Levels:**  
 1 : 300.000    2 : 200.000    3 : 100.000    4 : 40.000  
 5 : 20.000    6 : 10.000    7 : 0.000  
**Calibration Rep Handling:** Replace  
**Calibration Fit Type:** 1st Order Poly  
**Force Through Zero:** No  
**Weighting Method:** 1/X  
**Concentration Scaling:** None

**ANALYTE DATA:**  
**Analyte Name:**  
**Concentration Units:**  
**Chemistry:**  
**Inject to Peak Start (s):**  
**Peak Base Width (s):**  
**% Width Tolerance:**  
**Threshold:**  
**Autodilution Trigger:**  
**QuikChem Method:**

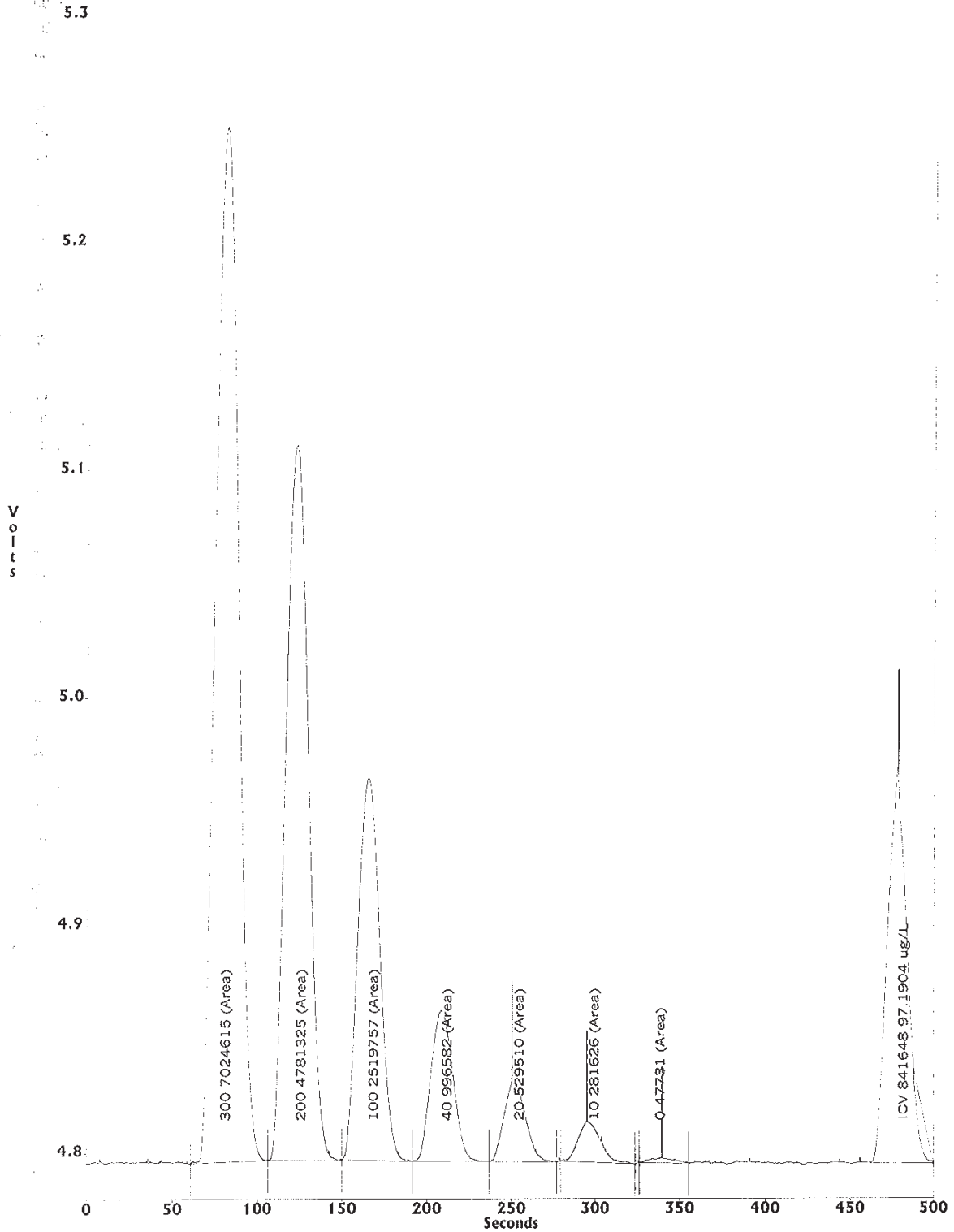
**CALIBRATION DATA:**  
**Levels:**  
 1 : 300.000    2 : 200.000    3 : 100.000    4 : 40.000  
 5 : 20.000    6 : 10.000    7 : 0.000  
**Calibration Rep Handling:**  
**Calibration Fit Type:**  
**Force Through Zero:**  
**Weighting Method:**  
**Concentration Scaling:**



Multi-Channel Table  
 Type: Unknowns  
 Channel Range: 1 to 1 -- Cup Range: 1 to 50

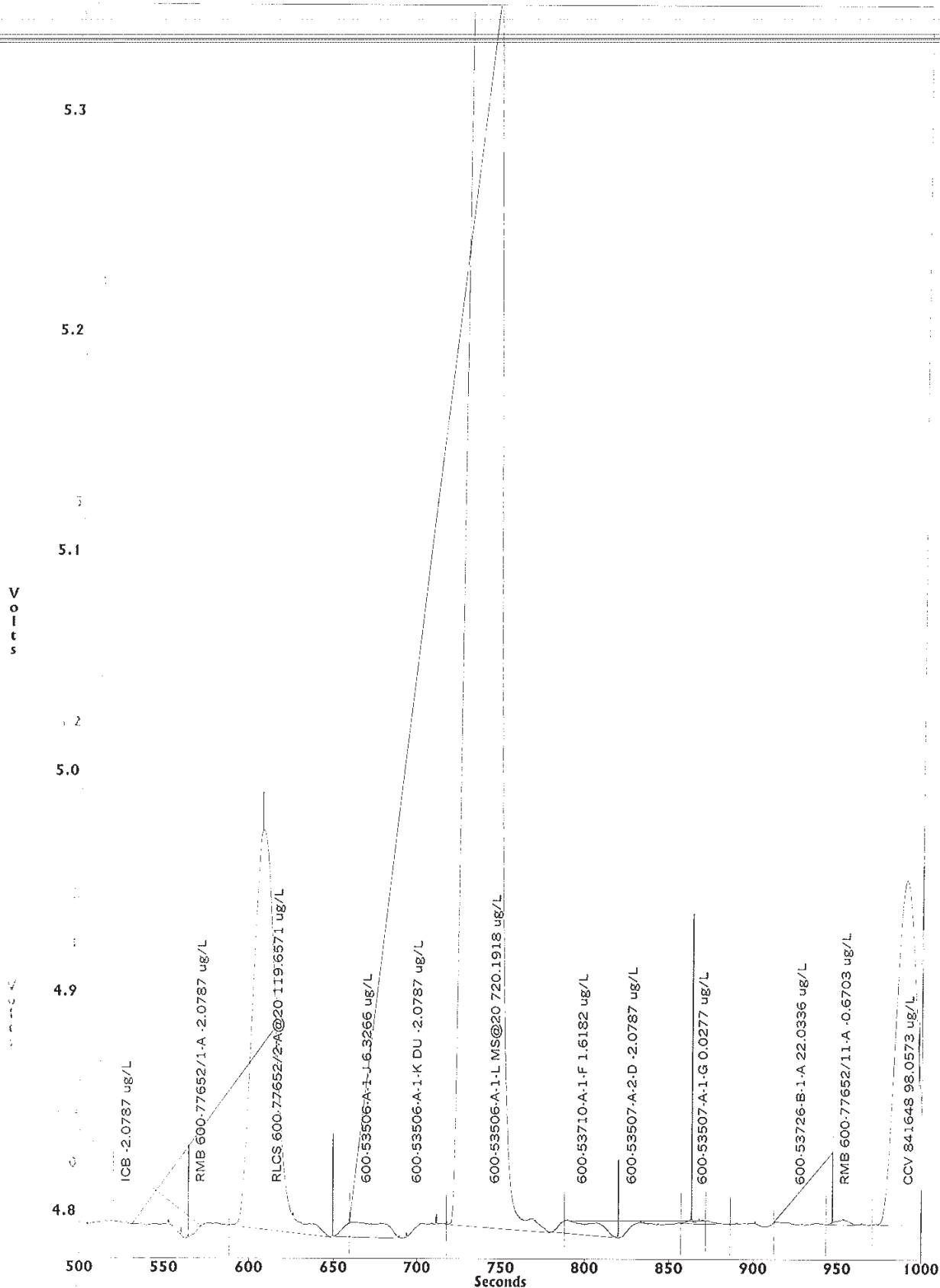
Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	cyanide (ug/L)	Man Dil Factor	Auto Dil Factor	Weight	Unit
1	ICV 841648	20 Apr 2012	14:23:23	1	97.19035	1.0	1.00	1.00000	
2	ICB	20 Apr 2012	14:24:07	1	-2.07874	1.0	1.00	1.00000	
3	RMB 600-77652/1-A	20 Apr 2012	14:24:51	1	-2.07874	1.0	1.00	1.00000	
4	RLCS 600-77652/2-A@20	20 Apr 2012	14:25:33	1	119.65710	1.0	1.00	1.00000	
5	600-53506-A-1-J	20 Apr 2012	14:26:16	1	6.32660	1.0	1.00	1.00000	
6	600-53506-A-1-K DU	20 Apr 2012	14:26:59	1	-2.07874	1.0	1.00	1.00000	
7	600-53506-A-1-L MS@20	20 Apr 2012	14:27:41	1	720.19183	1.0	1.00	1.00000	
8	600-53710-A-1-F	20 Apr 2012	14:28:24	1	1.61817	1.0	1.00	1.00000	
9	600-53507-A-2-D	20 Apr 2012	14:29:07	1	-2.07874	1.0	1.00	1.00000	
10	600-53507-A-1-G	20 Apr 2012	14:29:50	1	0.02774	1.0	1.00	1.00000	
11	600-53726-B-1-A	20 Apr 2012	14:30:32	1	22.03361	1.0	1.00	1.00000	
12	RMB 600-77652/11-A	20 Apr 2012	14:31:14	1	-0.67026	1.0	1.00	1.00000	
13	CCV 841648	20 Apr 2012	14:31:56	1	98.05732	1.0	1.00	1.00000	
14	CCB	20 Apr 2012	14:32:37	1	-2.07874	1.0	1.00	1.00000	
15	RLCS 600-77652/12-A@20	20 Apr 2012	14:33:19	1	228.11943	1.0	1.00	1.00000	
16	600-53675-C-1-A	20 Apr 2012	14:34:03	1	-2.07874	1.0	1.00	1.00000	
17	600-53675-C-1-B DU	20 Apr 2012	14:34:47	1	0.39165	1.0	1.00	1.00000	
18	600-53675-C-1-C MS@20	20 Apr 2012	14:35:30	1	452.57104	1.0	1.00	1.00000	
19	600-53506-A-1-L MS@20	20 Apr 2012	14:36:14	1	94.24294	1.0	1.00	1.00000	
20	600-53675-C-1-C MS@20	20 Apr 2012	14:42:41	1	591.98608	1.0	1.00	1.00000	
21	600-53675-C-1-C MS@40	20 Apr 2012	14:45:54	1	293.17752	1.0	1.00	1.00000	
22	CCV 841648	20 Apr 2012	14:48:16	1	98.27393	1.0	1.00	1.00000	
23	CCB	20 Apr 2012	14:48:59	1	-2.07874	1.0	1.00	1.00000	

Channel 1 - cyanide

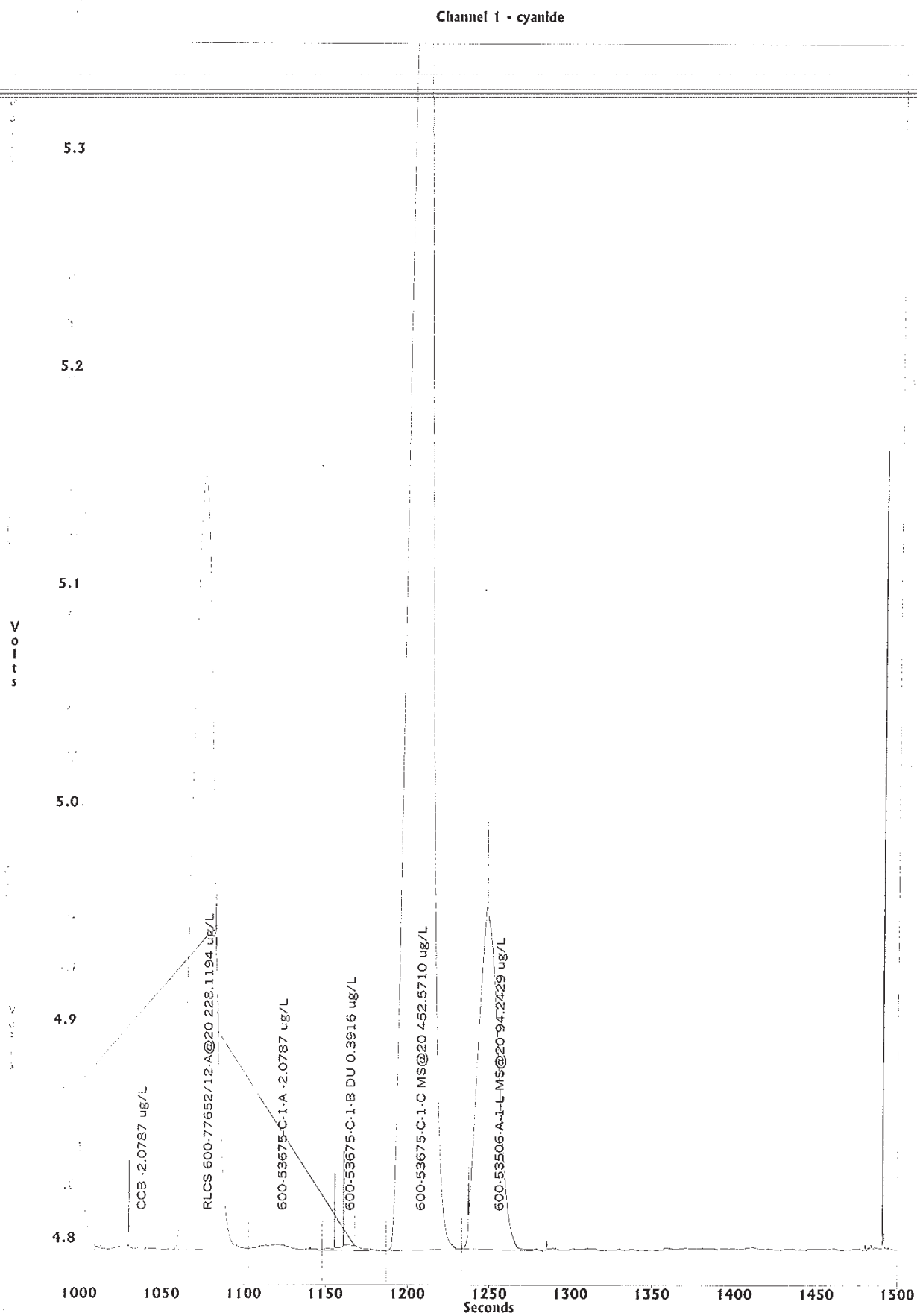


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Channel 1 - cyanide



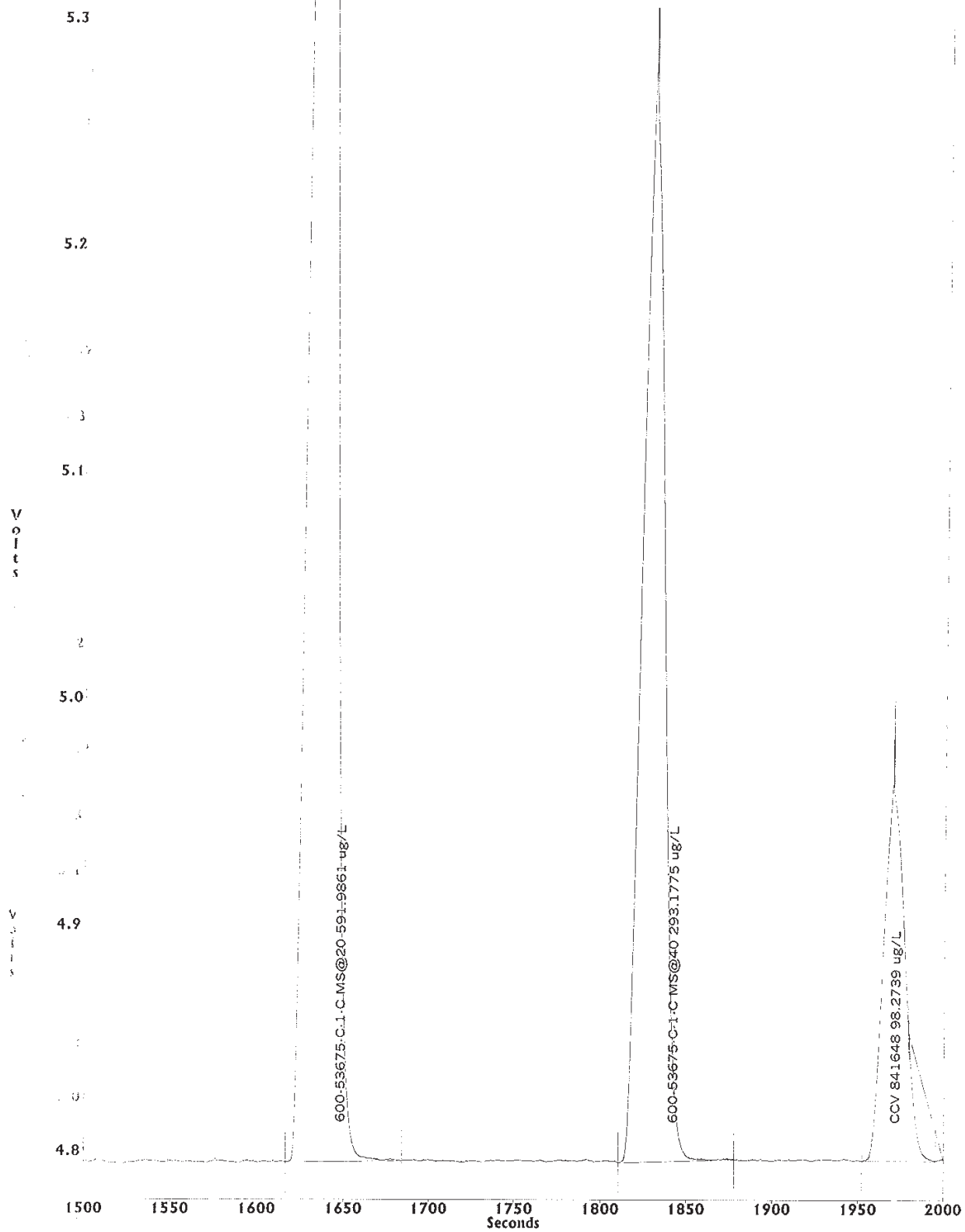
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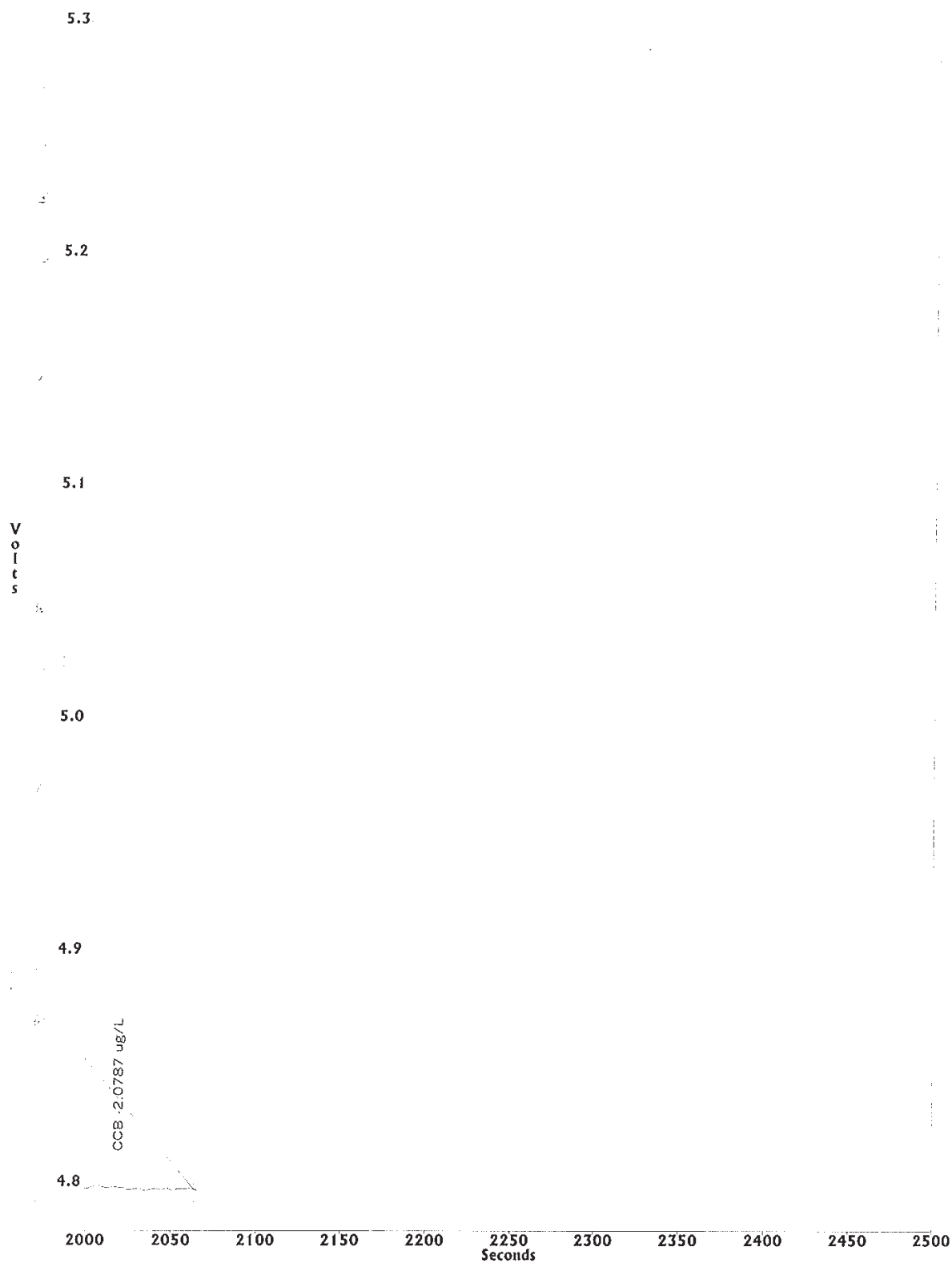
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Channel 1 - cyanide

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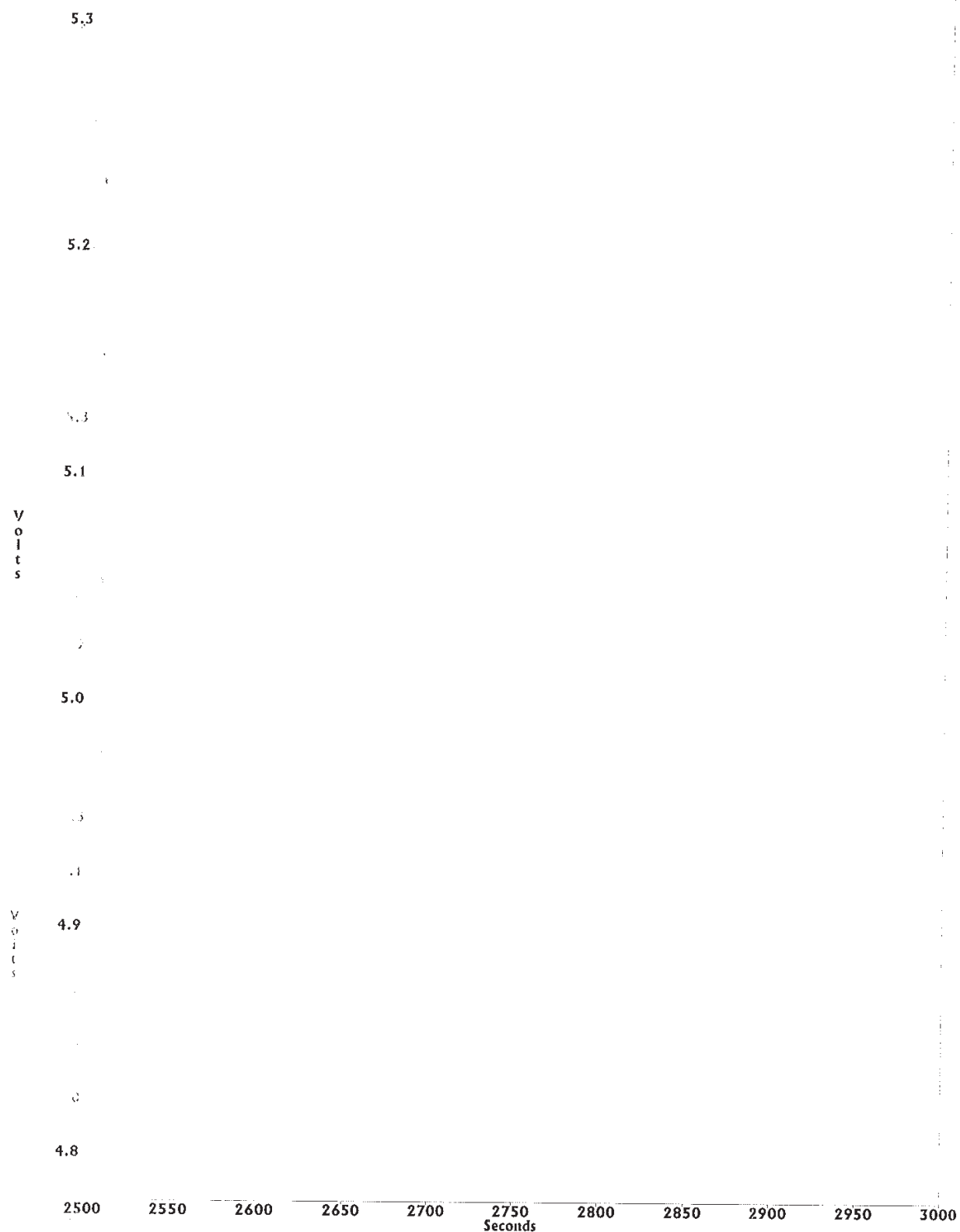


Channel 1 - cyanide



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Channel 1 - cyanide



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TestAmerica Houston

SULFIDE - Titrimetric & Reactive logbook

Method: SM4500-S<sup>2</sup> E or SW9034 (circle one)

Analyst: BBV Batch# 77665 Date: 4/20/12 Time: 1415  
1058

Starch Sol ID: 696004 6N HCL ID: 824545 Sulfide Std ID: 851978

Sample ID	(C) Sample Volume (mL)	(A) 0.025 N* Iodine (mL) ID: <u>809450</u>	(B) 0.025 N* Sodium Thiosulfate (mL) ID: <u>800036</u>	Sulfide [(A-B)/C]*400 (mg/L)	Comments (Reactives X25)
<u>SB</u>	<u>100</u>	<u>10</u>	<u>10</u>	<u>∅</u>	
<u>undistilled 2me/100</u>		<u>20</u>	<u>9.7</u>	<u>2060</u>	
<u>MB</u>	<u>100</u>		<u>∅</u>	<u>∅</u>	
<u>RCS</u>			<u>∅</u>	<u>∅</u>	
<u>600-53506-A-1</u>			<u>∅</u>	<u>∅</u>	
↓ <u>A/DW</u>			<u>∅</u>	<u>∅</u>	
↓ <u>A/MS</u>			<u>∅</u>	<u>∅</u>	
<u>600-53710-A-1</u>			<u>∅</u>	<u>∅</u>	
↓ <u>53507-A-2</u>			<u>∅</u>	<u>∅</u>	
↓ <u>53507-A-1</u>			<u>∅</u>	<u>∅</u>	
<u>600-53726-B-1</u>			<u>0.5</u>	<u>78</u>	<u>1950</u>
↓ <u>MB</u>			<u>3.8</u>	<u>64.8</u>	<u>1620</u>
↓ <u>RCS</u>			<u>14.0</u>	<u>34.0</u>	<u>600</u>
<u>600-53675-C-1</u>			<u>3.8</u>	<u>64.8</u>	<u>1620</u>
↓ <u>C/DW</u>			<u>0.6</u>	<u>77.6</u>	<u>1940</u>
↓ <u>C/MS</u>			<u>9.3</u>	<u>42.8</u>	<u>1070</u>
<u>600-53703-A-1</u>			<u>∅</u>	<u>∅</u>	<u>∅</u>

\*For Normality other then indicated [(A\*Iodine N) - (B\*Thiosulfate N))/C]\*16000

Reviewed By: [Signature] Date: [Signature]



## TestAmerica HOUSTON

pH / Corrosivity

EPA 150.1, SW-846 9040B &amp; 9045C, SM 4500-H + B

Date/Time: 4/21/12 1500 Analyst: MB Slope: 97.61 Balance ID: B2Buffer ID: 4.00; 581321 7.00; 697130 10.00; 633478 LCS/ICV/CCVID: 6328131.00; 651512 13.00; 704401 Batch #: 77687

Sample ID	Initial Reading (std. units)	Temp. (°C)	Comments
Calibrate 4.00	4.00	20.5	
Calibrate 7.00	7.00	20.7	
Calibrate 10.00	10.00	20.4	
LCS/ICV	6.99	20.2	TV=7.00 std. units
53808 - B1	7.71	20.1	WATER
Duplicate B1	7.71	20.1	
53522 A1	7.05	20.5	
53690 A1	7.65	20.2	
53749 A1	7.54	23.0	
53667 E-2	7.81	23.0	
↓ E1	7.80	23.0	
53607 A1	7.54	22.8	
53606 A1	7.39	22.9	
53604 A1	7.50	22.9	
53512 A2	9.10	23.0	
CCV	7.02	20.8	TV=7.00 std. units
53638 C1	8.32	22.7	WATER
Duplicate ↓ C1	8.32	22.7	
53713 C1	8.29	23.1	
53512 A1	7.27	22.7	
53667 C3	7.93	22.8	
↓ E4	7.56	22.8	
53589 A1	8.49	22.6	
53675- D1	10.33	22.3	
53717 B1	8.32	22.2	
53637 D1	8.10	22.4	
CCV	7.00	21.2	TV=7.00 std. Units

NOTE: For meter calibration, buffer readings should be within 0.05 pH units of the buffer solution value. For analysis, initial and duplicate sample readings should be within 0.1 pH units.

Reviewed By: [Signature] Date: 4/23/12

**TestAmerica HOUSTON**  
**pH / Corrosivity**  
**EPA 150.1, SW-846 9040B & 9045C, SM 4500-H + B**

Date/Time: \_\_\_\_\_ Analyst: MB Slope: 97.61 Balance ID: B2  
 Buffer ID: 4.00; 7.00; 10.00; LCS/ICV/CCV ID: 632813  
 1.00; \_\_\_\_\_, 13.00; \_\_\_\_\_ Batch #: 77687

CONT'D

Sample ID	Initial Reading (std. units)	Temp. (°C)	Comments
Calibrate 4.00			
Calibrate 7.00			
Calibrate 10.00			
LCS/ICV	7.01	21.2	TV= <u>7.00</u> std. units
53841 A1	7.76	21.6	SOL
Duplicate			
A1	7.76	21.6	
A2	8.04	21.6	
A3	7.86	21.7	
A4	7.88	21.6	
A5	8.07	21.8	
A6	8.16	21.6	
53431 D1	7.81	21.6	
D2	7.37	21.3	
C3	7.18	21.5	
D4	7.90	21.5	
CCV	7.01	21.2	TV= <u>7.00</u> std. units
53431 C5	7.93	21.5	
Duplicate			
C5	7.93	21.5	
53680 A1	7.73	21.7	
A2	7.61	21.5	
53703 A1	6.02	21.6	
53710 A1	8.22	21.5	
53726 A1	7.46	21.5	
53861 A1	7.49	21.6	
<u>4/21/12 MB</u>			
CCV	7.01	21.2	TV= <u>7.00</u> std. Units

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NOTE: For meter calibration, buffer readings should be within 0.05 pH units of the buffer solution value. For analysis, initial and duplicate sample readings should be within 0.1 pH units.

Reviewed By: MB Date: 4/23/12

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**TESTAMERICA HOUSTON**  
Flashpoint / Ignitability by Closed or Open Cup

Date/Time: 4/23/12 0915  
Thermometer ID: 540

Analyst: MB

Barometric Reading (mm Hg): 763  
Batch #: 77742

LCS True Value: 81

LCS ID: 570 597

(closed cup)

(open cup)

Bottle ID	Sample ID	Thermometer Temp. (°F)	Corrected Temp. (°F)	Comment (Note Procedure Used)
	MB	7186		
	LCS	82.0	81.82	
850184	600-53726-A1	210	209.82	D92
849527	600-53685 A1	7212		↓
846133	600-53503 A1	7186		1010
849527	600-53685 A1 DUP	7212		D92
851804	600-53834 A1	7186		1010
	↓ DUP	7186		↓
849932	600-53710 B1	7212		D92
	CCV	82.0	81.82	
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>4/23/12 MB</p> </div>				

**Flashpoint Barometric Pressure Correction Formula:**

Corrected Flashpoint = F + 0.06 (760-P)

Where: F = Observed Flashpoint Temperature (°F)  
P = Ambient Barometric Pressure (mm Hg)

Reviewed By: MB Date: 4/23/12  
Page 4 of 101

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 10
- 11
- 12
- 13
- 14
- 15
- 16
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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-53710-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 77652 Batch Start Date: 04/20/12 13:58 Batch Analyst: Tews, Nathan  
 Batch Method: 7.3.4 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	SULFTSLCS 00507	WETRCYANID 00016
MB 600-77652/1		7.3.4, 9012		10 mL	250 mL		
LCS 600-77652/2		7.3.4, 9012		10 mL	250 mL	10 mL	10 mL
600-53710-A-1	IDW-4	7.3.4, 9012	T	10 g	250 mL		

Batch Notes	

Basis	Basis Description
T	Total/NA

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-53710-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 77795 Batch Start Date: 04/20/12 14:57 Batch Analyst: Grimm, Brandon D  
 Batch Method: 9012 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount
MB 600-77652/1-A		9012		5 mL	5 mL
LCS 600-77652/2-A		9012		5 mL	5 mL
600-53710-A-1-F	IDW-4	9012	T	5 mL	5 mL

Batch Notes

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Basis	Basis Description
T	Total/NA

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-53710-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 77652 Batch Start Date: 04/20/12 13:58 Batch Analyst: Tews, Nathan  
 Batch Method: 7.3.4 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	SULFTSLCS 00507	WETRCYANID 00016
MB 600-77652/1		7.3.4, 7.4.4		10 mL	250 mL		
LCS 600-77652/2		7.3.4, 7.4.4		10 mL	250 mL	10 mL	10 mL
600-53710-A-1	IDW-4	7.3.4, 7.4.4	T	10 g	250 mL		

Batch Notes	

Basis	Basis Description
T	Total/NA

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-53710-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 77665 Batch Start Date: 04/20/12 14:15 Batch Analyst: Walker, Gerald (Gerry) C  
 Batch Method: 7.4.4 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount
MB 600-77652/1-A		7.4.4		100 mL	100 mL
LCS 600-77652/2-A		7.4.4		100 mL	100 mL
600-53710-A-1-F	IDW-4	7.4.4	T	100 mL	100 mL

Batch Notes

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Basis	Basis Description
T	Total/NA



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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-53710-1 Batch Start Date: 04/21/12 15:00 Batch Analyst: Boza, Michael

SDG No.: \_\_\_\_\_ Batch Number: 77687 Batch End Date: \_\_\_\_\_

Batch Method: 9045C

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SampleTemp	pHread1	CalcMsg	WETRP7BUF 00015
CCV 600-77687/24		9045C		50 mL	21.2 Celsius	7.00 SU	pH = Read 1	50 mL
LCS 600-77687/25		9045C		50 mL	21.2 Celsius	7.01 SU	pH = Read 1	50 mL
CCV 600-77687/37		9045C		50 mL	21.2 Celsius	7.01 SU	pH = Read 1	50 mL
600-53710-A-1	IDW-4	9045C	T	20 mL	21.5 Celsius	8.22 SU	pH = Read 1	
CCV 600-77687/46		9045C		50 mL	21.2 Celsius	7.01 SU	pH = Read 1	50 mL

Batch Notes	

Basis	Basis Description
T	Total/NA

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-53710-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 77742 Batch Start Date: 04/23/12 09:15 Batch Analyst: Boza, Michael  
 Batch Method: D92 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	WETRPXYIEN 00005		
Ics 600-77742/2		D92		60 mL		
CCV 600-77742/10		D92		60 mL		

Batch Notes	
Barometric Pressure at Time of Analysis	763
ID number of the thermometer	540

Basis	Basis Description

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- 17

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-53710-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 77568 Batch Start Date: 04/19/12 15:30 Batch Analyst: Daniel, Kevin R  
 Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry
600-53710-D-1	IDW-4	Moisture	T	3	1.14 g	20.13 g	16.52 g

Batch Notes	

Basis	Basis Description
T	Total/NA

# Chain of Custody Record

**TestAmerica Houston**  
 13710 Railway Street  
 Houston, TX 77040  
 Phone: (713) 940-4444 Fax: (713) 940-5045

<b>Client Information</b>	Sample #: Chris Moore Phone: (512) 671-3434 E-Mail: chris.moore@pbwille.com	Lab. P#: _____ (Customer Tracking Note)	COC No: _____ Page: Page 1 of 1 Job #: 1732
Company: Pastor, Behling and Wheeler Address: 2201 Double Creek Drive, Suite 4004 City: Round Rock State, Zip: TX, 78664 Phone: (512) 671-3434 Email: chris.moore@pbwille.com Project Name: Exide Frisco Recycling Center Work Plan Implementation Site: Exide Frisco Recycling Center	Due Date Requested: _____ PO #: _____ WO #: _____ Project #: 1732 SOW#: _____	<b>Analysis Requested</b> Total organic carbon (EPA 415.1/9060A) _____ Sulfate (EPA 9056) _____ Total Petroleum Hydrocarbons (TX1005) _____ Total Petroleum Hydrocarbons (TX1006) _____ Total Dissolved Solids (SM 2540C) _____ Grain Size (ASTM D422-63) _____ Metals: Dissolved Cd, Dissolved Pb _____ Metals: Cd, Pb _____ RCRA Metals: Sb, As, Ba, Ba, Cd, Cr, Pb, Ni, Se, Ag, Zn _____ Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Sample Identification</b> IDW-4 Sample Date: 4/17/12 Sample Time: 1300 Sample Type (C=Comp, G=grab): C Matrix (W=Water, S=solid, O=soil, BT=Trace, AA=Air): S Preservation Code: S	Total Number of containers: _____ Special Instructions/Note: _____ Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____ M - Hexanz N - None O - AsNaO2 P - Na2O4S R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - HClAA W - ph 4-5 Z - other (specify)		
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify) <b>IV</b>			
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Relinquished by: <i>[Signature]</i> Date/Time: 4/17/12 1530 Company: PBW Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____			
Special Instructions/OC Requirements: _____ Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive For <b>∞</b> Months Method of Shipment: <b>Fed Ex</b>			
Cooler Temperatures (°C and Other Remarks): _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____			



## Login Sample Receipt Checklist

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-53710-1

Login Number: 53710

List Number: 1

Creator: Meeler, Brandi M

List Source: TestAmerica Houston

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Houston  
6310 Rothway Street  
Houston, TX 77040  
Tel: (713)690-4444

TestAmerica Job ID: 600-52117-1  
Client Project/Site: Exide Recycling Center, Frisco TX Projec

For:  
Pastor, Behling & Wheeler LLC  
2201 Double Creek Dr  
Suite 4004  
Round Rock, Texas 78664

Attn: Mr. Chris Moore



Authorized for release by:  
4/18/2012 5:32:19 PM  
Cathy Upton  
LAN Analyst  
[cathy.upton@testamericainc.com](mailto:cathy.upton@testamericainc.com)

Designee for  
Sachin Kudchadkar  
Project Manager II  
[sachin.kudchadkar@testamericainc.com](mailto:sachin.kudchadkar@testamericainc.com)

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- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16



### LINKS

Review your project results through  
**TotalAccess**

Have a Question?  
**Ask The Expert**

Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
TRRP Cover Page . . . . .	3
TRRP Checklists & DCSs . . . . .	4
Method Summary . . . . .	24
Sample Summary . . . . .	25
Client Sample Results . . . . .	26
Definitions/Glossary . . . . .	27
QC Sample Results . . . . .	28
Default Detection Limits . . . . .	32
QC Association Summary . . . . .	33
Lab Chronicle . . . . .	35
Certification Summary . . . . .	36
Raw Data . . . . .	37
Chain of Custody . . . . .	282
Receipt Checklists . . . . .	283





## TestAmerica Houston TRRP Data Package Cover Page

Job Number: 600-52117-1  
Project Name/Number: Exide Recycling Center, Frisco TX

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- R1 Field Chain-of-Custody Form
  - R2 Sample Identification Cross-reference;
  - R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
    - a) Items consistent with NELAC Chapter 5
    - b) dilution factors,
    - c) preparation methods,
    - d) cleanup methods, and
    - e) if required for the project, tentatively identified compounds (TICs).
  - R4 Surrogate Recovery Data including:
    - a) Calculated recovery (%R), and
    - b) The laboratory's surrogate QC limits.
  - R5 Test Reports/Summary Forms for Blank Samples;
  - R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
    - a) LCS spiking amounts,
    - b) Calculated %R for each analyte, and
    - d) The laboratory's LCS QC limits
  - R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
    - a) Samples associated with the MS/MSD clearly identified,
    - b) MS/MSD spiking amounts,
    - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
    - d) Calculated %Rs and relative percent differences (RPDs), and
    - e) The laboratory's MS/MSD QC limits
  - R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
    - a) the amount of analyte measured in the duplicate,
    - b) the calculated RPD, and
    - c) the laboratory's QC limits for analytical duplicates.
  - R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
  - R10 Other problems or anomalies
- The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton

Name (printed)

Data Delivery Analyst

Official Title (printed)

Signature

04/18/2012

Date





<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston			LRC Date: 04/12/12				
Project Name: Exide Recycling Center, Frisco TX			Laboratory Job Number: 600-52117				
Reviewer Name: BDG			Prep Batch Number(s): 75619 - pH				
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
		<b>Chain-of-custody (C-O-C)</b>					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	<b>Sample and quality control (QC) identification</b>					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	<b>Test reports</b>					
		Were all samples prepared and analyzed within holding times?		X			1
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	<b>Surrogate recovery data</b>					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	<b>Test reports/summary forms for blank samples</b>					
		Were appropriate type(s) of blanks analyzed?			X		
		Were blanks analyzed at the appropriate frequency?			X		
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?			X		
		Were blank concentrations < MQL?			X		
R6	OI	<b>Laboratory control samples (LCS):</b>					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?			X		
		Was the LCSD RPD within QC limits?			X		
R7	OI	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	<b>Analytical duplicate data</b>					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	<b>Method quantitation limits (MQLs):</b>					
		Are the MQLs for each method analyte included in the laboratory data package?			X		
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?			X		
		Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	<b>Other problems/anomalies</b>					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

- Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
- NA = Not applicable;
- NR = Not reviewed;
- ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

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<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston				LRC Date: 04/12/12			
Project Name: Exide Recycling Center, Frisco TX				Laboratory Job Number: 600-52117			
Reviewer Name: BDG				Prep Batch Number(s): 75619 - pH			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>S1</b>	<b>OI</b>	<b>Initial calibration (ICAL)</b>					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
<b>S2</b>	<b>OI</b>	<b>Initial and continuing calibration verification (ICCV and CCV) and continuing calibration</b>					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
<b>S3</b>	<b>O</b>	<b>Mass spectral tuning:</b>					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
<b>S4</b>	<b>O</b>	<b>Internal standards (IS):</b>					
		Were IS area counts and retention times within the method-required QC limits?			X		
<b>S5</b>	<b>OI</b>	<b>Raw data (NELAC section 5.5.10)</b>					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
<b>S6</b>	<b>O</b>	<b>Dual column confirmation</b>					
		Did dual column confirmation results meet the method-required QC?			X		
<b>S7</b>	<b>O</b>	<b>Tentatively identified compounds (TICs):</b>					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
<b>S8</b>	<b>I</b>	<b>Interference Check Sample (ICS) results:</b>					
		Were percent recoveries within method QC limits?			X		
<b>S9</b>	<b>I</b>	<b>Serial dilutions, post digestion spikes, and method of standard additions</b>					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
<b>S10</b>	<b>OI</b>	<b>Method detection limit (MDL) studies</b>					
		Was a MDL study performed for each reported analyte?			X		
		Is the MDL either adjusted or supported by the analysis of DCSSs?			X		
<b>S11</b>	<b>OI</b>	<b>Proficiency test reports:</b>					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
<b>S12</b>	<b>OI</b>	<b>Standards documentation</b>					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
<b>S13</b>	<b>OI</b>	<b>Compound/analyte identification procedures</b>					
		Are the procedures for compound/analyte identification documented?	X				
<b>S14</b>	<b>OI</b>	<b>Demonstration of analyst competency (DOC)</b>					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
<b>S15</b>	<b>OI</b>	<b>Verification/validation documentation for methods (NELAC Chapter 5)</b>					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
<b>S16</b>	<b>OI</b>	<b>Laboratory standard operating procedures (SOPs):</b>					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s).

Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

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<b>Appendix A (cont'd): Laboratory Review Checklist: Exception Reports</b>	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/12/12
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-52117
Reviewer Name: BDG	Prep Batch Number(s): 75619 - pH
<b>ER #<sup>1</sup></b>	<b>DESCRIPTION</b>
1	The EPA has clarified that the Analyzed Immediately holding time is fifteen minutes from sample collection time. As a result, the holding times for pH had already expired by the time the samples arrived at our laboratory.
2	The laboratory selected another client's sample to perform as the DUP.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston			LRC Date: 04/12/12				
Project Name: Exide Recycling Center, Frisco TX			Laboratory Job Number: 600-52117				
Reviewer Name: BDG			Prep Batch Number(s): 600-75477- Ignitability (Flashpoint)				
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
		<b>Chain-of-custody (C-O-C)</b>					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	<b>Sample and quality control (QC) identification</b>					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	<b>Test reports</b>					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?			X		
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?			X		
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	<b>Surrogate recovery data</b>					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	<b>Test reports/summary forms for blank samples</b>					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?			X		
R6	OI	<b>Laboratory control samples (LCS):</b>					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?			X		
		Was the LCSD RPD within QC limits?			X		
R7	OI	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	<b>Analytical duplicate data</b>					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	<b>Method quantitation limits (MQLs):</b>					
		Are the MQLs for each method analyte included in the laboratory data package?			X		
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?			X		
		Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	<b>Other problems/anomalies</b>					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

- Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
- NA = Not applicable;
- NR = Not reviewed;
- ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).



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<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston				LRC Date: 04/12/12			
Project Name: Exide Recycling Center, Frisco TX				Laboratory Job Number: 600-52117			
Reviewer Name: BDG				Prep Batch Number(s): 600-75477- Ignitability (Flashpoint)			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>S1</b>	<b>OI</b>	<b>Initial calibration (ICAL)</b>					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?			X		
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?			X		
		Has the initial calibration curve been verified using an appropriate second source standard?			X		
<b>S2</b>	<b>OI</b>	<b>Initial and continuing calibration verification (ICCV and CCV) and continuing calibration</b>					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?			X		
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
<b>S3</b>	<b>O</b>	<b>Mass spectral tuning:</b>					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
<b>S4</b>	<b>O</b>	<b>Internal standards (IS):</b>					
		Were IS area counts and retention times within the method-required QC limits?			X		
<b>S5</b>	<b>OI</b>	<b>Raw data (NELAC section 5.5.10)</b>					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
<b>S6</b>	<b>O</b>	<b>Dual column confirmation</b>					
		Did dual column confirmation results meet the method-required QC?			X		
<b>S7</b>	<b>O</b>	<b>Tentatively identified compounds (TICs):</b>					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
<b>S8</b>	<b>I</b>	<b>Interference Check Sample (ICS) results:</b>					
		Were percent recoveries within method QC limits?			X		
<b>S9</b>	<b>I</b>	<b>Serial dilutions, post digestion spikes, and method of standard additions</b>					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
<b>S10</b>	<b>OI</b>	<b>Method detection limit (MDL) studies</b>					
		Was a MDL study performed for each reported analyte?			X		
		Is the MDL either adjusted or supported by the analysis of DCSSs?			X		
<b>S11</b>	<b>OI</b>	<b>Proficiency test reports:</b>					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
<b>S12</b>	<b>OI</b>	<b>Standards documentation</b>					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
<b>S13</b>	<b>OI</b>	<b>Compound/analyte identification procedures</b>					
		Are the procedures for compound/analyte identification documented?	X				
<b>S14</b>	<b>OI</b>	<b>Demonstration of analyst competency (DOC)</b>					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
<b>S15</b>	<b>OI</b>	<b>Verification/validation documentation for methods (NELAC Chapter 5)</b>					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
<b>S16</b>	<b>OI</b>	<b>Laboratory standard operating procedures (SOPs):</b>					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s).

Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

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<b>Appendix A (cont'd): Laboratory Review Checklist: Exception Reports</b>	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/12/12
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-52117
Reviewer Name: BDG	Prep Batch Number(s): 600-75477- Ignitability (Flashpoint)
<b>ER #<sup>1</sup></b>	<b>DESCRIPTION</b>

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston			LRC Date: 04/12/2012				
Project Name: Exide Recycling Center, Frisco TX			Laboratory Job Number: 600-52117				
Reviewer Name: BDG			Prep Batch Number(s): 600-75826-Reactivity, Cyanide				
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
		<b>Chain-of-custody (C-O-C)</b>					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	<b>Sample and quality control (QC) identification</b>					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	<b>Test reports</b>					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?			X		
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?			X		
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	<b>Surrogate recovery data</b>					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	<b>Test reports/summary forms for blank samples</b>					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?			X		
R6	OI	<b>Laboratory control samples (LCS):</b>					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?			X		
		Was the LCSD RPD within QC limits?			X		
R7	OI	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	<b>Analytical duplicate data</b>					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	<b>Method quantitation limits (MQLs):</b>					
		Are the MQLs for each method analyte included in the laboratory data package?			X		
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?			X		
		Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	<b>Other problems/anomalies</b>					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

- Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
- NA = Not applicable;
- NR = Not reviewed;
- ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).





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<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston				LRC Date: 04/12/2012			
Project Name: Exide Recycling Center, Frisco TX				Laboratory Job Number: 600-52117			
Reviewer Name: BDG				Prep Batch Number(s): 600-75826-Reactivity, Cyanide			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>S1</b>	<b>OI</b>	<b>Initial calibration (ICAL)</b>					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?			X		
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?			X		
		Has the initial calibration curve been verified using an appropriate second source standard?			X		
<b>S2</b>	<b>OI</b>	<b>Initial and continuing calibration verification (ICCV and CCV) and continuing calibration</b>					
		Was the CCV analyzed at the method-required frequency?			X		
		Were percent differences for each analyte within the method-required QC limits?			X		
		Was the ICAL curve verified for each analyte?			X		
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
<b>S3</b>	<b>O</b>	<b>Mass spectral tuning:</b>					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
<b>S4</b>	<b>O</b>	<b>Internal standards (IS):</b>					
		Were IS area counts and retention times within the method-required QC limits?			X		
<b>S5</b>	<b>OI</b>	<b>Raw data (NELAC section 5.5.10)</b>					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
<b>S6</b>	<b>O</b>	<b>Dual column confirmation</b>					
		Did dual column confirmation results meet the method-required QC?			X		
<b>S7</b>	<b>O</b>	<b>Tentatively identified compounds (TICs):</b>					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
<b>S8</b>	<b>I</b>	<b>Interference Check Sample (ICS) results:</b>					
		Were percent recoveries within method QC limits?			X		
<b>S9</b>	<b>I</b>	<b>Serial dilutions, post digestion spikes, and method of standard additions</b>					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
<b>S10</b>	<b>OI</b>	<b>Method detection limit (MDL) studies</b>					
		Was a MDL study performed for each reported analyte?			X		
		Is the MDL either adjusted or supported by the analysis of DCSSs?			X		
<b>S11</b>	<b>OI</b>	<b>Proficiency test reports:</b>					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
<b>S12</b>	<b>OI</b>	<b>Standards documentation</b>					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
<b>S13</b>	<b>OI</b>	<b>Compound/analyte identification procedures</b>					
		Are the procedures for compound/analyte identification documented?	X				
<b>S14</b>	<b>OI</b>	<b>Demonstration of analyst competency (DOC)</b>					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
<b>S15</b>	<b>OI</b>	<b>Verification/validation documentation for methods (NELAC Chapter 5)</b>					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
<b>S16</b>	<b>OI</b>	<b>Laboratory standard operating procedures (SOPs):</b>					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s).

Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).



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<b>Appendix A (cont'd): Laboratory Review Checklist: Exception Reports</b>	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/12/2012
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-52117
Reviewer Name: BDG	Prep Batch Number(s): 600-75826-Reactivity, Cyanide
<b>ER #<sup>1</sup></b>	<b>DESCRIPTION</b>

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

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<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston			LRC Date: 04/18/2012				
Project Name: Exide Recycling Center, Frisco TX			Laboratory Job Number: 600-52117				
Reviewer Name: BDG			Prep Batch Number(s): 600-77259-Reactivity, Sulfide				
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
R1	OI	<b>Chain-of-custody (C-O-C)</b>					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	<b>Sample and quality control (QC) identification</b>					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	<b>Test reports</b>					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?			X		
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?			X		
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	<b>Surrogate recovery data</b>					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	<b>Test reports/summary forms for blank samples</b>					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?			X		
R6	OI	<b>Laboratory control samples (LCS):</b>					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?			X		
		Was the LCSD RPD within QC limits?			X		
R7	OI	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	<b>Analytical duplicate data</b>					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	1
R9	OI	<b>Method quantitation limits (MQLs):</b>					
		Are the MQLs for each method analyte included in the laboratory data package?			X		
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?			X		
		Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	<b>Other problems/anomalies</b>					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

- Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
- NA = Not applicable;
- NR = Not reviewed;
- ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

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<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston				LRC Date: 04/18/2012			
Project Name: Exide Recycling Center, Frisco TX				Laboratory Job Number: 600-52117			
Reviewer Name: BDG				Prep Batch Number(s): 600-77259-Reactivity, Sulfide			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>S1</b>	<b>OI</b>	<b>Initial calibration (ICAL)</b>					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?			X		
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?			X		
		Has the initial calibration curve been verified using an appropriate second source standard?			X		
<b>S2</b>	<b>OI</b>	<b>Initial and continuing calibration verification (ICCV and CCV) and continuing calibration</b>					
		Was the CCV analyzed at the method-required frequency?			X		
		Were percent differences for each analyte within the method-required QC limits?			X		
		Was the ICAL curve verified for each analyte?			X		
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
<b>S3</b>	<b>O</b>	<b>Mass spectral tuning:</b>					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
<b>S4</b>	<b>O</b>	<b>Internal standards (IS):</b>					
		Were IS area counts and retention times within the method-required QC limits?			X		
<b>S5</b>	<b>OI</b>	<b>Raw data (NELAC section 5.5.10)</b>					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
<b>S6</b>	<b>O</b>	<b>Dual column confirmation</b>					
		Did dual column confirmation results meet the method-required QC?			X		
<b>S7</b>	<b>O</b>	<b>Tentatively identified compounds (TICs):</b>					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
<b>S8</b>	<b>I</b>	<b>Interference Check Sample (ICS) results:</b>					
		Were percent recoveries within method QC limits?			X		
<b>S9</b>	<b>I</b>	<b>Serial dilutions, post digestion spikes, and method of standard additions</b>					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
<b>S10</b>	<b>OI</b>	<b>Method detection limit (MDL) studies</b>					
		Was a MDL study performed for each reported analyte?			X		
		Is the MDL either adjusted or supported by the analysis of DCSSs?			X		
<b>S11</b>	<b>OI</b>	<b>Proficiency test reports:</b>					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
<b>S12</b>	<b>OI</b>	<b>Standards documentation</b>					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
<b>S13</b>	<b>OI</b>	<b>Compound/analyte identification procedures</b>					
		Are the procedures for compound/analyte identification documented?	X				
<b>S14</b>	<b>OI</b>	<b>Demonstration of analyst competency (DOC)</b>					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
<b>S15</b>	<b>OI</b>	<b>Verification/validation documentation for methods (NELAC Chapter 5)</b>					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
<b>S16</b>	<b>OI</b>	<b>Laboratory standard operating procedures (SOPs):</b>					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s).

Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

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<b>Appendix A (cont'd): Laboratory Review Checklist: Exception Reports</b>	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/18/2012
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-52117
Reviewer Name: BDG	Prep Batch Number(s): 600-77259-Reactivity, Sulfide
<b>ER #<sup>1</sup></b>	<b>DESCRIPTION</b>
1	The laboratory selected a sample from another group to perform as the DUP.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

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<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston			LRC Date: 04/12/12				
Project Name: Exide Recycling Center, Frisco TX			Laboratory Job Number: 600-52117				
Reviewer Name: TWR			Prep Batch Number(s): 600-75754(SPLP), 75042(water)- ICP				
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
		<b>Chain-of-custody (C-O-C)</b>					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	<b>Sample and quality control (QC) identification</b>					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	<b>Test reports</b>					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	<b>Surrogate recovery data</b>					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	<b>Test reports/summary forms for blank samples</b>					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				1
R6	OI	<b>Laboratory control samples (LCS):</b>					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	<b>Analytical duplicate data</b>					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	<b>Method quantitation limits (MQLs):</b>					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	<b>Other problems/anomalies</b>					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

- Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
- NA = Not applicable;
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- ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

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<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston			LRC Date: 04/12/12				
Project Name: Exide Recycling Center, Frisco TX			Laboratory Job Number: 600-52117				
Reviewer Name: TWR			Prep Batch Number(s): 600-75754(SPLP), 75042(water)- ICP				
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
S1	OI	<b>Initial calibration (ICAL)</b>					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	<b>Initial and continuing calibration verification (ICCV and CCV) and continuing calibration</b>					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	<b>Mass spectral tuning:</b>					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	<b>Internal standards (IS):</b>					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	<b>Raw data (NELAC section 5.5.10)</b>					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	<b>Dual column confirmation</b>					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	<b>Tentatively identified compounds (TICs):</b>					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	<b>Interference Check Sample (ICS) results:</b>					
		Were percent recoveries within method QC limits?	X				
S9	I	<b>Serial dilutions, post digestion spikes, and method of standard additions</b>					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	3
S10	OI	<b>Method detection limit (MDL) studies</b>					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSSs?	X				
S11	OI	<b>Proficiency test reports:</b>					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	<b>Standards documentation</b>					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	<b>Compound/analyte identification procedures</b>					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	<b>Demonstration of analyst competency (DOC)</b>					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	<b>Verification/validation documentation for methods (NELAC Chapter 5)</b>					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	<b>Laboratory standard operating procedures (SOPs):</b>					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s).

Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

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<b>Appendix A (cont'd): Laboratory Review Checklist: Exception Reports</b>	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/12/12
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-52117
Reviewer Name: TWR	Prep Batch Number(s): 600-75754(SPLP), 75042(water)- ICP
<b>ER #<sup>1</sup></b>	<b>DESCRIPTION</b>
1	Arsenic and barium were detected above the MDL, but below the MQL in the leachate blank. The levels of detection are below the recommended reporting limits and the appropriate flags have been applied.
2	The laboratory selected another client's sample to perform as the DUP.
3	Arsenic was detected above the MDL in the CCB's analyzed on 03/28/12 at 11:13 and 11:59. Since the concentrations were below the MQL, no corrective action was required.
4	The laboratory selected another client's sample to perform as the PDS/SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston			LRC Date: 04/13/12				
Project Name: Exide Recycling Center, Frisco TX			Laboratory Job Number: 600-52117				
Reviewer Name: TWR			Prep Batch Number(s): 600-75815- Mercury				
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
		<b>Chain-of-custody (C-O-C)</b>					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	<b>Sample and quality control (QC) identification</b>					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	<b>Test reports</b>					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	<b>Surrogate recovery data</b>					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	<b>Test reports/summary forms for blank samples</b>					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				1
R6	OI	<b>Laboratory control samples (LCS):</b>					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	2
		Were MS/MSD RPDs within laboratory QC limits?				X	2
R8	OI	<b>Analytical duplicate data</b>					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	3
R9	OI	<b>Method quantitation limits (MQLs):</b>					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	<b>Other problems/anomalies</b>					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

- Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
- NA = Not applicable;
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<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston				LRC Date: 04/13/12			
Project Name: Exide Recycling Center, Frisco TX				Laboratory Job Number: 600-52117			
Reviewer Name: TWR				Prep Batch Number(s): 600-75815- Mercury			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>S1</b>	<b>OI</b>	<b>Initial calibration (ICAL)</b>					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
<b>S2</b>	<b>OI</b>	<b>Initial and continuing calibration verification (ICCV and CCV) and continuing calibration</b>					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
<b>S3</b>	<b>O</b>	<b>Mass spectral tuning:</b>					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
<b>S4</b>	<b>O</b>	<b>Internal standards (IS):</b>					
		Were IS area counts and retention times within the method-required QC limits?			X		
<b>S5</b>	<b>OI</b>	<b>Raw data (NELAC section 5.5.10)</b>					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
<b>S6</b>	<b>O</b>	<b>Dual column confirmation</b>					
		Did dual column confirmation results meet the method-required QC?			X		
<b>S7</b>	<b>O</b>	<b>Tentatively identified compounds (TICs):</b>					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
<b>S8</b>	<b>I</b>	<b>Interference Check Sample (ICS) results:</b>					
		Were percent recoveries within method QC limits?			X		
<b>S9</b>	<b>I</b>	<b>Serial dilutions, post digestion spikes, and method of standard additions</b>					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	4
<b>S10</b>	<b>OI</b>	<b>Method detection limit (MDL) studies</b>					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSSs?	X				
<b>S11</b>	<b>OI</b>	<b>Proficiency test reports:</b>					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
<b>S12</b>	<b>OI</b>	<b>Standards documentation</b>					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
<b>S13</b>	<b>OI</b>	<b>Compound/analyte identification procedures</b>					
		Are the procedures for compound/analyte identification documented?	X				
<b>S14</b>	<b>OI</b>	<b>Demonstration of analyst competency (DOC)</b>					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
<b>S15</b>	<b>OI</b>	<b>Verification/validation documentation for methods (NELAC Chapter 5)</b>					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
<b>S16</b>	<b>OI</b>	<b>Laboratory standard operating procedures (SOPs):</b>					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s).

Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

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<b>Appendix A (cont'd): Laboratory Review Checklist: Exception Reports</b>	
Laboratory Name: TestAmerica-Houston	LRC Date: 04/13/12
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-52117
Reviewer Name: TWR	Prep Batch Number(s): 600-75815- Mercury
<b>ER #<sup>1</sup></b>	<b>DESCRIPTION</b>
1	Mercury was detected above the MDL, but below the MQL in the prep blank and the leachate blank. The levels of detection are below the recommended reporting limit and the appropriate flags have been applied.
2	The laboratory selected another client's sample to perform as the MS/MSD.
3	The laboratory selected another client's sample to perform as the DUP.
4	The laboratory selected another client's sample to perform as the PDS/SD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

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**Detection Check Standard**

Matrix: Water  
 Method: 200.7/6010  
 Preparation: 200.7P/3010  
 Date Analyzed: 3/28/2012  
 Date Prepared: 3/27/2012  
 Instrument: Thermo 6500  
 TALs Batches: 75833  
 Units: mg/L

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Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.006	0.02	0.008	0.5
Antimony	0.0063	0.01	0.0095	0.05
Arsenic	0.0033	0.01	0.0079	0.01
Barium	0.0022	0.005	0.0049	0.02
Beryllium	0.00134	0.002	0.0042	0.005
Boron	0.0077	0.02	0.0204	0.2
Cadmium	0.00073	0.001	0.001	0.005
Calcium	0.022	0.05	0.0589	1
Chromium	0.0016	0.002	0.0043	0.01
Cobalt	0.00063	0.001	0.0011	0.01
Copper	0.0014	0.002	0.0014	0.01
Iron	0.087	0.1	0.1005	0.4
Lithium	0.0024	0.005	0.0054	0.2
Lead	0.0029	0.005	0.0054	0.01
Selenium	0.0042	0.01	0.0084	0.04
Manganese	0.00084	0.002	0.002	0.01
Molybdenum	0.0027	0.005	0.005	0.01
Nickel	0.00179	0.005	0.0049	0.01
Silver	0.0012	0.0025	0.0025	0.01
Sodium	0.02	0.05	0.0559	1
Strontium	0.0005	0.001	0.0011	0.005
Thallium	0.0078	0.02	0.0195	0.03
Tin	0.0028	0.005	0.0048	0.01
Titanium	0.0011	0.002	0.0018	0.01
Vanadium	0.0017	0.002	0.0048	0.01
Zinc	0.0022	0.005	0.0064	0.01

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**Detection Check Standard**

Matrix: Water  
Method: 7470, 245.1  
Preparation: 7470p, 245.1p  
Date Analyzed: 2/28/2012  
Date Prepared: 2/28/2012  
Instrument: FIMS100  
TALs Batches: 73427  
Units: ug/L

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Analyte	MDL	DCS Spike	Measured Result	MLQ
Mercury	0.026	0.0625	0.0296	0.2

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## Method Summary

Client: Pastor, Behling & Wheeler LLC  
 Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-52117-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL HOU
7470A	Mercury (CVAA)	SW846	TAL HOU
7.4.4	Reactive Sulfide	EPA	TAL HOU
9012	Cyanide, Reactive	SW846	TAL HOU
9040B	Corrosivity as pH	SW846	TAL HOU
SW846 Ch. 7	Ignitability	SW846	TAL HOU

### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

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## Sample Summary

Client: Pastor, Behling & Wheeler LLC  
Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-52117-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-52117-1	IDW 3	Water	03/15/12 12:10	03/16/12 09:09

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## Client Sample Results

Client: Pastor, Behling & Wheeler LLC  
 Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-52117-1

Client Sample ID: IDW 4

Lab Sample ID: 600-53771-7

Date Collected: 04/75/73 73:70

Matrix: Water

Date Redei2ec: 04/76/73 0P:0P

## Met8oc: 6070. - Metals vC9h

( nalj te	Result	BualiŪer	MBL v( c)h	SDL	z nit	D	9reparec	( nalj Fec	Dil yad
Leac	0Q0P74	A	0.0100	0.00290	mg/L		03/19/12 11:36	03/23/12 12:51	1

## Met8oc: 6070. - Metals vC9h- f CL9

( nalj te	Result	BualiŪer	MBL v( c)h	SDL	z nit	D	9reparec	( nalj Fec	Dil yad
Pb	0.0290	U	0.100	0.0290	mg/L		03/27/12 14:15	03/28/12 11:05	1
Cr	0.0155	U	0.100	0.0155	mg/L		03/27/12 14:15	03/28/12 11:05	1
Cd	0.00350	U	0.0500	0.00350	mg/L		03/27/12 14:15	03/28/12 11:05	1
. a	0Q75	b	0.200	0.0220	mg/L		03/27/12 14:15	03/28/12 11:05	1
As	0.0328	U	0.100	0.0328	mg/L		03/27/12 14:15	03/28/12 11:05	1
Ag	0.0125	U	0.100	0.0125	mg/L		03/27/12 14:15	03/28/12 11:05	1
Se	0.0417	U	0.400	0.0417	mg/L		03/27/12 14:15	03/28/12 11:05	1

## Met8oc: 1T10( - Merdurj vCJ( ( h- f CL9

( nalj te	Result	BualiŪer	MBL v( c)h	SDL	z nit	D	9reparec	( nalj Fec	Dil yad
Merdurj	0Q457	Ab	0.200	0.0260	ug/L		03/28/12 08:49	03/28/12 17:32	1

## Veneral C8emistrj

( nalj te	Result	BualiŪer	MBL v( c)h	SDL	z nit	D	9reparec	( nalj Fec	Dil yad
Sulfide, Reactive	1.40	U	50.0	1.40	mg/L		04/16/12 13:19	04/16/12 16:36	1
Cyanide, Reactive	0.0397	U	0.250	0.0397	mg/L		03/28/12 09:29	03/27/12 17:00	1
pG	1Q1	G	0.0100	0.0100	SU			03/26/12 09:20	1
ylas8point	H7>6		1.00	1.00	Degrees F			03/22/12 16:00	1

## Definitions/Glossary

Client: Pastor, Behling & Wheeler LLC  
 Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-52117-1

### Qualifiers

#### Metals

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
b	The compound was found in the blank and sample

#### General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
U	Analyte was not detected at or above the SDL.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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## QC Sample Results

Client: Pastor, Behling & Wheeler LLC  
 Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-52117-1

## Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-75042/1-A  
 Matrix: Water  
 Analysis Batch: 75482

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 75042

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00290	U	0.0100	0.00290	mg/L		03/19/12 11:36	03/23/12 12:43	1

Lab Sample ID: LCS 600-75042/2-A  
 Matrix: Water  
 Analysis Batch: 75482

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 75042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	0.9845		mg/L		98	80 - 120

Lab Sample ID: MB 600-75754/1-A  
 Matrix: Water  
 Analysis Batch: 75851

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 75754

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr	0.00155	U	0.0100	0.00155	mg/L		03/27/12 14:15	03/28/12 10:31	1
Pb	0.00290	U	0.0100	0.00290	mg/L		03/27/12 14:15	03/28/12 10:31	1
Cd	0.000350	U	0.00500	0.000350	mg/L		03/27/12 14:15	03/28/12 10:31	1
Ba	0.00220	U	0.0200	0.00220	mg/L		03/27/12 14:15	03/28/12 10:31	1
As	0.00328	U	0.0100	0.00328	mg/L		03/27/12 14:15	03/28/12 10:31	1
Ag	0.00125	U	0.0100	0.00125	mg/L		03/27/12 14:15	03/28/12 10:31	1
Se	0.00417	U	0.0400	0.00417	mg/L		03/27/12 14:15	03/28/12 10:31	1

Lab Sample ID: LCS 600-75754/2-A  
 Matrix: Water  
 Analysis Batch: 75851

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 75754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr	1.00	1.030		mg/L		103	80 - 120
Pb	1.00	1.036		mg/L		104	80 - 120
Cd	0.500	0.5266		mg/L		105	80 - 120
Ba	1.00	1.041		mg/L		104	80 - 120
As	1.00	1.039		mg/L		104	80 - 120
Ag	0.500	0.5176		mg/L		104	80 - 120
Se	1.00	1.029		mg/L		103	80 - 120

Lab Sample ID: LB 600-75710/1-B LB  
 Matrix: Water  
 Analysis Batch: 75851

Client Sample ID: Method Blank  
 Prep Type: TCLP  
 Prep Batch: 75754

Analyte	LB Result	LB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr	0.0155	U	0.100	0.0155	mg/L		03/27/12 14:15	03/28/12 10:39	1
Pb	0.0290	U	0.100	0.0290	mg/L		03/27/12 14:15	03/28/12 10:39	1
Cd	0.00350	U	0.0500	0.00350	mg/L		03/27/12 14:15	03/28/12 10:39	1
Ba	0.05370	J	0.200	0.0220	mg/L		03/27/12 14:15	03/28/12 10:39	1
As	0.03750	J	0.100	0.0328	mg/L		03/27/12 14:15	03/28/12 10:39	1
Ag	0.0125	U	0.100	0.0125	mg/L		03/27/12 14:15	03/28/12 10:39	1
Se	0.0417	U	0.400	0.0417	mg/L		03/27/12 14:15	03/28/12 10:39	1

## QC Sample Results

Client: Pastor, Behling & Wheeler LLC  
 Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-52117-1

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-52117-1 MS

Matrix: Water

Analysis Batch: 75851

Client Sample ID: IDW 3

Prep Type: TCLP

Prep Batch: 75754

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Cr	0.0155	U	10.0	10.21		mg/L		102		75 - 125
Pb	0.0290	U	10.0	10.33		mg/L		103		75 - 125
Cd	0.00350	U	5.00	5.289		mg/L		106		75 - 125
Ba	0.415	b	10.0	10.98		mg/L		106		75 - 125
As	0.0328	U	10.0	10.62		mg/L		106		75 - 125
Ag	0.0125	U	5.00	4.830		mg/L		97		75 - 125
Se	0.0417	U	10.0	10.32		mg/L		103		75 - 125

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 600-75815/7-A

Matrix: Water

Analysis Batch: 75902

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75815

Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.04043	J	0.200	0.0260	ug/L		03/28/12 08:49	03/28/12 17:09	1

Lab Sample ID: LCS 600-75815/8-A

Matrix: Water

Analysis Batch: 75902

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75815

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
Mercury	3.00	3.015		ug/L		100		70 - 130

Lab Sample ID: LB 600-75710/1-E LB

Matrix: Water

Analysis Batch: 75902

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 75815

Analyte	LB	LB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.04243	J	0.200	0.0260	ug/L		03/28/12 08:49	03/28/12 17:13	1

## Method: 7.4.4 - Reactive Sulfide

Lab Sample ID: MB 600-77259/1-A

Matrix: Water

Analysis Batch: 77293

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 77259

Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfide, Reactive	1.40	U	50.0	1.40	mg/L		04/16/12 13:19	04/16/12 16:36	1

Lab Sample ID: LCS 600-77259/2-A

Matrix: Water

Analysis Batch: 77293

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 77259

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
Sulfide, Reactive	2260	1.40	U	mg/L		0		0 - 100

## QC Sample Results

Client: Pastor, Behling & Wheeler LLC  
 Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-52117-1

## Method: 7.4.4 - Reactive Sulfide (Continued)

Lab Sample ID: 600-52117-1 MS

Matrix: Water

Analysis Batch: 77293

Client Sample ID: IDW 3

Prep Type: Total/NA

Prep Batch: 77259

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Sulfide, Reactive	1.40	U	2260	1.40	U	mg/L		0		0 - 100

## Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 600-75813/1-A

Matrix: Water

Analysis Batch: 75896

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75813

Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Reactive	0.0397	U	0.250	0.0397	mg/L		03/27/12 17:00	03/27/12 17:00	1

Lab Sample ID: LCS 600-75813/2-A

Matrix: Water

Analysis Batch: 75896

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75813

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
Cyanide, Reactive	1000000	62.65		mg/L		0.006		0 - 100

Lab Sample ID: 600-52117-1 MS

Matrix: Water

Analysis Batch: 75896

Client Sample ID: IDW 3

Prep Type: Total/NA

Prep Batch: 75826

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Cyanide, Reactive	0.0397	U	1000000	91.13		mg/L		0.009		0 - 100

Lab Sample ID: 600-52117-1 DU

Matrix: Water

Analysis Batch: 75896

Client Sample ID: IDW 3

Prep Type: Total/NA

Prep Batch: 75826

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier						
Cyanide, Reactive	0.0397	U	0.0397	U	mg/L		NC	20

## Method: 9040B - Corrosivity as pH

Lab Sample ID: LCS 600-75619/1

Matrix: Water

Analysis Batch: 75619

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
pH	7.00	6.980		SU		100		99 - 101

## Method: SW846 Ch. 7 - Ignitability

Lab Sample ID: MB 600-75477/1

Matrix: Water

Analysis Batch: 75477

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Flashpoint	>186		1.00	1.00	Degrees F			03/22/12 16:00	1

### QC Sample Results

Client: Pastor, Behling & Wheeler LLC  
 Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-52117-1

#### Method: SW846 Ch. 7 - Ignitability (Continued)

Lab Sample ID: LCS 600-75477/2  
 Matrix: Water  
 Analysis Batch: 75477

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Flashpoint	81.0	82.18		Degrees F		101	96.9 - 103. 1 09

Lab Sample ID: 600-52117-1 DU  
 Matrix: Water  
 Analysis Batch: 75477

Client Sample ID: IDW 3  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>186		>186		Degrees F		NC	20

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## Unadjusted Detection Limits

Client: Pastor, Behling & Wheeler LLC  
 Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-52117-1

## Method: 6010B - Metals (ICP)

Analyte	MQL	MDL	Units	Method
Lead	0.0100	0.00290	mg/L	6010B

## Method: 6010B - Metals (ICP) - TCLP

Analyte	MQL	MDL	Units	Method
Ag	0.0100	0.00125	mg/L	6010B
As	0.0100	0.00328	mg/L	6010B
Ba	0.0200	0.00220	mg/L	6010B
Cd	0.00500	0.000350	mg/L	6010B
Cr	0.0100	0.00155	mg/L	6010B
Pb	0.0100	0.00290	mg/L	6010B
Se	0.0400	0.00417	mg/L	6010B

## Method: 7470A - Mercury (CVAA) - TCLP

Analyte	MQL	MDL	Units	Method
Mercury	0.200	0.0260	ug/L	7470A

## General Chemistry

Analyte	MQL	MDL	Units	Method
Sulfide, Reactive	50.0	1.40	mg/L	7.4.4
Cyanide, Reactive	0.250	0.0397	mg/L	9012
pH	0.0100	0.0100	SU	9040B
Flashpoint	1.00	1.00	Degrees F	SW846 Ch. 7

## QC Association Summary

Client: Pastor, Behling & Wheeler LLC  
 Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-53771-7

## Metals

## Prep Batch: 75042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-53771-7	IDW 4	Total/UA	Water	4070A	
LCS 600-150M/3-A	Lab Control Samkle	Total/UA	Water	4070A	
8 B 600-150M/7-A	8 ethod Blan9	Total/UA	Water	4070A	

## Analysis Batch: 75482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-53771-7	IDW 4	Total/UA	Water	6070B	150M8
LCS 600-150M/3-A	Lab Control Samkle	Total/UA	Water	6070B	150M8
8 B 600-150M/7-A	8 ethod Blan9	Total/UA	Water	6070B	150M8

## Leach Batch: 75710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-53771-7	IDW 4	TCLP	Water	7477	
600-53771-7 8 S	IDW 4	TCLP	Water	7477	
LB 600-15170/7-B LB	8 ethod Blan9	TCLP	Water	7477	
LB 600-15170/7-E LB	8 ethod Blan9	TCLP	Water	7477	

## Prep Batch: 75754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-53771-7	IDW 4	TCLP	Water	4070A	15170
600-53771-7 8 S	IDW 4	TCLP	Water	4070A	15170
LB 600-15170/7-B LB	8 ethod Blan9	TCLP	Water	4070A	15170
LCS 600-1515M3-A	Lab Control Samkle	Total/UA	Water	4070A	
8 B 600-1515M7-A	8 ethod Blan9	Total/UA	Water	4070A	

## Prep Batch: 75815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-53771-7	IDW 4	TCLP	Water	1M10A	15170
LB 600-15170/7-E LB	8 ethod Blan9	TCLP	Water	1M10A	15170
LCS 600-15275/2-A	Lab Control Samkle	Total/UA	Water	1M10A	
8 B 600-15275/1-A	8 ethod Blan9	Total/UA	Water	1M10A	

## Analysis Batch: 75851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-53771-7	IDW 4	TCLP	Water	6070B	1515M
600-53771-7 8 S	IDW 4	TCLP	Water	6070B	1515M
LB 600-15170/7-B LB	8 ethod Blan9	TCLP	Water	6070B	1515M
LCS 600-1515M3-A	Lab Control Samkle	Total/UA	Water	6070B	1515M
8 B 600-1515M7-A	8 ethod Blan9	Total/UA	Water	6070B	1515M

## Analysis Batch: 75902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-53771-7	IDW 4	TCLP	Water	1M10A	15275
LB 600-15170/7-E LB	8 ethod Blan9	TCLP	Water	1M10A	15275
LCS 600-15275/2-A	Lab Control Samkle	Total/UA	Water	1M10A	15275
8 B 600-15275/1-A	8 ethod Blan9	Total/UA	Water	1M10A	15275

## General Chemistry

## Analysis Batch: 75477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-53771-7	IDW 4	Total/UA	Water	SW2M6 Chp1	

## QC Association Summary

Client: Pastor, Behling & Wheeler LLC  
 Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-53771-7

## General Chemistry (Continued)

## Analysis Batch: 75477 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-53771-7 Du	IDW 4	Total/UA	Water	SW2M6 Chp1	
LCS 600-15M1/3	Lab Control Samkle	Total/UA	Water	SW2M6 Chp1	
8 B 600-15M1/7	8 ethod Blan9	Total/UA	Water	SW2M6 Chp1	

## Analysis Batch: 75619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-53771-7	IDW 4	Total/UA	Water	.0MDB	
LCS 600-1567. /7	Lab Control Samkle	Total/UA	Water	.0MDB	

## Prep Batch: 75813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-15274/3-A	Lab Control Samkle	Total/UA	Water	1p4p4	
8 B 600-15274/7-A	8 ethod Blan9	Total/UA	Water	1p4p4	

## Prep Batch: 75826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-53771-7	IDW 4	Total/UA	Water	1p4p4	
600-53771-7 Du	IDW 4	Total/UA	Water	1p4p4	
600-53771-7 8 S	IDW 4	Total/UA	Water	1p4p4	

## Analysis Batch: 75896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-53771-7	IDW 4	Total/UA	Water	.073	15236
600-53771-7 Du	IDW 4	Total/UA	Water	.073	15236
600-53771-7 8 S	IDW 4	Total/UA	Water	.073	15236
LCS 600-15274/3-A	Lab Control Samkle	Total/UA	Water	.073	15274
8 B 600-15274/7-A	8 ethod Blan9	Total/UA	Water	.073	15274

## Prep Batch: 77259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-53771-7	IDW 4	Total/UA	Water	1p4pM	
600-53771-7 8 S	IDW 4	Total/UA	Water	1p4pM	
LCS 600-1135. /3-A	Lab Control Samkle	Total/UA	Water	1p4pM	
8 B 600-1135. /7-A	8 ethod Blan9	Total/UA	Water	1p4pM	

## Analysis Batch: 77293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-53771-7	IDW 4	Total/UA	Water	1p4pM	1135.
600-53771-7 8 S	IDW 4	Total/UA	Water	1p4pM	1135.
LCS 600-1135. /3-A	Lab Control Samkle	Total/UA	Water	1p4pM	1135.
8 B 600-1135. /7-A	8 ethod Blan9	Total/UA	Water	1p4pM	1135.

## Lab Chronicle

Client: Pastor, Behling & Wheeler LLC  
 Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-52117-1

**Client Sample ID: IDW 3**

**Lab Sample ID: 600-52117-1**

**Date Collected: 03/15/12 12:10**

**Matrix: Water**

**Date Received: 03/16/12 09:09**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			75042	03/19/12 11:36	NER	TAL HOU
Total/NA	Analysis	6010B		1	75482	03/23/12 12:51	DCL	TAL HOU
TCLP	Leach	1311			75710	03/26/12 17:30	TWR	TAL HOU
TCLP	Prep	3010A			75754	03/27/12 14:15	NER	TAL HOU
TCLP	Analysis	6010B		1	75851	03/28/12 11:05	DCL	TAL HOU
TCLP	Prep	7470A			75815	03/28/12 08:49	SRP	TAL HOU
TCLP	Analysis	7470A		1	75902	03/28/12 17:32	SRP	TAL HOU
Total/NA	Analysis	SW846 Ch. 7		1	75477	03/22/12 16:00	SUP	TAL HOU
Total/NA	Analysis	9040B		1	75619	03/26/12 09:20	MB	TAL HOU
Total/NA	Analysis	9012		1	75896	03/27/12 17:00	GCW	TAL HOU
Total/NA	Prep	7.3.3			75826	03/28/12 09:29	GCW	TAL HOU
Total/NA	Prep	7.3.4			77259	04/16/12 13:19	AS	TAL HOU
Total/NA	Analysis	7.4.4		1	77293	04/16/12 16:36	ES	TAL HOU

**Laboratory References:**

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444



## Certification Summary

Client: Pastor, Behling & Wheeler LLC  
 Project/Site: Exide Recycling Center, Frisco TX Projec

TestAmerica Job ID: 600-53771-7

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Houston	Arkansas DEQ	State Program	6	88-0159
TestAmerica Houston	Louisiana	OELAC	6	406N4
TestAmerica Houston	2 klahoma	State Program	6	9504
TestAmerica Houston	Texas	OELAC	6	T70N10N334-70-6-TX
TestAmerica Houston	USDA	Federal		P440-08-00371
TestAmerica Houston	Utah	OELAC	8	GULF

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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# METALS

COVER PAGE  
METALS

Lab Name: TestAmerica Houston Job Number: 600-52117-1

SDG No.: \_\_\_\_\_

Project: Exide Recycling Center, Frisco TX Projec

Client Sample ID	Lab Sample ID
<u>IDW 3</u>	<u>600-52117-1</u>

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Comments:

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1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - TCLP

Client Sample ID: IDW 3 Lab Sample ID: 600-52117-1  
 Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG ID.: \_\_\_\_\_  
 Matrix: Water Date Sampled: 03/15/2012 12:10  
 Reporting Basis: WET Date Received: 03/16/2012 09:09

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Pb	0.0290	0.100	0.0290	mg/L	U		1	6010B
7440-47-3	Cr	0.0155	0.100	0.0155	mg/L	U		1	6010B
7440-43-9	Cd	0.00350	0.0500	0.00350	mg/L	U		1	6010B
7440-39-3	Ba	0.415	0.200	0.0220	mg/L		b	1	6010B
7440-38-2	As	0.0328	0.100	0.0328	mg/L	U		1	6010B
7440-22-4	Ag	0.0125	0.100	0.0125	mg/L	U		1	6010B
7782-49-2	Se	0.0417	0.400	0.0417	mg/L	U		1	6010B
7439-97-6	Mercury	0.0351	0.200	0.0260	ug/L	J	b	1	7470A

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2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 ICV Source: MET0312CCV\_00005 Concentration Units: mg/L  
 CCV Source: MET0312CCV\_00005

Analyte	ICV 600-75482/4 03/23/2012 07:52				CCV 600-75482/45 03/23/2012 10:48				CCV 600-75482/57 03/23/2012 13:18			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Lead</b>	0.5007		0.500	100	0.4871		0.500	97	0.4680		0.500	94

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.

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2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 ICV Source: MET0312CCV\_00005 Concentration Units: mg/L  
 CCV Source: MET0312CCV\_00005

Analyte	CCV 600-75482/69 03/23/2012 14:04				CCV 600-75482/81 03/23/2012 14:50				CCV 600-75482/84 03/23/2012 15:02			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Lead</b>	0.4672		0.500	93	0.4623		0.500	92	0.4739		0.500	95

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Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 ICV Source: MET0312CCV\_00005 Concentration Units: mg/L  
 CCV Source: MET0312CCV\_00005

Analyte	ICV 600-75851/4 03/28/2012 10:01				CCV 600-75851/9 03/28/2012 10:20				CCV 600-75851/21 03/28/2012 11:09			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Ag</b>	0.2480		0.250	99	0.2491		0.250	100	0.2500		0.250	100
<b>As</b>	0.5029		0.500	101	0.5068		0.500	101	0.5102		0.500	102
<b>Ba</b>	0.4974		0.500	99	0.5043		0.500	101	0.5091		0.500	102
<b>Cd</b>	0.5051		0.500	101	0.5096		0.500	102	0.5236		0.500	105
<b>Cr</b>	0.4997		0.500	100	0.4994		0.500	100	0.4991		0.500	100
<b>Pb</b>	0.5006		0.500	100	0.5022		0.500	100	0.5088		0.500	102
<b>Se</b>	0.5115		0.500	102	0.5068		0.500	101	0.5110		0.500	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.

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2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 ICV Source: MET0312CCV\_00005 Concentration Units: mg/L  
 CCV Source: MET0312CCV\_00005

Analyte	CCV 600-75851/33 03/28/2012 11:56				CCV 600-75851/45 03/28/2012 12:42							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Ag</b>	0.2414		0.250	97	0.2474		0.250	99				
<b>As</b>	0.4984		0.500	100	0.5093		0.500	102				
<b>Ba</b>	0.4982		0.500	100	0.5150		0.500	103				
<b>Cd</b>	0.5115		0.500	102	0.5273		0.500	105				
<b>Cr</b>	0.4791		0.500	96	0.4867		0.500	97				
<b>Pb</b>	0.4939		0.500	99	0.5035		0.500	101				
<b>Se</b>	0.4938		0.500	99	0.4997		0.500	100				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.

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2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 ICV Source: MER0312S2\_00019 Concentration Units: ug/L  
 CCV Source: MER0312S2\_00019

Analyte	ICV 600-75902/8 03/28/2012 16:58				CCV 600-75902/11 03/28/2012 17:04				CCV 600-75902/23 03/28/2012 17:28			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Mercury</b>	3.042		3.00	101	3.006		3.00	100	3.046		3.00	102

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Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.

2A-IN  
 CALIBRATION VERIFICATIONS  
 METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 ICV Source: MER0312S2\_00019 Concentration Units: ug/L  
 CCV Source: MER0312S2\_00019

Analyte	CCV 600-75902/35 03/28/2012 17:50				CCV 600-75902/47 03/28/2012 18:13				CCV 600-75902/57 03/28/2012 18:32			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Mercury</b>	3.110		3.00	104	2.882		3.00	96	2.935		3.00	98

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Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Italicized analytes were not requested for this sequence.

2B-IN  
CRQL CHECK STANDARD  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Method: 6010B Instrument ID: TJA1  
 Lab Sample ID: CRI 600-75482/6 Concentration Units: mg/L  
 CRQL Check Standard Source: MET0212LOW\_00003

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Lead	0.0100	0.01009		101	50-150

Lab Sample ID: CRI 600-75851/6 Concentration Units: mg/L  
 CRQL Check Standard Source: MET0212LOW\_00003

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Cr	0.0100	0.01010		101	50-150
Pb	0.0100	0.009970	J	100	50-150
Cd	0.00500	0.005290		106	50-150
Ba	0.0100	0.009810	J	98	50-150
As	0.0100	0.01254		125	50-150
Ag	0.00500	0.004810	J	96	50-150
Se	0.0100	0.008650	J	87	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN



2B-IN  
 CRQL CHECK STANDARD  
 METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Method: 7470A Instrument ID: FIMS01  
 Lab Sample ID: CRA 600-75902/10 Concentration Units: ug/L  
 CRQL Check Standard Source: MER0312S1\_00022

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.2329		116	50-150



Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1

SDG No.: \_\_\_\_\_

Concentration Units: mg/L

Analyte	RL	ICB 600-75482/5 03/23/2012 07:56		CCB 600-75482/46 03/23/2012 10:51		CCB 600-75482/58 03/23/2012 13:22		CCB 600-75482/70 03/23/2012 14:08	
		Found	C	Found	C	Found	C	Found	C
<b>Lead</b>	0.0100	0.00290	U	0.00290	U	0.00290	U	0.00290	U

*Italicized analytes were not requested for this sequence.*

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3-IN  
INSTRUMENT BLANKS  
METALS

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Lab Name: TestAmerica Houston Job No.: 600-52117-1

SDG No.: \_\_\_\_\_

Concentration Units: mg/L

Analyte	RL	CCB 600-75482/82 03/23/2012 14:54		CCB 600-75482/85 03/23/2012 15:06					
		Found	C	Found	C	Found	C	Found	C
<b>Lead</b>	0.0100	0.00290	U	0.00290	U				

*Italicized analytes were not requested for this sequence.*

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1

SDG No.: \_\_\_\_\_

Concentration Units: mg/L

Analyte	RL	ICB 600-75851/5 03/28/2012 10:05		CCB 600-75851/10 03/28/2012 10:24		CCB 600-75851/22 03/28/2012 11:13		CCB 600-75851/34 03/28/2012 11:59	
		Found	C	Found	C	Found	C	Found	C
<b>Ag</b>	0.0100	0.00125	U	0.00125	U	0.00125	U	0.00125	U
<b>As</b>	0.0100	0.00328	U	0.00328	U	0.004290	J	0.004290	J
<b>Ba</b>	0.0200	0.00220	U	0.00220	U	0.00220	U	0.00220	U
<b>Cd</b>	0.00500	0.000350	U	0.000350	U	0.000350	U	0.000350	U
<b>Cr</b>	0.0100	0.00155	U	0.00155	U	0.00155	U	0.00155	U
<b>Pb</b>	0.0100	0.00290	U	0.00290	U	0.00290	U	0.00290	U
<b>Se</b>	0.0400	0.00417	U	0.00417	U	0.00417	U	0.00417	U

Italicized analytes were not requested for this sequence.

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3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1

SDG No.: \_\_\_\_\_

Concentration Units: mg/L

Analyte	RL	CCB 600-75851/46 03/28/2012 12:46							
		Found	C	Found	C	Found	C	Found	C
<b>Ag</b>	0.0100	0.00125	U						
<b>As</b>	0.0100	0.00328	U						
<b>Ba</b>	0.0200	0.00220	U						
<b>Cd</b>	0.00500	0.000350	U						
<b>Cr</b>	0.0100	0.00155	U						
<b>Pb</b>	0.0100	0.00290	U						
<b>Se</b>	0.0400	0.00417	U						

Italicized analytes were not requested for this sequence.

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3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1

SDG No.: \_\_\_\_\_

Concentration Units: ug/L

Analyte	RL	ICB 600-75902/9 03/28/2012 17:00		CCB 600-75902/12 03/28/2012 17:07		CCB 600-75902/24 03/28/2012 17:30		CCB 600-75902/36 03/28/2012 17:53	
		Found	C	Found	C	Found	C	Found	C
<b>Mercury</b>	0.200	0.03928	J	0.03803	J	0.04586	J	0.05096	J

Italicized analytes were not requested for this sequence.



3-IN  
 INSTRUMENT BLANKS  
 METALS

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Lab Name: TestAmerica Houston Job No.: 600-52117-1

SDG No.: \_\_\_\_\_

Concentration Units: ug/L

Analyte	RL	CCB 600-75902/48 03/28/2012 18:15		CCB 600-75902/58 03/28/2012 18:33					
		Found	C	Found	C	Found	C	Found	C
<b>Mercury</b>	0.200	0.03617	J	0.07907	J				

*Italicized analytes were not requested for this sequence.*

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Concentration Units: mg/L Lab Sample ID: MB 600-75042/1-A  
 Instrument Code: TJA1 Batch No.: 75482

CAS No.	Analyte	Concentration	C	Q	Method
7439-92-1	Lead	0.00290	U		6010B

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3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Concentration Units: mg/L Lab Sample ID: MB 600-75754/1-A  
 Instrument Code: TJA1 Batch No.: 75851

CAS No.	Analyte	Concentration	C	Q	Method
7440-47-3	Cr	0.00155	U		6010B
7439-92-1	Pb	0.00290	U		6010B
7440-43-9	Cd	0.000350	U		6010B
7440-39-3	Ba	0.00220	U		6010B
7440-38-2	As	0.00328	U		6010B
7440-22-4	Ag	0.00125	U		6010B
7782-49-2	Se	0.00417	U		6010B

3-IN  
METHOD BLANK  
METALS - TCLP

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Concentration Units: mg/L Lab Sample ID: LB 600-75710/1-B  
 Instrument Code: TJA1 Batch No.: 75851

CAS No.	Analyte	Concentration	C	Q	Method
7440-47-3	Cr	0.0155	U		6010B
7439-92-1	Pb	0.0290	U		6010B
7440-43-9	Cd	0.00350	U		6010B
7440-39-3	Ba	0.05370	J		6010B
7440-38-2	As	0.03750	J		6010B
7440-22-4	Ag	0.0125	U		6010B
7782-49-2	Se	0.0417	U		6010B

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3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Concentration Units: ug/L Lab Sample ID: MB 600-75815/7-A  
 Instrument Code: FIMS01 Batch No.: 75902

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.04043	J		7470A

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3-IN  
 METHOD BLANK  
 METALS - TCLP

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Concentration Units: ug/L Lab Sample ID: LB 600-75710/1-E  
 Instrument Code: FIMS01 Batch No.: 75902

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.04243	J		7470A

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4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICSA 600-75482/7 Instrument ID: TJA1  
 Lab File ID: A032312 ICS Source: METISA\_00070  
 Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution A	Solution A	
<b>Lead</b>		<b>0.0025</b>	
Aluminum	500	511	102
Antimony		0.0029	
Arsenic		0.0010	
Barium		0.0017	
Beryllium		0.0000	
Boron		-0.0030	
Cadmium		-0.0044	
Calcium	500	463	93
Chromium		0.0020	
Cobalt		-0.0003	
Copper		0.0139	
Iron	200	198	99
Lithium		0.0044	
Magnesium	500	528	106
Manganese		-0.0079	
Molybdenum		0.0005	
Nickel		0.0008	
Potassium		0.128	
Selenium		-0.0037	
Silicon		0.0162	
Silver		0.0002	
Sodium		0.194	
Strontium		-0.0092	
Thallium		-0.0183	
Tin		-0.0013	
Titanium		-0.0035	
Vanadium		0.0033	
Zinc		-0.0014	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN



4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICSAB 600-75482/8 Instrument ID: TJA1  
 Lab File ID: A032312 ICS Source: METISB\_00072  
 Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
<b>Lead</b>	<b>1.00</b>	<b>0.982</b>	<b>98</b>
Aluminum	510	511	100
Antimony	1.00	1.03	103
Arsenic	1.00	1.03	103
Barium	1.00	1.02	102
Beryllium	0.500	0.496	99
Boron	1.00	1.03	103
Cadmium	0.500	0.469	94
Calcium	510	461	90
Chromium	1.00	0.976	98
Cobalt	1.00	0.946	95
Copper	1.00	1.06	106
Iron	210	203	97
Lithium	1.00	1.16	116
Magnesium	510	528	103
Manganese	1.00	0.970	97
Molybdenum	1.00	0.997	100
Nickel	1.00	0.934	93
Potassium	10.0	14.0	140
Selenium	1.00	1.02	102
Silicon	1.00	1.02	102
Silver	0.500	0.537	107
Sodium	10.0	13.1	131
Strontium	0.500	0.490	98
Thallium	1.00	0.964	96
Tin	1.00	0.999	100
Titanium	1.00	0.996	100
Vanadium	1.00	0.991	99
Zinc	1.00	1.01	101

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN



4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICSA 600-75851/7 Instrument ID: TJA1  
 Lab File ID: A032812 ICS Source: METISA\_00072  
 Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution A	Solution A	
<b>Ag</b>		-0.0004	
<b>As</b>		0.0014	
<b>Ba</b>		0.0018	
<b>Cd</b>		-0.0043	
<b>Cr</b>		0.0020	
<b>Pb</b>		0.0059	
<b>Se</b>		-0.0044	
Aluminum	500	500	100
Antimony		-0.0019	
Beryllium		-0.0001	
Boron		0.0014	
Calcium	500	452	90
Cobalt		-0.0006	
Copper		0.0133	
Iron	200	195	97
Lithium		0.0044	
Magnesium	500	516	103
Manganese		-0.0076	
Molybdenum		0.0004	
Nickel		0.0002	
Potassium		0.127	
Silicon		0.0111	
Sodium		0.194	
Strontium		-0.0089	
Thallium		-0.0078	
Tin		-0.0035	
Titanium		-0.0031	
Vanadium		0.0040	
Zinc		-0.0014	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN



4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICSAB 600-75851/8 Instrument ID: TJA1  
 Lab File ID: A032812 ICS Source: METISB\_00074  
 Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
<b>Ag</b>	<b>0.500</b>	<b>0.553</b>	<b>111</b>
<b>As</b>	<b>1.00</b>	<b>1.05</b>	<b>105</b>
<b>Ba</b>	<b>1.00</b>	<b>1.06</b>	<b>106</b>
<b>Cd</b>	<b>0.500</b>	<b>0.484</b>	<b>97</b>
<b>Cr</b>	<b>1.00</b>	<b>0.996</b>	<b>100</b>
<b>Pb</b>	<b>1.00</b>	<b>1.00</b>	<b>100</b>
<b>Se</b>	<b>1.00</b>	<b>1.03</b>	<b>103</b>
<i>Aluminum</i>	<i>510</i>	<i>516</i>	<i>101</i>
<i>Antimony</i>	<i>1.00</i>	<i>1.06</i>	<i>106</i>
<i>Beryllium</i>	<i>0.500</i>	<i>0.503</i>	<i>101</i>
<i>Boron</i>	<i>1.00</i>	<i>1.07</i>	<i>107</i>
<i>Calcium</i>	<i>510</i>	<i>462</i>	<i>91</i>
<i>Cobalt</i>	<i>1.00</i>	<i>0.965</i>	<i>97</i>
<i>Copper</i>	<i>1.00</i>	<i>1.09</i>	<i>109</i>
<i>Iron</i>	<i>210</i>	<i>206</i>	<i>98</i>
<i>Lithium</i>	<i>1.00</i>	<i>1.20</i>	<i>120</i>
<i>Magnesium</i>	<i>510</i>	<i>530</i>	<i>104</i>
<i>Manganese</i>	<i>1.00</i>	<i>0.994</i>	<i>99</i>
<i>Molybdenum</i>	<i>1.00</i>	<i>1.02</i>	<i>102</i>
<i>Nickel</i>	<i>1.00</i>	<i>0.971</i>	<i>97</i>
<i>Potassium</i>	<i>10.0</i>	<i>14.4</i>	<i>144</i>
<i>Silicon</i>	<i>1.00</i>	<i>1.03</i>	<i>103</i>
<i>Sodium</i>	<i>10.0</i>	<i>13.5</i>	<i>135</i>
<i>Strontium</i>	<i>0.500</i>	<i>0.511</i>	<i>102</i>
<i>Thallium</i>	<i>1.00</i>	<i>1.02</i>	<i>102</i>
<i>Tin</i>	<i>1.00</i>	<i>1.02</i>	<i>102</i>
<i>Titanium</i>	<i>1.00</i>	<i>1.02</i>	<i>102</i>
<i>Vanadium</i>	<i>1.00</i>	<i>1.01</i>	<i>101</i>
<i>Zinc</i>	<i>1.00</i>	<i>1.05</i>	<i>105</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICSA 600-75851/111 Instrument ID: TJA1  
 Lab File ID: A032812 ICS Source: METISA\_00072  
 Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution A	Solution A	
<b>Ag</b>		<b>-0.0008</b>	
<b>As</b>		<b>0.0021</b>	
<b>Ba</b>		<b>0.0019</b>	
<b>Cd</b>		<b>-0.0068</b>	
<b>Cr</b>		<b>0.0018</b>	
<b>Pb</b>		<b>0.0065</b>	
<b>Se</b>		<b>-0.0122</b>	
Aluminum	500	496	99
Antimony		0.0033	
Beryllium		-0.0009	
Boron		-0.0096	
Calcium	500	453	91
Cobalt		-0.0008	
Copper		0.0111	
Iron	200	200	100
Lithium		0.0051	
Magnesium	500	509	102
Manganese		-0.0073	
Molybdenum		0.0019	
Nickel		0.0000	
Potassium		0.403	
Silicon		0.0056	
Sodium		0.0424	
Sodium		0.255	
Strontium		-0.0088	
Thallium		0.0105	
Tin		-0.0040	
Titanium		-0.0034	
Vanadium		0.0044	
Zinc		-0.0027	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN



4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICSAB 600-75851/112 Instrument ID: TJA1  
 Lab File ID: A032812 ICS Source: METISB\_00074  
 Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
<b>Ag</b>	<b>0.500</b>	<b>0.553</b>	<b>111</b>
<b>As</b>	<b>1.00</b>	<b>1.06</b>	<b>106</b>
<b>Ba</b>	<b>1.00</b>	<b>1.11</b>	<b>111</b>
<b>Cd</b>	<b>0.500</b>	<b>0.507</b>	<b>101</b>
<b>Cr</b>	<b>1.00</b>	<b>0.973</b>	<b>97</b>
<b>Pb</b>	<b>1.00</b>	<b>1.02</b>	<b>102</b>
<b>Se</b>	<b>1.00</b>	<b>1.02</b>	<b>102</b>
<i>Aluminum</i>	<i>510</i>	<i>504</i>	<i>99</i>
<i>Antimony</i>	<i>1.00</i>	<i>1.11</i>	<i>111</i>
<i>Beryllium</i>	<i>0.500</i>	<i>0.477</i>	<i>95</i>
<i>Boron</i>	<i>1.00</i>	<i>1.09</i>	<i>109</i>
<i>Calcium</i>	<i>510</i>	<i>461</i>	<i>90</i>
<i>Cobalt</i>	<i>1.00</i>	<i>0.947</i>	<i>95</i>
<i>Copper</i>	<i>1.00</i>	<i>1.06</i>	<i>106</i>
<i>Iron</i>	<i>210</i>	<i>210</i>	<i>100</i>
<i>Lithium</i>	<i>1.00</i>	<i>1.24</i>	<i>124</i>
<i>Magnesium</i>	<i>510</i>	<i>519</i>	<i>102</i>
<i>Manganese</i>	<i>1.00</i>	<i>0.991</i>	<i>99</i>
<i>Molybdenum</i>	<i>1.00</i>	<i>1.04</i>	<i>104</i>
<i>Nickel</i>	<i>1.00</i>	<i>1.01</i>	<i>101</i>
<i>Potassium</i>	<i>10.0</i>	<i>15.2</i>	<i>152</i>
<i>Silicon</i>	<i>1.00</i>	<i>1.02</i>	<i>102</i>
<i>Sodium</i>	<i>10.0</i>	<i>12.1</i>	<i>121</i>
<i>Sodium</i>	<i>10.0</i>	<i>14.0</i>	<i>140</i>
<i>Strontium</i>	<i>0.500</i>	<i>0.537</i>	<i>107</i>
<i>Thallium</i>	<i>1.00</i>	<i>1.10</i>	<i>110</i>
<i>Tin</i>	<i>1.00</i>	<i>1.02</i>	<i>102</i>
<i>Titanium</i>	<i>1.00</i>	<i>1.03</i>	<i>103</i>
<i>Vanadium</i>	<i>1.00</i>	<i>0.996</i>	<i>100</i>
<i>Zinc</i>	<i>1.00</i>	<i>1.07</i>	<i>107</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

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5A-IN  
MATRIX SPIKE SAMPLE RECOVERY  
METALS - TCLP

Client ID: IDW 3 MS Lab ID: 600-52117-1 MS  
 Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Concentration Units: mg/L  
 % Solids: \_\_\_\_\_

Analyte	SSR C	Sample Result (SR) C	U	Spike Added (SA)	%R	Control Limit %R	Q	Method
Cr	10.21	0.0155	U	10.0	102	75-125		6010B
Pb	10.33	0.0290	U	10.0	103	75-125		6010B
Cd	5.289	0.00350	U	5.00	106	75-125		6010B
Ba	10.98	0.415		10.0	106	75-125		6010B
As	10.62	0.0328	U	10.0	106	75-125		6010B
Ag	4.830	0.0125	U	5.00	97	75-125		6010B
Se	10.32	0.0417	U	10.0	103	75-125		6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN



7A-IN  
 LAB CONTROL SAMPLE  
 METALS

Lab ID: LCS 600-75042/2-A

Lab Name: TestAmerica Houston

Job No.: 600-52117-1

Sample Matrix: Water

LCS Source: METSPIKEA\_00011

Analyte	Water (mg/L)							
	True	Found	C	%R	Limits		Q	Method
Lead	1.00	0.9845		98	80	120		6010B

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Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN



7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 600-75754/2-ALab Name: TestAmerica HoustonJob No.: 600-52117-1Sample Matrix: WaterLCS Source: METSPIKEA\_00011

Analyte	Water (mg/L)							
	True	Found	C	%R	Limits		Q	Method
Cr	1.00	1.030		103	80	120		6010B
Pb	1.00	1.036		104	80	120		6010B
Cd	0.500	0.5266		105	80	120		6010B
Ba	1.00	1.041		104	80	120		6010B
As	1.00	1.039		104	80	120		6010B
Ag	0.500	0.5176		104	80	120		6010B
Se	1.00	1.029		103	80	120		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

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7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 600-75815/8-A

Lab Name: TestAmerica Houston

Job No.: 600-52117-1

Sample Matrix: Water

LCS Source: MER0312S2\_00019

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	3.00	3.015		100	70	130		7470A

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Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
METALS

Lab Name: TestAmerica Houston Job Number: 600-52117-1  
SDG Number: \_\_\_\_\_  
Matrix: Water Instrument ID: TJA1  
Method: 6010B XMDL Date: 05/16/2008 15:08

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Lead		0.01	0.0029

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9-IN  
DETECTION LIMITS  
METALS - TCLP

Lab Name: TestAmerica Houston Job Number: 600-52117-1  
 SDG Number: \_\_\_\_\_  
 Matrix: Water Instrument ID: TJA1  
 Method: 6010B MDL Date: 03/28/2011 11:53  
 Prep Method: 3010A  
 Leach Method: 1311

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Ag		0.01	0.00125
As		0.01	0.00328
Ba		0.02	0.0022
Cd		0.005	0.00035
Cr		0.01	0.00155
Pb		0.01	0.0029
Se		0.04	0.00417

9-IN  
 CALIBRATION BLANK DETECTION LIMITS  
 METALS - TCLP

Lab Name: TestAmerica Houston Job Number: 600-52117-1  
 SDG Number: \_\_\_\_\_  
 Matrix: Water Instrument ID: TJA1  
 Method: 6010B XMDL Date: 05/16/2008 15:08

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ag		0.01	0.00125
As		0.01	0.00328
Ba		0.02	0.0022
Cd		0.005	0.00035
Cr		0.01	0.00155
Pb		0.01	0.0029
Se		0.04	0.00417



9-IN  
 DETECTION LIMITS  
 METALS - TCLP

Lab Name: TestAmerica Houston Job Number: 600-52117-1  
 SDG Number: \_\_\_\_\_  
 Matrix: Water Instrument ID: FIMS01  
 Method: 7470A MDL Date: 03/02/2009 11:39  
 Prep Method: 7470A  
 Leach Method: 1311

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.026

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9-IN  
 CALIBRATION BLANK DETECTION LIMITS  
 METALS - TCLP

Lab Name: TestAmerica Houston Job Number: 600-52117-1  
 SDG Number: \_\_\_\_\_  
 Matrix: Water Instrument ID: FIMS01  
 Method: 7470A XMDL Date: 05/16/2008 15:13

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.026

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11-IN  
LINEAR RANGES  
METALS

Lab Name: TestAmerica Houston Job No: 600-52117-1

SDG No.: \_\_\_\_\_

Instrument ID: TJA1 Date: 03/14/2006 13:24

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Pb		50	6010B
Cr		50	6010B
Lead		50	6010B
Cd		25	6010B
Ba		50	6010B
As		50	6010B
Ag		5	6010B
Se		25	6010B

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12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1

SDG No.: \_\_\_\_\_

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 600-75042/1-A	03/19/2012 11:36	75042		50	50
LCS 600-75042/2-A	03/19/2012 11:36	75042		50	50
600-52117-1	03/19/2012 11:36	75042		50	50

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12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1

SDG No.: \_\_\_\_\_

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 600-75754/1-A	03/27/2012 14:15	75754		50	50
LCS 600-75754/2-A	03/27/2012 14:15	75754		50	50
LB 600-75710/1-B	03/27/2012 14:15	75754		5	50
600-52117-1	03/27/2012 14:15	75754		5	50
600-52117-1 MS	03/27/2012 14:15	75754		5	50

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12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1

SDG No.: \_\_\_\_\_

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 600-75815/7-A	03/28/2012 08:49	75815		40	40
LCS 600-75815/8-A	03/28/2012 08:49	75815		50	50
LB 600-75710/1-E	03/28/2012 08:49	75815		40	40
600-52117-1	03/28/2012 08:49	75815		40	40

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13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: TJA1 Method: 6010B  
 Start Date: 03/23/2012 07:34 End Date: 03/23/2012 15:06

Lab Sample ID	D / F	T y p e	Time	Analytes															
				P b															
ZZZZZZ			07:34																
STD 600-75482/2 IC			07:39	X															
ZZZZZZ			07:48																
ICV 600-75482/4	1		07:52	X															
ICB 600-75482/5	1		07:56	X															
CRI 600-75482/6	1		08:00	X															
ICSA 600-75482/7	1		08:04	X															
ICSAB 600-75482/8	1		08:07	X															
CCV 600-75482/9			08:11																
CCB 600-75482/10			08:15																
ZZZZZZ			08:37																
ZZZZZZ			08:41																
ZZZZZZ			08:44																
ZZZZZZ			08:48																
ZZZZZZ			08:52																
ZZZZZZ			08:56																
ZZZZZZ			09:00																
ZZZZZZ			09:04																
ZZZZZZ			09:08																
ZZZZZZ			09:11																
CCV 600-75482/21			09:15																
CCB 600-75482/22			09:19																
ZZZZZZ			09:23																
ZZZZZZ			09:27																
ZZZZZZ			09:31																
ZZZZZZ			09:34																
ZZZZZZ			09:38																
ZZZZZZ			09:42																
ZZZZZZ			09:46																
ZZZZZZ			09:50																
ZZZZZZ			09:54																
ZZZZZZ			09:58																
CCV 600-75482/33			10:01																
CCB 600-75482/34			10:05																
ZZZZZZ			10:09																
ZZZZZZ			10:13																
ZZZZZZ			10:17																
ZZZZZZ			10:21																
ZZZZZZ			10:25																
ZZZZZZ			10:28																
ZZZZZZ			10:32																
ZZZZZZ			10:36																

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13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: TJA1 Method: 6010B  
 Start Date: 03/28/2012 09:48 End Date: 03/28/2012 19:23

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			09:48																
STD 600-75851/2 IC			09:52	X	X	X	X	X	X	X									
ZZZZZZ			09:57																
ICV 600-75851/4	1		10:01	X	X	X	X	X	X	X									
ICB 600-75851/5	1		10:05	X	X	X	X	X	X	X									
CRI 600-75851/6	1		10:09	X	X	X	X	X	X	X									
ICSA 600-75851/7	1		10:12	X	X	X	X	X	X	X									
ICSAB 600-75851/8	1		10:16	X	X	X	X	X	X	X									
CCV 600-75851/9	1		10:20	X	X	X	X	X	X	X									
CCB 600-75851/10	1		10:24	X	X	X	X	X	X	X									
MB 600-75754/1-A	1	T	10:31	X	X	X	X	X	X	X									
LCS 600-75754/2-A	1	T	10:35	X	X	X	X	X	X	X									
LB 600-75710/1-B	1	P	10:39	X	X	X	X	X	X	X									
ZZZZZZ			10:42																
ZZZZZZ			10:46																
ZZZZZZ			10:50																
ZZZZZZ			10:54																
ZZZZZZ			10:58																
ZZZZZZ			11:02																
600-52117-1	1	P	11:05	X	X	X	X	X	X	X									
CCV 600-75851/21	1		11:09	X	X	X	X	X	X	X									
CCB 600-75851/22	1		11:13	X	X	X	X	X	X	X									
600-52117-1 MS	1	P	11:17	X	X	X	X	X	X	X									
ZZZZZZ			11:21																
ZZZZZZ			11:25																
ZZZZZZ			11:29																
ZZZZZZ			11:32																
ZZZZZZ			11:36																
ZZZZZZ			11:40																
ZZZZZZ			11:44																
ZZZZZZ			11:48																
ZZZZZZ			11:52																
CCV 600-75851/33	1		11:56	X	X	X	X	X	X	X									
CCB 600-75851/34	1		11:59	X	X	X	X	X	X	X									
ZZZZZZ			12:03																
ZZZZZZ			12:07																
ZZZZZZ			12:11																
ZZZZZZ			12:15																
ZZZZZZ			12:19																
ZZZZZZ			12:23																
ZZZZZZ			12:26																
ZZZZZZ			12:30																

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13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: TJA1 Method: 6010B  
 Start Date: 03/28/2012 09:48 End Date: 03/28/2012 19:23

Lab Sample ID	D / F	T y p e	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			12:34																
ZZZZZZ			12:38																
CCV 600-75851/45	1		12:42	X	X	X	X	X	X	X									
CCB 600-75851/46	1		12:46	X	X	X	X	X	X	X									
ZZZZZZ			13:09																
ZZZZZZ			13:13																
ZZZZZZ			13:17																
ZZZZZZ			13:20																
ZZZZZZ			13:24																
ZZZZZZ			13:28																
ZZZZZZ			13:32																
ZZZZZZ			13:36																
ZZZZZZ			13:40																
ZZZZZZ			13:44																
CCV 600-75851/57			13:47																
CCB 600-75851/58			13:51																
ZZZZZZ			13:55																
ZZZZZZ			14:02																
ZZZZZZ			14:06																
ZZZZZZ			14:09																
ZZZZZZ			14:13																
ZZZZZZ			14:17																
ZZZZZZ			14:21																
ZZZZZZ			14:25																
ZZZZZZ			14:29																
ZZZZZZ			14:33																
CCV 600-75851/69			14:36																
CCB 600-75851/70			14:40																
ZZZZZZ			14:44																
ZZZZZZ			14:48																
ZZZZZZ			14:52																
ZZZZZZ			14:56																
ZZZZZZ			14:59																
ZZZZZZ			15:03																
ZZZZZZ			15:07																
ZZZZZZ			15:11																
ZZZZZZ			15:15																
ZZZZZZ			15:19																
CCV 600-75851/81			15:23																
CCB 600-75851/82			15:26																
ZZZZZZ			17:32																
ZZZZZZ			17:35																

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13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: TJA1 Method: 6010B  
 Start Date: 03/28/2012 09:48 End Date: 03/28/2012 19:23

Lab Sample ID	D / F	T y p e	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			17:39																
ZZZZZZ			17:43																
ZZZZZZ			17:47																
ZZZZZZ			17:51																
ZZZZZZ			17:55																
ZZZZZZ			17:59																
ZZZZZZ			18:02																
ZZZZZZ			18:06																
CCV 600-75851/93			18:10																
CCB 600-75851/94			18:14																
ZZZZZZ			18:18																
ZZZZZZ			18:22																
ZZZZZZ			18:25																
ZZZZZZ			18:29																
ZZZZZZ			18:33																
ZZZZZZ			18:37																
ZZZZZZ			18:41																
ZZZZZZ			18:45																
ZZZZZZ			18:49																
ZZZZZZ			18:52																
CCV 600-75851/105			18:56																
CCB 600-75851/106			19:00																
ZZZZZZ			19:04																
ZZZZZZ			19:08																
CCV 600-75851/109			19:12																
CCB 600-75851/110			19:16																
ICSA 600-75851/111	1		19:19	X	X	X	X	X	X	X									
ICSAB 600-75851/112	1		19:23	X	X	X	X	X	X	X									

Prep Types  
 P = TCLP  
 T = Total/NA







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A032312

## [Sample Header]

Method=ICP6500Metals\_TRY3(v757)  
 SampleName=Rinse  
 Username=admin  
 Comment=  
 Custom ID1=  
 Custom ID2=  
 Custom ID3=  
 Run Time=3/23/2012 8:45:54  
 Sample Type=Unk  
 Mode=CONC  
 CorrFactor=1.000  
 Repeats=2

## [Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag	3280		{103},Y_3600,ppm	.0002	.0004	175.5	.0005	.0000
Al	3082		{109},In2306,ppm	-.0447	.0151	33.68	-.0341	-.0554
As	1890		{478},Y_2243,ppm	.0025	.0003	11.78	.0023	.0027
B	2496		{135},Y_3710,ppm	-.0011	.0058	508.1	-.0053	.0030
Ba	4554		{74},Y_3710,ppm	-.0001	.0001	244.3	-.0001	.0000
Be	3130		{108},Y_3710,ppm	-.0002	.0001	25.99	-.0002	-.0003
Ca	3158		{107},In2306,ppm	.0056	.0102	182.7	-.0016	.0128
Ca	3181		{106},In2306,ppm	-.0225	.0289	128.2	-.0021	-.0430
Cd	2288		{447},Y_2243,ppm	.0001	.0000	10.02	.0001	.0001
Co	2286		{447},In2306,ppm	.0000	.0003	604.1	.0001	-.0002
Cr	2677		{126},Y_3600,ppm	.0001	.0001	98.67	.0002	.0000
Cu	3247		{104},Y_3600,ppm	.0007	.0013	179.0	-.0002	.0016
Fe	2404		{140},In2306,ppm	.0003	.0028	808.8	.0023	-.0016
K	7664		{44},Y_3710,ppm	.0076	.0080	105.6	.0132	.0019
K	7698		{44},Y_3710,ppm	-.0644	.0272	42.28	-.0452	-.0837
Li	6707		{50},Y_3710,ppm	.0004	.0001	34.57	.0004	.0003
Mg	2790		{121},Y_3710,ppm	.0205	.0063	30.57	.0161	.0249
Mn	2576		{131},Y_3600,ppm	.0002	.0001	22.43	.0002	.0003
Mn	2576-2		{131}2,Y_3710,ppm	.0001	.0006	1016.	-.0004	.0005
Mo	2020		{467},Y_2243,ppm	.0000	.0001	202.4	.0000	.0001
Na	5895		{57},Y_3710,ppm	.0169	.0023	13.43	.0185	.0153
Na	8183		{41},Y_3710,ppm	.5787	.1110	19.18	.5002	.6572
Ni	2316		{445},In2306,ppm	.0000	.0001	225.1	.0001	.0000
P	1782		{489},In2306,ppm	-.0017	.0001	3.374	-.0018	-.0017
Pb	2203		{453},In2306,ppm	.0011	.0000	3.450	.0011	.0011
S	1820		{485},Y_2243,ppm	-.0679	.0883	130.0	-.0055	-.1304
Sb	2068		{463},Y_2243,ppm	.0017	.0020	121.4	.0031	.0002
Se	1960		{472},Y_2243,ppm	.0017	.0005	28.19	.0014	.0021
Si	2516		{134},Y_3710,ppm	-.0133	.0095	71.45	-.0200	-.0066
Sn	1899		{477},In2306,ppm	-.0002	.0000	19.82	-.0003	-.0002
Sr	4215		{80},Y_3710,ppm	.0001	.0000	17.12	.0001	.0001
Ti	3349		{101},Y_3600,ppm	.0000	.0003	584.7	.0001	-.0002
Tl	1908		{477},In2306,ppm	.0006	.0001	8.951	.0006	.0005
V	2924		{115},Y_3600,ppm	-.0001	.0001	142.7	.0000	-.0001
Zn	2062		{463},In2306,ppm	.0011	.0001	9.267	.0012	.0010

## [Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In	2306		{146},Cts/S	425.16	3.8471	.90486	427.88,422.44
In	2306		{446},Cts/S	15131.	11.158	.07374	15139.,15123.
Y	2243		{450},Cts/S	19523.	12.931	.06623	19533.,19514.
Y	3600		{94},Cts/S	147480.	10343.	.7.0132	140160.,154790.
Y	3710		{91},Cts/S	18953.	208.55	1.1003	19101.,18806.

## [Sample Header]

Method=ICP6500Metals\_TRY3(v757)

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A032312

SampleName=Rinse  
 Username=admin  
 Comment=  
 Custom ID1=  
 Custom ID2=  
 Custom ID3=  
 Run Time=3/23/2012 8:48:31  
 Sample Type=Unk  
 Mode=CONC  
 CorrFactor=1.000  
 Repeats=2

## [Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag	3280	328.068	{103},Y_3600,ppm	.0002	.0001	36.15	.0003	.0002
Al	3082	308.215	{109},In2306,ppm	-.0456	.0100	21.86	-.0526	-.0385
As	1890	189.042	{478},Y_2243,ppm	-.0002	.0004	162.4	-.0005	.0000
B	2496	249.678	{135},Y_3710,ppm	-.0041	.0063	154.8	.0004	-.0085
Ba	4554	455.403	{74},Y_3710,ppm	.0000	.0002	472.5	-.0001	.0001
Be	3130	313.042	{108},Y_3710,ppm	-.0001	.0000	42.69	-.0001	-.0001
Ca	3158	315.887	{107},In2306,ppm	-.0028	.0026	92.35	-.0047	-.0010
Ca	3181	318.128	{106},In2306,ppm	-.0203	.0185	91.26	-.0334	-.0072
Cd	2288	228.802	{447},Y_2243,ppm	.0001	.0000	13.20	.0002	.0001
Co	2286	228.616	{447},In2306,ppm	.0002	.0001	20.40	.0003	.0002
Cr	2677	267.716	{126},Y_3600,ppm	-.0001	.0002	184.3	-.0002	.0000
Cu	3247	324.754	{104},Y_3600,ppm	.0000	.0014	5601.	.0010	-.0010
Fe	2404	240.488	{140},In2306,ppm	.0003	.0042	1519.	.0032	-.0027
K	7664	766.490	{44},Y_3710,ppm	-.0233	.0127	54.58	-.0323	-.0143
K	7698	769.896	{44},Y_3710,ppm	-.1361	.0373	27.38	-.1624	-.1097
Li	6707	670.784	{50},Y_3710,ppm	.0002	.0007	394.4	.0007	-.0003
Mg	2790	279.079	{121},Y_3710,ppm	-.0190	.0092	48.54	-.0125	-.0256
Mn	2576	257.610	{131},Y_3600,ppm	.0001	.0001	92.78	.0000	.0001
Mn	2576-2	257.610	{131}2,Y_3710,ppm	-.0001	.0003	342.7	.0001	-.0003
Mo	2020	202.030	{467},Y_2243,ppm	.0002	.0002	127.0	.0000	.0003
Na	5895	589.592	{57},Y_3710,ppm	-.0007	.0046	681.2	.0026	-.0039
Na	8183	818.326	{41},Y_3710,ppm	.6871	.1387	20.19	.7851	.5890
Ni	2316	231.604	{445},In2306,ppm	.0004	.0003	66.65	.0006	.0002
P	1782	178.284	{489},In2306,ppm	-.0029	.0016	56.18	-.0040	-.0017
Pb	2203	220.353	{453},In2306,ppm	-.0002	.0017	932.9	-.0014	.0010
S	1820	182.034	{485},Y_2243,ppm	-.0767	.1255	163.5	.0120	-.1654
Sb	2068	206.833	{463},Y_2243,ppm	-.0012	.0000	2.873	-.0012	-.0013
Se	1960	196.090	{472},Y_2243,ppm	.0021	.0017	78.07	.0010	.0033
Si	2516	251.611	{134},Y_3710,ppm	.0002	.0107	5717.	-.0074	.0078
Sn	1899	189.989	{477},In2306,ppm	-.0001	.0006	476.7	.0003	-.0006
Sr	4215	421.552	{80},Y_3710,ppm	.0002	.0000	7.438	.0002	.0002
Ti	3349	334.904	{101},Y_3600,ppm	-.0002	.0004	172.3	.0001	-.0005
Tl	1908	190.856	{477},In2306,ppm	-.0002	.0014	581.9	.0007	-.0012
V	2924	292.402	{115},Y_3600,ppm	-.0001	.0001	63.39	-.0001	-.0001
Zn	2062	206.200	{463},In2306,ppm	.0000	.0001	3038.	.0001	-.0001

## [Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In	2306	230.606	{146},Cts/S	430.59	3.8051	.88369	427.90,433.28
In	2306	230.606	{446},Cts/S	15121.	18.616	.12311	15108.,15134.
Y	2243	224.306	{450},Cts/S	19560.	18.672	.09546	19547.,19573.
Y	3600	360.073	{94},Cts/S	152120.	8881.6	5.8386	158400.,145840.
Y	3710	371.030	{91},Cts/S	19200.	377.97	1.9686	18933.,19467.

## [Sample Header]

Method=ICP6500Metals\_TRY3(v757)  
 SampleName=Blank  
 Username=admin  
 Comment=

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A032312

Custom ID1=  
 Custom ID2=  
 Custom ID3=  
 Run Time=3/23/2012 8:51:11  
 Sample Type=Cal  
 Mode=IR  
 CorrFactor=1.000  
 Repeats=2

## [Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag3280	328.068	{103}	Y_3600,Cts/S	.0001	.0000	40.99	.0001	.0001
Al3082	308.215	{109}	In2306,Cts/S	.0286	.0046	15.92	.0254	.0318
As1890	189.042	{478}	Y_2243,Cts/S	.0000	.0000	458.0	.0000	.0000
B_2496	249.678	{135}	Y_3710,Cts/S	.0002	.0001	56.19	.0002	.0001
Ba4554	455.403	{74}	Y_3710,Cts/S	.0034	.0002	7.250	.0035	.0032
Be3130	313.042	{108}	Y_3710,Cts/S	.0000	.0001	155.8	.0000	.0001
Ca3158	315.887	{107}	In2306,Cts/S	-.0069	.0017	25.30	-.0057	-.0081
Ca3181	318.128	{106}	In2306,Cts/S	-.0027	.0038	141.4	.0000	-.0053
Cd2288	228.802	{447}	Y_2243,Cts/S	.0003	.0000	15.09	.0003	.0003
Cd2286	228.616	{447}	In2306,Cts/S	-.0003	.0001	25.37	-.0004	-.0003
Cr2677	267.716	{126}	Y_3600,Cts/S	.0000	.0000	42.32	.0000	.0000
Cu3247	324.754	{104}	Y_3600,Cts/S	.0050	.0000	.2199	.0050	.0050
Fe2404	240.488	{140}	In2306,Cts/S	.0055	.0002	3.303	.0056	.0054
K_7664	766.490	{44}	Y_3710,Cts/S	.0007	.0002	31.70	.0006	.0009
K_7698	769.896	{44}	Y_3710,Cts/S	.0063	.0002	3.222	.0061	.0064
Li6707	670.784	{50}	Y_3710,Cts/S	.0023	.0005	22.16	.0027	.0019
Mg2790	279.079	{121}	Y_3710,Cts/S	.0000	.0001	315.1	.0000	-.0001
Mn2576	257.610	{131}	Y_3600,Cts/S	.0001	.0000	35.47	.0001	.0001
Mn2576-2	257.610	{131}2	Y_3710,Cts/S	.0000	.0000	127.0	.0000	.0000
Mo2020	202.030	{467}	Y_2243,Cts/S	.0001	.0000	35.99	.0001	.0001
Na5895	589.592	{57}	Y_3710,Cts/S	.0025	.0005	22.22	.0029	.0021
Na8183	818.326	{41}	Y_3710,Cts/S	-.0008	.0002	23.45	-.0009	-.0007
Ni2316	231.604	{445}	In2306,Cts/S	.0000	.0001	407.2	.0001	-.0001
P_1782	178.284	{489}	In2306,Cts/S	.0002	.0000	2.412	.0002	.0002
Pb2203	220.353	{453}	In2306,Cts/S	.0000	.0001	105.7	-.0001	.0000
S_1820	182.034	{485}	Y_2243,Cts/S	-.0007	.0000	4.673	-.0007	-.0008
Sb2068	206.833	{463}	Y_2243,Cts/S	.0000	.0000	81.15	.0000	.0000
Se1960	196.090	{472}	Y_2243,Cts/S	.0000	.0000	321.5	.0000	.0000
Si2516	251.611	{134}	Y_3710,Cts/S	.0003	.0000	2.853	.0003	.0004
Sn1899	189.989	{477}	In2306,Cts/S	.0001	.0000	17.50	.0001	.0000
Sr4215	421.552	{80}	Y_3710,Cts/S	-.0004	.0004	94.18	-.0007	-.0001
Ti3349	334.904	{101}	Y_3600,Cts/S	.0000	.0000	42.28	.0000	-.0001
Tl1908	190.856	{477}	In2306,Cts/S	-.0001	.0000	6.177	-.0001	-.0001
V_2924	292.402	{115}	Y_3600,Cts/S	-.0001	.0000	34.64	-.0001	-.0001
Zn2062	206.200	{463}	In2306,Cts/S	.0005	.0000	5.840	.0005	.0005

## [Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{146}	Cts/S	430.22	4.2874	.99657	433.25,427.18
In2306	230.606	{446}	Cts/S	15074.	1.9350	.01284	15073.,15076.
Y_2243	224.306	{450}	Cts/S	19426.	9.6569	.04971	19433.,19419.
Y_3600	360.073	{94}	Cts/S	153390.	91.533	.05967	153450.,153320.
Y_3710	371.030	{91}	Cts/S	19061.	190.49	.99940	18926.,19195.

## [Sample Header]

Method=ICP6500Metals\_TRY3(v757)  
 SampleName=CalibStd-1  
 Username=admin  
 Comment=  
 Custom ID1=  
 Custom ID2=  
 Custom ID3=

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A032312

Run Time=3/23/2012 8:53:48

Sample Type=Ca1

Mode=IR

CorrFactor=1.000

Repeats=2

## [Results]

Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2

Ag3280	328.068	{103}	Y_3600	Cts/S	.0079	.0001	1.029	.0080	.0078
Al3082	308.215	{109}	In2306	Cts/S	.3613	.0018	.4977	.3601	.3626
As1890	189.042	{478}	Y_2243	Cts/S	.0052	.0002	3.545	.0053	.0051
B_2496	249.678	{135}	Y_3710	Cts/S	.0030	.0001	3.315	.0031	.0030
Ba4554	455.403	{74}	Y_3710	Cts/S	.2543	.0002	.0721	.2542	.2545
Be3130	313.042	{108}	Y_3710	Cts/S	.1232	.0003	.2351	.1230	.1234
Ca3158	315.887	{107}	In2306	Cts/S	1.220	.0035	.2906	1.217	1.222
Ca3181	318.128	{106}	In2306	Cts/S	.2731	.0032	1.187	.2708	.2754
Cd2288	228.802	{447}	Y_2243	Cts/S	.0542	.0013	2.444	.0551	.0533
Co2286	228.616	{447}	In2306	Cts/S	.0886	.0027	3.037	.0905	.0867
Cr2677	267.716	{126}	Y_3600	Cts/S	.0128	.0000	.0443	.0128	.0128
Cu3247	324.754	{104}	Y_3600	Cts/S	.0309	.0000	.1141	.0309	.0310
Fe2404	240.488	{140}	In2306	Cts/S	1.214	.0115	.9464	1.206	1.222
K_7664	766.490	{44}	Y_3710	Cts/S	.0366	.0013	3.643	.0357	.0376
K_7698	769.896	{44}	Y_3710	Cts/S	.0210	.0002	.7994	.0211	.0209
Li6707	670.784	{50}	Y_3710	Cts/S	.0832	.0002	.2925	.0834	.0830
Mg2790	279.079	{121}	Y_3710	Cts/S	.0067	.0001	2.088	.0068	.0066
Mn2576	257.610	{131}	Y_3600	Cts/S	.0814	.0000	.0086	.0813	.0814
Mn2576-2	257.610	{131}2	Y_3710	Cts/S	.0296	.0002	.7228	.0295	.0298
Mo2020	202.030	{467}	Y_2243	Cts/S	.0287	.0008	2.885	.0293	.0281
Na5895	589.592	{57}	Y_3710	Cts/S	.1074	.0003	.2974	.1072	.1076
Na8183	818.326	{41}	Y_3710	Cts/S	.0034	.0002	4.750	.0033	.0035
Ni2316	231.604	{445}	In2306	Cts/S	.0474	.0013	2.715	.0483	.0465
P_1782	178.284	{489}	In2306	Cts/S	.0050	.0001	2.072	.0050	.0049
Pb2203	220.353	{453}	In2306	Cts/S	.0151	.0003	2.093	.0154	.0149
S_1820	182.034	{485}	Y_2243	Cts/S	-.0007	.0000	1.125	-.0007	-.0006
Sb2068	206.833	{463}	Y_2243	Cts/S	.0045	.0001	3.104	.0046	.0044
Se1960	196.090	{472}	Y_2243	Cts/S	.0033	.0001	1.932	.0034	.0033
Si2516	251.611	{134}	Y_3710	Cts/S	.0023	.0000	1.898	.0023	.0024
Sn1899	189.989	{477}	In2306	Cts/S	.0188	.0005	2.546	.0191	.0184
Sr4215	421.552	{80}	Y_3710	Cts/S	.1683	.0002	.1314	.1681	.1684
Ti3349	334.904	{101}	Y_3600	Cts/S	.0218	.0002	.7571	.0217	.0219
Tl1908	190.856	{477}	In2306	Cts/S	.0058	.0002	4.209	.0059	.0056
V_2924	292.402	{115}	Y_3600	Cts/S	.0197	.0002	.8549	.0196	.0198
Zn2062	206.200	{463}	In2306	Cts/S	.1118	.0033	2.935	.1141	.1094

## [Internal standards]

Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2

In2306	230.606	{146}	Cts/S	420.87	5.7647	1.3697	424.95	416.80
In2306	230.606	{446}	Cts/S	14862.	129.66	.87244	14770.	14953.
Y_2243	224.306	{450}	Cts/S	19475.	156.30	.80257	19364.	19585.
Y_3600	360.073	{94}	Cts/S	155480.	1071.2	.68897	156230.	154720.
Y_3710	371.030	{91}	Cts/S	19454.	86.088	.44251	19515.	19393.

## [Sample Header]

Method=ICP6500Metals\_TRY3(v757)

SampleName=CalibStd-2

Username=admin

Comment=

Custom ID1=

Custom ID2=

Custom ID3=

Run Time=3/23/2012 8:56:17

Sample Type=Ca1

Mode=IR

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A032312

CorrFactor=1.000  
Repeats=2

## [Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag	3280			328.068	{103}	Y_3600	Cts/S	.0159, .0000, .2799, .0159, .0160
Al	3082			308.215	{109}	In2306	Cts/S	.6978, .0058, .8269, .7019, .6937
As	1890			189.042	{478}	Y_2243	Cts/S	.0105, .0001, 1.343, .0106, .0104
B	2496			249.678	{135}	Y_3710	Cts/S	.0060, .0000, .7018, .0060, .0060
Ba	4554			455.403	{74}	Y_3710	Cts/S	.5074, .0007, .1324, .5078, .5069
Be	3130			313.042	{108}	Y_3710	Cts/S	.2510, .0004, .1583, .2507, .2513
Ca	3158			315.887	{107}	In2306	Cts/S	2.449, .0018, .0738, 2.450, 2.448
Ca	3181			318.128	{106}	In2306	Cts/S	.5335, .0074, 1.396, .5388, .5282
Cd	2288			228.802	{447}	Y_2243	Cts/S	.1092, .0008, .7676, .1098, .1086
Co	2286			228.616	{447}	In2306	Cts/S	.1811, .0016, .9016, .1822, .1799
Cr	2677			267.716	{126}	Y_3600	Cts/S	.0260, .0000, .1185, .0260, .0259
Cu	3247			324.754	{104}	Y_3600	Cts/S	.0571, .0000, .0100, .0571, .0571
Fe	2404			240.488	{140}	In2306	Cts/S	2.394, .0253, 1.056, 2.412, 2.376
K	7664			766.490	{44}	Y_3710	Cts/S	.0740, .0004, .5010, .0737, .0742
K	7698			769.896	{44}	Y_3710	Cts/S	.0371, .0007, 1.826, .0367, .0376
Li	6707			670.784	{50}	Y_3710	Cts/S	.1656, .0015, .9194, .1667, .1645
Mg	2790			279.079	{121}	Y_3710	Cts/S	.0136, .0001, .6000, .0136, .0137
Mn	2576			257.610	{131}	Y_3600	Cts/S	.1614, .0004, .2404, .1611, .1617
Mn	2576-2			257.610	{131}2	Y_3710	Cts/S	.0599, .0001, .1090, .0599, .0599
Mo	2020			202.030	{467}	Y_2243	Cts/S	.0584, .0006, .9498, .0588, .0580
Na	5895			589.592	{57}	Y_3710	Cts/S	.2155, .0006, .2793, .2159, .2150
Na	8183			818.326	{41}	Y_3710	Cts/S	.0085, .0000, .1914, .0085, .0085
Ni	2316			231.604	{445}	In2306	Cts/S	.0965, .0005, .5471, .0968, .0961
P	1782			178.284	{489}	In2306	Cts/S	.0100, .0001, .9989, .0101, .0100
Pb	2203			220.353	{453}	In2306	Cts/S	.0310, .0000, .1055, .0310, .0310
S	1820			182.034	{485}	Y_2243	Cts/S	-.0008, .0000, 5.103, -.0008, -.0008
Sb	2068			206.833	{463}	Y_2243	Cts/S	.0094, .0001, .9406, .0095, .0094
Se	1960			196.090	{472}	Y_2243	Cts/S	.0067, .0000, .5190, .0067, .0067
Si	2516			251.611	{134}	Y_3710	Cts/S	.0045, .0000, .5655, .0045, .0045
Sn	1899			189.989	{477}	In2306	Cts/S	.0384, .0004, 1.126, .0387, .0381
Sr	4215			421.552	{80}	Y_3710	Cts/S	.3410, .0008, .2480, .3416, .3404
Ti	3349			334.904	{101}	Y_3600	Cts/S	.0446, .0002, .3443, .0447, .0445
Tl	1908			190.856	{477}	In2306	Cts/S	.0122, .0004, 3.148, .0125, .0119
V	2924			292.402	{115}	Y_3600	Cts/S	.0400, .0001, .1633, .0400, .0401
Zn	2062			206.200	{463}	In2306	Cts/S	.2150, .0019, .8640, .2163, .2137

## [Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2
In2306	230.606	{146}	Cts/S	421.23	.45018	.10687	420.91, 421.54
In2306	230.606	{446}	Cts/S	14739.	66.931	.45410	14692., 14786.
Y_2243	224.306	{450}	Cts/S	19495.	59.992	.30773	19453., 19537.
Y_3600	360.073	{94}	Cts/S	154460.	746.40	.48324	154990., 153930.
Y_3710	371.030	{91}	Cts/S	19202.	55.545	.28926	19241., 19163.

## [Sample Header]

Method=ICP6500Metals\_TRY3(v757)  
SampleName=CalibStd-3  
Username=admin  
Comment=  
Custom ID1=  
Custom ID2=  
Custom ID3=  
Run Time=3/23/2012 8:58:45  
Sample Type=Cal  
Mode=IR  
CorrFactor=1.000  
Repeats=2



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## A032312

## [Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag	3280	328.068	{103},Y_3600,Cts/S	.0312	.0002	.7389	.0311	.0314
Al	3082	308.215	{109},In2306,Cts/S	1.389	.0070	.5040	1.384	1.394
As	1890	189.042	{478},Y_2243,Cts/S	.0214	.0004	1.786	.0212	.0217
B	2496	249.678	{135},Y_3710,Cts/S	.0122	.0000	.1408	.0122	.0122
Ba	4554	455.403	{74},Y_3710,Cts/S	1.017	.0063	.6183	1.013	1.021
Be	3130	313.042	{108},Y_3710,Cts/S	.5046	.0012	.2304	.5037	.5054
Ca	3158	315.887	{107},In2306,Cts/S	4.955	.0252	.5087	4.937	4.973
Ca	3181	318.128	{106},In2306,Cts/S	1.103	.0016	.1483	1.104	1.101
Cd	2288	228.802	{447},Y_2243,Cts/S	.2204	.0049	2.224	.2169	.2239
Co	2286	228.616	{447},In2306,Cts/S	.3702	.0088	2.369	.3640	.3764
Cr	2677	267.716	{126},Y_3600,Cts/S	.0512	.0003	.6283	.0510	.0515
Cu	3247	324.754	{104},Y_3600,Cts/S	.1079	.0005	.4464	.1076	.1082
Fe	2404	240.488	{140},In2306,Cts/S	4.868	.0021	.0427	4.866	4.869
K	7664	766.490	{44},Y_3710,Cts/S	.1462	.0000	.0091	.1462	.1462
K	7698	769.896	{44},Y_3710,Cts/S	.0679	.0006	.8864	.0675	.0683
Li	6707	670.784	{50},Y_3710,Cts/S	.3268	.0022	.6681	.3253	.3283
Mg	2790	279.079	{121},Y_3710,Cts/S	.0277	.0001	.2301	.0277	.0276
Mn	2576	257.610	{131},Y_3600,Cts/S	.3179	.0025	.7762	.3161	.3196
Mn	2576-2	257.610	{131}2,Y_3710,Cts/S	.1201	.0003	.2800	.1199	.1203
Mo	2020	202.030	{467},Y_2243,Cts/S	.1182	.0023	1.979	.1165	.1198
Na	5895	589.592	{57},Y_3710,Cts/S	.4281	.0030	.6939	.4260	.4302
Na	8183	818.326	{41},Y_3710,Cts/S	.0177	.0008	4.540	.0171	.0183
Ni	2316	231.604	{445},In2306,Cts/S	.1966	.0042	2.126	.1937	.1996
P	1782	178.284	{489},In2306,Cts/S	.0205	.0004	1.983	.0202	.0208
Pb	2203	220.353	{453},In2306,Cts/S	.0628	.0016	2.485	.0617	.0639
S	1820	182.034	{485},Y_2243,Cts/S	-.0008	.0000	.8154	-.0008	-.0008
Sb	2068	206.833	{463},Y_2243,Cts/S	.0193	.0004	1.830	.0190	.0195
Se	1960	196.090	{472},Y_2243,Cts/S	.0135	.0003	2.518	.0133	.0138
Si	2516	251.611	{134},Y_3710,Cts/S	.0087	.0001	.8608	.0087	.0088
Sn	1899	189.989	{477},In2306,Cts/S	.0789	.0016	2.014	.0777	.0800
Sr	4215	421.552	{80},Y_3710,Cts/S	.6843	.0036	.5224	.6818	.6868
Ti	3349	334.904	{101},Y_3600,Cts/S	.0883	.0004	.4694	.0880	.0886
Tl	1908	190.856	{477},In2306,Cts/S	.0254	.0003	1.340	.0251	.0256
V	2924	292.402	{115},Y_3600,Cts/S	.0792	.0004	.5644	.0789	.0795
Zn	2062	206.200	{463},In2306,Cts/S	.4415	.0100	2.259	.4345	.4486

## [Internal Standards]

Elem	WL	Units	Avg	Stddev	RSD	Rep1	Rep2	
In	2306	230.606	{146},Cts/S	416.20	2.9758	.71500	414.10	418.31
In	2306	230.606	{446},Cts/S	14414.	308.40	2.1396	14632.	14196.
Y	2243	224.306	{450},Cts/S	19406.	403.67	2.0801	19691.	19121.
Y	3600	360.073	{94},Cts/S	156220.	889.38	.56930	156850.	155600.
Y	3710	371.030	{91},Cts/S	19135.	152.50	.79696	19027.	19243.

## [Sample Header]

Method=ICP6500Metals\_TRY3(v757)  
 SampleName=CalibStd-4  
 Username=admin  
 Comment=  
 Custom ID1=  
 Custom ID2=  
 Custom ID3=  
 Run Time=3/23/2012 9:01:09  
 Sample Type=Ca  
 Mode=IR  
 CorrFactor=1.000  
 Repeats=2

## [Results]

Elem	WL	ISRef	Units	Avg	Stddev	RSD	Rep1	Rep2
Ag	3280	328.068	{103},Y_3600,Cts/S	.0631	.0004	.7035	.0634	.0628

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## A032312

Al3082	,308.215	{109},In2306,Cts/S,	2.750,	.0059,	.2156,	2.746,	2.754
As1890	,189.042	{478},Y_2243,Cts/S,	.0425,	.0005,	1.204,	.0421,	.0428
B_2496	,249.678	{135},Y_3710,Cts/S,	.0244,	.0001,	.3807,	.0244,	.0243
Ba4554	,455.403	{ 74},Y_3710,Cts/S,	2.036,	.0009,	.0438,	2.035,	2.037
Be3130	,313.042	{108},Y_3710,Cts/S,	1.010,	.0040,	.3997,	1.007,	1.013
Ca3158	,315.887	{107},In2306,Cts/S,	9.885,	.0195,	.1969,	9.899,	9.872
Ca3181	,318.128	{106},In2306,Cts/S,	2.181,	.0218,	1.001,	2.197,	2.166
Cd2288	,228.802	{447},Y_2243,Cts/S,	.4363,	.0023,	.5317,	.4347,	.4380
Co2286	,228.616	{447},In2306,Cts/S,	.7427,	.0031,	.4109,	.7405,	.7449
Cr2677	,267.716	{126},Y_3600,Cts/S,	.1043,	.0004,	.3631,	.1046,	.1041
Cu3247	,324.754	{104},Y_3600,Cts/S,	.2144,	.0004,	.1640,	.2147,	.2142
Fe2404	,240.488	{140},In2306,Cts/S,	9.601,	.0481,	.5008,	9.635,	9.567
K_7664	,766.490	{ 44},Y_3710,Cts/S,	.2920,	.0012,	.4030,	.2912,	.2929
K_7698	,769.896	{ 44},Y_3710,Cts/S,	.1315,	.0003,	.2613,	.1312,	.1317
Li6707	,670.784	{ 50},Y_3710,Cts/S,	.6499,	.0014,	.2131,	.6489,	.6509
Mg2790	,279.079	{121},Y_3710,Cts/S,	.0548,	.0004,	.6788,	.0545,	.0550
Mn2576	,257.610	{131},Y_3600,Cts/S,	.6467,	.0031,	.4774,	.6489,	.6445
Mn2576-2	,257.610	{131}2,Y_3710,Cts/S,	.2366,	.0017,	.7296,	.2378,	.2354
Mo2020	,202.030	{467},Y_2243,Cts/S,	.2314,	.0010,	.4414,	.2306,	.2321
Na5895	,589.592	{ 57},Y_3710,Cts/S,	.8525,	.0053,	.6202,	.8487,	.8562
Na8183	,818.326	{ 41},Y_3710,Cts/S,	.0383,	.0007,	1.870,	.0378,	.0388
Ni2316	,231.604	{445},In2306,Cts/S,	.3938,	.0018,	.4549,	.3925,	.3950
P_1782	,178.284	{489},In2306,Cts/S,	.0419,	.0001,	.1617,	.0418,	.0419
Pb2203	,220.353	{453},In2306,Cts/S,	.1251,	.0006,	.4451,	.1247,	.1255
S_1820	,182.034	{485},Y_2243,Cts/S,	-.0009,	.0000,	2.057,	-.0008,	-.0009
Sb2068	,206.833	{463},Y_2243,Cts/S,	.0383,	.0000,	.0516,	.0383,	.0382
Se1960	,196.090	{472},Y_2243,Cts/S,	.0268,	.0000,	.0208,	.0268,	.0268
Si2516	,251.611	{134},Y_3710,Cts/S,	.0171,	.0005,	2.667,	.0168,	.0175
Sn1899	,189.989	{477},In2306,Cts/S,	.1579,	.0006,	.3960,	.1574,	.1583
Sr4215	,421.552	{ 80},Y_3710,Cts/S,	1.360,	.0031,	.2272,	1.357,	1.362
Ti3349	,334.904	{101},Y_3600,Cts/S,	.1813,	.0009,	.5038,	.1819,	.1806
Tl1908	,190.856	{477},In2306,Cts/S,	.0508,	.0002,	.3174,	.0509,	.0507
V_2924	,292.402	{115},Y_3600,Cts/S,	.1630,	.0003,	.1907,	.1632,	.1628
Zn2062	,206.200	{463},In2306,Cts/S,	.8906,	.0030,	.3325,	.8885,	.8927

## [Internal Standards]

Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 424.58,2.6160, .61613,422.73,426.43
In2306,230.606 {446},Cts/S, 14137.,59.595, .42156,14179.,14095.
Y_2243,224.306 {450},Cts/S, 19454.,85.491, .43944,19515.,19394.
Y_3600,360.073 { 94},Cts/S, 151390.,587.82, .38828,150980.,151810.
Y_3710,371.030 { 91},Cts/S, 19414.,49.352, .25421,19449.,19379.

## [Sample Header]

Method=ICP6500Metals\_TRY3(v757)  
 SampleName=CalibStd-5  
 Username=admin  
 Comment=  
 Custom ID1=  
 Custom ID2=  
 Custom ID3=  
 Run Time=3/23/2012 9:03:31  
 Sample Type=Cal  
 Mode=IR  
 CorrFactor=1.000  
 Repeats=2

## [Results]

Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2
Ag3280,328.068 {103},Y_3600,Cts/S, .1312,.0103,7.849, .1239, .1385
Al3082,308.215 {109},In2306,Cts/S, 5.689,.4219,7.416, 5.390, 5.987
As1890,189.042 {478},Y_2243,Cts/S, .0854,.0000,.0481, .0854, .0855
B_2496,249.678 {135},Y_3710,Cts/S, .0507,.0034,6.622, .0483, .0531

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## A032312

Ba4554,455.403	{ 74},Y_3710,Cts/S,	4.221,.2733,6.475,	4.027,	4.414
Be3130,313.042	{108},Y_3710,Cts/S,	2.097,.1310,6.247,	2.005,	2.190
Ca3158,315.887	{107},In2306,Cts/S,	20.69,1.435,6.933,	19.68,	21.71
Ca3181,318.128	{106},In2306,Cts/S,	4.544,.3348,7.368,	4.307,	4.781
Cd2288,228.802	{447},Y_2243,Cts/S,	.8696,.0015,.1688,	.8707,	.8686
Co2286,228.616	{447},In2306,Cts/S,	1.489,.0069,.4658,	1.494,	1.484
Cr2677,267.716	{126},Y_3600,Cts/S,	.2156,.0174,8.063,	.2033,	.2279
Cu3247,324.754	{104},Y_3600,Cts/S,	.4417,.0345,7.801,	.4173,	.4660
Fe2404,240.488	{140},In2306,Cts/S,	19.91,1.457,7.317,	18.88,	20.94
K_7664,766.490	{ 44},Y_3710,Cts/S,	.6018,.0307,5.105,	.5800,	.6235
K_7698,769.896	{ 44},Y_3710,Cts/S,	.2647,.0139,5.266,	.2549,	.2746
Li6707,670.784	{ 50},Y_3710,Cts/S,	1.339,.0795,5.938,	1.282,	1.395
Mg2790,279.079	{121},Y_3710,Cts/S,	.1137,.0069,6.102,	.1088,	.1186
Mn2576,257.610	{131},Y_3600,Cts/S,	1.330,.1067,8.026,	1.254,	1.405
Mn2576-2,257.610	{131}2,Y_3710,Cts/S,	.4915,.0317,6.450,	.4690,	.5139
Mo2020,202.030	{467},Y_2243,Cts/S,	.4608,.0010,.2091,	.4615,	.4601
Na5895,589.592	{ 57},Y_3710,Cts/S,	1.762,.0992,5.632,	1.692,	1.832
Na8183,818.326	{ 41},Y_3710,Cts/S,	.0790,.0041,5.190,	.0761,	.0819
Ni2316,231.604	{445},In2306,Cts/S,	.7909,.0029,.3687,	.7929,	.7888
P_1782,178.284	{489},In2306,Cts/S,	.0855,.0007,.8283,	.0860,	.0850
Pb2203,220.353	{453},In2306,Cts/S,	.2513,.0004,.1779,	.2517,	.2510
Sb2068,206.833	{463},Y_2243,Cts/S,	.0766,.0000,.0082,	.0766,	.0766
Se1960,196.090	{472},Y_2243,Cts/S,	.0540,.0001,.1149,	.0540,	.0539
Si2516,251.611	{134},Y_3710,Cts/S,	.0363,.0034,9.235,	.0340,	.0387
Sn1899,189.989	{477},In2306,Cts/S,	.3169,.0017,.5440,	.3181,	.3157
Sr4215,421.552	{ 80},Y_3710,Cts/S,	2.820,.1845,6.545,	2.689,	2.950
Ti3349,334.904	{101},Y_3600,Cts/S,	.3767,.0312,8.286,	.3546,	.3988
Tl1908,190.856	{477},In2306,Cts/S,	.1009,.0008,.8181,	.1014,	.1003
V_2924,292.402	{115},Y_3600,Cts/S,	.3405,.0276,8.094,	.3210,	.3600
Zn2062,206.200	{463},In2306,Cts/S,	1.800,.0079,.4363,	1.806,	1.795

## [Internal Standards]

Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2	
In2306,230.606 {146},Cts/S,	405.92,22.515,5.5467,421.84,390.00
In2306,230.606 {446},Cts/S,	13672.,34.460,.25205,13648.,13696.
Y_2243,224.306 {450},Cts/S,	19207.,6.3656,.03314,19202.,19211.
Y_3600,360.073 { 94},Cts/S,	145380.,9526.7,6.5530,152110.,138640.
Y_3710,371.030 { 91},Cts/S,	18579.,815.63,4.3902,19155.,18002.

## [Sample Header]

Method=ICP6500Metals\_TRY3(v757)  
SampleName=ICV 824571  
Username=admin  
Comment=  
Custom ID1=  
Custom ID2=  
Custom ID3=  
Run Time=3/23/2012 9:05:55  
Sample Type=Unk  
Mode=CONC  
CorrFactor=1.000  
Repeats=2

## [Results]

Elem,WL,ISRef,Units,Avg,Stddev,RSD,Rep1,Rep2	
Ag3280,328.068 {103},Y_3600,ppm,	.2386,.0035,1.459, .2361, .2411
Al3082,308.215 {109},In2306,ppm,	2.346,.0197,.8391, 2.360, 2.332
As1890,189.042 {478},Y_2243,ppm,	.4858,.0002,.0365, .4857, .4859
B_2496,249.678 {135},Y_3710,ppm,	.4726,.0083,1.759, .4667, .4784
Ba4554,455.403 { 74},Y_3710,ppm,	.4671,.0023,.5003, .4655, .4688
Be3130,313.042 {108},Y_3710,ppm,	.4757,.0024,.5116, .4740, .4774
Ca3158,315.887 {107},In2306,ppm,	11.90,.0615,.5164, 11.94, 11.86
Ca3181,318.128 {106},In2306,ppm,	11.95,.0372,.3111, 11.92, 11.97

A032312

Cd2288,228.802	{447},Y_2243,ppm,	.4826,.0003,.0641,	.4824,	.4828
Co2286,228.616	{447},In2306,ppm,	.4836,.0077,1.599,	.4782,	.4891
Cr2677,267.716	{126},Y_3600,ppm,	.4666,.0024,.5226,	.4648,	.4683
Cu3247,324.754	{104},Y_3600,ppm,	.4660,.0016,.3429,	.4671,	.4649
Fe2404,240.488	{140},In2306,ppm,	2.397,.0153,.6372,	2.408,	2.386
K_7664,766.490	{44},Y_3710,ppm,	11.82,.0440,.3726,	11.79,	11.85
K_7698,769.896	{44},Y_3710,ppm,	11.89,.0694,.5838,	11.84,	11.94
Li6707,670.784	{50},Y_3710,ppm,	.4730,.0017,.3686,	.4718,	.4743
Mg2790,279.079	{121},Y_3710,ppm,	4.746,.0206,.4334,	4.732,	4.761
Mn2576,257.610	{131},Y_3600,ppm,	.4664,.0053,1.127,	.4627,	.4701
Mn2576-2,257.610	{131}2,Y_3710,ppm,	.4694,.0023,.4850,	.4678,	.4710
Mo2020,202.030	{467},Y_2243,ppm,	.5013,.0042,.8369,	.4984,	.5043
Na5895,589.592	{57},Y_3710,ppm,	11.80,.0631,.5349,	11.75,	11.84
Na8183,818.326	{41},Y_3710,ppm,	11.83,.1188,1.005,	11.74,	11.91
Ni2316,231.604	{445},In2306,ppm,	.4823,.0076,1.581,	.4769,	.4877
P_1782,178.284	{489},In2306,ppm,	.0021,.0061,292.6,	-.0022,	.0064
Pb2203,220.353	{453},In2306,ppm,	.4799,.0055,1.139,	.4760,	.4837
S_1820,182.034	{485},Y_2243,ppm,	-123.4,.0978,.0792,	-123.5,	-123.4
Sb2068,206.833	{463},Y_2243,ppm,	.4923,.0031,.6265,	.4901,	.4945
Se1960,196.090	{472},Y_2243,ppm,	.4955,.0051,1.031,	.4919,	.4991
Si2516,251.611	{134},Y_3710,ppm,	.8628,.0017,.1984,	.8616,	.8641
Sn1899,189.989	{477},In2306,ppm,	.4949,.0074,1.495,	.4897,	.5002
Sr4215,421.552	{80},Y_3710,ppm,	.2407,.0015,.6122,	.2396,	.2417
Ti3349,334.904	{101},Y_3600,ppm,	.4740,.0026,.5412,	.4722,	.4758
Tl1908,190.856	{477},In2306,ppm,	.4947,.0073,1.469,	.4896,	.4998
V_2924,292.402	{115},Y_3600,ppm,	.4679,.0007,.1547,	.4674,	.4684
Zn2062,206.200	{463},In2306,ppm,	.4786,.0087,1.816,	.4724,	.4847

## [Internal Standards]

Elem,WL,Units,Avg,Stddev,RSD,Rep1,Rep2
In2306,230.606 {146},Cts/S, 421.29,2.7403,.65047,419.35,423.23
In2306,230.606 {446},Cts/S, 14309.,102.83,.71862,14382.,14236.
Y_2243,224.306 {450},Cts/S, 19322.,62.919,.32564,19366.,19277.
Y_3600,360.073 {94},Cts/S, 152980.,982.98,.64256,153670.,152280.
Y_3710,371.030 {91},Cts/S, 19381.,89.646,.46255,19444.,19317.

file:///c:/tjadata/temp/a032812.TXT

Method: 20076010 03/28/12 09:40:29 AM page 1

## METHOD INFORMATION \*\*

Sample Introduction Device: Normal  
 Calibration Mode: Concentration

## Default Setup:

Number of Repeats : 2	Auto-store Analysis Data? Yes
Flush Time (sec) : 45.0	Auto-store Stdzn Data? Yes
Auto-Increment Sample Names? No	Store Individual Repeats? No
	Auto-print Analysis Data? Yes
	Auto-print Stdzn Report : +Readback
	Condensed Print Format? Yes

## Default File Names:

Analysis Data File : A032812	Autosampler Table : TRAVIS
	Sample Limits Table : LCTAB
Calibration Data File : CALDATA	Blank Limits Table : BLCTAB
Calibration Stds Table : CALSTDS	QC Check Table : LCTAB

Standardization Rpt. 03/28/12 09:51:39 AM page 1

Method: 20076010 Standard: S0  
 Run Time: 03/28/12 09:48:15

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Avgc	.00602	.00139	-.00206	-.00010	-.02190	.03230	.00242
SDev	.00010	.00053	.00037	.00048	.00006	.00251	.00001
%RSD	1.7192	37.847	18.010	498.33	.25140	7.7779	.29645
#1	.00610	.00102	-.00180	.00024	-.02186	.03407	.00243
#2	.00595	.00177	-.00232	-.00044	-.02193	.03052	.00242
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Mg2790
Avgc	.00545	-.00025	-.00028	.00385	.00158	.06838	.03600
SDev	.00002	.00022	.00015	.00015	.00240	.00036	.00016
%RSD	.29645	87.363	55.088	3.8540	152.25	.52200	.43925
#1	.00546	-.00010	-.00017	.00396	.00328	.06863	.03611
#2	.00544	-.00041	-.00039	.00375	-.00012	.06812	.03589
Elem	Mn2576	Mo2020	Ni2316	K_7664	Si2881	Ag3280	Na3302
Avgc	-.00001	-.00055	-.00079	.43276	.03278	-.00024	-.00167
SDev	.00002	.00040	.00177	.00219	.00080	.00010	.00051
%RSD	141.42	72.501	223.65	.50632	2.4399	42.156	30.461
#1	.00000	-.00083	-.00204	.43431	.03334	-.00017	-.00131
#2	-.00002	-.00027	.00046	.43121	.03221	-.00031	-.00203
Elem	Na5889	Sr4215	Tl1908	Sn1899	Ti3349	V_2924	Zn2138
Avgc	.21779	-.00741	-.00171	.00095	-.00338	-.00008	.00114
SDev	.00001	.00114	.00057	.00024	.00086	.00009	.00000
%RSD	.00254	15.421	33.379	25.670	25.565	100.87	.29645
#1	.21779	-.00661	-.00211	.00112	-.00277	-.00002	.00114
#2	.21779	-.00822	-.00131	.00077	-.00399	-.00015	.00114
Elem	2203/1	2203/2	1960/1	1960/2			
Avgc	.00643	-.00429	-.00268	.00109			



file:///c:/tjadata/temp/a032812.TXT

SDev	.00168	.00631	.00025	.00030
%RSD	26.080	147.02	9.3036	28.000
#1	.00525	.00017	-.00250	.00087
#2	.00762	-.00875	-.00285	.00131

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	41264	--	--	--	--	--	--
SDev	122.3295	--	--	--	--	--	--
%RSD	.2964521	--	--	--	--	--	--
#1	41178	--	--	--	--	--	--
#2	41351	--	--	--	--	--	--

03/28/12 09:56:08 AM

page 2

Method: 20076010      Standard: STD  
Run Time: 03/28/12 09:52:46

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Avge	.87022	.97515	1.1145	12.561	22.344	6.6899	13.861
SDev	.00241	.00275	.0035	.012	.046	.0045	.045
%RSD	.27698	.28194	.31749	.09558	.20675	.06691	.32370

#1	.87193	.97710	1.1170	12.569	22.377	6.6931	13.893
#2	.86852	.97321	1.1120	12.552	22.311	6.6867	13.829

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Mg2790
Avge	2.8993	2.2072	1.2992	1.2924	4.9130	18.147	1.2557
SDev	.0091	.0053	.0032	.0011	.0112	.032	.0052
%RSD	.31321	.24110	.24302	.08671	.22847	.17575	.41506

#1	2.9057	2.2109	1.3014	1.2932	4.9210	18.169	1.2594
#2	2.8928	2.2034	1.2970	1.2916	4.9051	18.124	1.2520

Elem	Mn2576	Mo2020	Ni2316	K_7664	Si2881	Ag3280	Na3302
Avge	1.8544	1.6596	5.5355	2.5205	.86941	.74730	.12338
SDev	.0045	.0032	.0140	.0066	.00429	.00217	.00126
%RSD	.24257	.19559	.25376	.26293	.49295	.29053	1.0189

#1	1.8576	1.6619	5.5454	2.5252	.87244	.74883	.12426
#2	1.8513	1.6573	5.5255	2.5158	.86638	.74576	.12249

Elem	Na5889	Sr4215	Tl1908	Sn1899	Ti3349	V_2924	Zn2138
Avge	14.871	41.322	.33108	2.7424	11.272	.55415	3.2205
SDev	.030	.048	.00057	.0106	.015	.00130	.0085
%RSD	.20484	.11597	.17137	.38834	.13564	.23517	.26280

#1	14.893	41.356	.33148	2.7499	11.283	.55508	3.2265
#2	14.850	41.288	.33068	2.7349	11.261	.55323	3.2145

Elem	2203/1	2203/2	1960/1	1960/2
Avge	3.8931	8.0539	1.1300	1.0364
SDev	.0066	.0253	.0030	.0052
%RSD	.17037	.31374	.26856	.49950

#1	3.8978	8.0717	1.1322	1.0401
#2	3.8884	8.0360	1.1279	1.0327

file:///c:/tjadata/temp/a032812.TXT



IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	41042	--	--	--	--	--	--
SDev	125.8650	--	--	--	--	--	--
%RSD	.3066737	--	--	--	--	--	--
#1	40953	--	--	--	--	--	--
#2	41131	--	--	--	--	--	--

03/28/12 09:56:29 AM page 3

Method: 20076010 Slope = Conc(SIR)/IR

Element	Wavlen	High std	Low std	Slope	Y-intercept	Date Standardized
Al3082	308.215	STD	S0	23.1428	-.139372	03/28/12 09:52:46
Sb2068	206.838	STD	S0	2.06073	-.002870	03/28/12 09:52:46
As1890	189.042	STD	S0	1.77388	.003653	03/28/12 09:52:46
Ba4934	493.409	STD	S0	.159224	.000015	03/28/12 09:52:46
Be3130	313.042	STD	S0	.044740	.000980	03/28/12 09:52:46
B_2496	249.678	STD	S0	.300408	-.009702	03/28/12 09:52:46
Cd2265	226.502	STD	S0	.072300	-.000175	03/28/12 09:52:46
Ca3179	317.933	STD	S0	6.91133	-.037685	03/28/12 09:52:46
Cr2677	267.716	STD	S0	.906037	.000230	03/28/12 09:52:46
Co2286	228.616	STD	S0	1.53907	.000429	03/28/12 09:52:46
Cu3247	324.753	STD	S0	1.55132	-.005978	03/28/12 09:52:46
Fe2714	271.441	STD	S0	3.90352	-.006163	03/28/12 09:52:46
Li6707	670.784	STD	S0	.110630	-.007565	03/28/12 09:52:46
Pb2203	220.353		NONE	.000000	.000000	*03/28/12 09:52:46
Se1960	196.026		NONE	.000000	.000000	*03/28/12 09:52:46
Mg2790	279.078	STD	S0	16.3970	-.590288	03/28/12 09:52:46
Mn2576	257.610	STD	S0	1.07869	.000013	03/28/12 09:52:46
Mo2020	202.030	STD	S0	1.20472	.000658	03/28/12 09:52:46
Ni2316	231.604	STD	S0	.361255	.000285	03/28/12 09:52:46
K_7664	766.491	STD	S0	9.57962	-4.14568	03/28/12 09:52:46
Si2881	288.158	STD	S0	2.36854	-.077635	03/28/12 09:52:46
Ag3280	328.068	STD	S0	1.33809	.000324	03/28/12 09:52:46
Na3302	330.232	STD	S0	159.940	.267321	03/28/12 09:52:46
Na5889	588.995	STD	S0	1.36488	-.297257	03/28/12 09:52:46
Sr4215	421.552	STD	S0	.024207	.000179	03/28/12 09:52:46
Tl1908	190.864	STD	S0	6.02923	.010306	03/28/12 09:52:46
Sn1899	189.989	STD	S0	.729539	-.000690	03/28/12 09:52:46
Ti3349	334.941	STD	S0	.177373	.000599	03/28/12 09:52:46
V_2924	292.402	STD	S0	3.57398	.000303	03/28/12 09:52:46
Zn2138	213.856	STD	S0	.622004	-.000708	03/28/12 09:52:46
2203/1	220.351	STD	S0	.517580	-.003329	03/28/12 09:52:46
2203/2	220.352	STD	S0	.247266	.001061	03/28/12 09:52:46
1960/1	196.021	STD	S0	1.76789	.004733	03/28/12 09:52:46
1960/2	196.022	STD	S0	1.92775	-.002101	03/28/12 09:52:46

Method: 20076010

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al3082	308.215	S0	.000000	.000000	-.000000
		STD	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
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file:///c:/tjadata/temp/a032812.TXT

Sb2068	206.838	S0	.000000	.000000	-.000000
		STD	2.00000	2.00666	-.006658
			Known	Measured	Residual
Element	Wavelength	Standard	Concentration	Concentration	Concentration
As1890	189.042	S0	.000000	.000000	-.000000
		STD	2.00000	1.98066	.019338
			Known	Measured	Residual
Element	Wavelength	Standard	Concentration	Concentration	Concentration
Ba4934	493.409	S0	.000000	.000000	-.000000
Standardization Readback Report 03/28/12 09:56:29 AM page 4					
		STD	2.00000	2.00000	.000000
			Known	Measured	Residual
Element	Wavelength	Standard	Concentration	Concentration	Concentration
Be3130	313.042	S0	.000000	.000000	-.000000
		STD	1.00000	1.00064	-.000640
			Known	Measured	Residual
Element	Wavelength	Standard	Concentration	Concentration	Concentration
B_2496	249.678	S0	.000000	.000000	-.000000
		STD	2.00000	2.00000	.000000
			Known	Measured	Residual
Element	Wavelength	Standard	Concentration	Concentration	Concentration
Cd2265	226.502	S0	.000000	-.000000	.000000
		STD	1.00000	1.00198	-.001980
			Known	Measured	Residual
Element	Wavelength	Standard	Concentration	Concentration	Concentration
Ca3179	317.933	S0	.000000	-.000000	.000000
		STD	20.0000	20.0000	.000000
			Known	Measured	Residual
Element	Wavelength	Standard	Concentration	Concentration	Concentration
Cr2677	267.716	S0	.000000	-.000000	.000000
		STD	2.00000	2.00000	.000000
			Known	Measured	Residual
Element	Wavelength	Standard	Concentration	Concentration	Concentration
Co2286	228.616	S0	.000000	.000000	-.000000
		STD	2.00000	2.00000	.000000
			Known	Measured	Residual
Element	Wavelength	Standard	Concentration	Concentration	Concentration
Cu3247	324.753	S0	.000000	.000000	-.000000
		STD	2.00000	1.99894	.001060
			Known	Measured	Residual
Element	Wavelength	Standard	Concentration	Concentration	Concentration
Fe2714	271.441	S0	.000000	.000000	-.000000
		STD	20.0000	19.1720	.828014
			Known	Measured	Residual
Element	Wavelength	Standard	Concentration	Concentration	Concentration
Li6707	670.784	S0	.000000	-.000000	.000000
		STD	2.00000	2.00000	.000000

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file:///c:/tjadata/temp/a032812.TXT

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb2203	220.353	NONE	.000000	.000000	.000000
			.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se1960	196.026	NONE	.000000	.000000	.000000
			.000000	.000000	.000000

Standardization      Readback Report      03/28/12 09:56:29 AM      page 5

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg2790	279.078	S0	.000000	-.000000	.000000
		STD	20.0000	20.0000	-.000002

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn2576	257.610	S0	.000000	-.000000	.000000
		STD	2.00000	2.00038	-.000380

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo2020	202.030	S0	.000000	-.000000	.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni2316	231.604	S0	.000000	-.000000	.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K_7664	766.491	S0	.000000	-.000000	.000000
		STD	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si2881	288.158	S0	.000000	.000000	-.000000
		STD	2.00000	1.98159	.018410

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag3280	328.068	S0	.000000	-.000000	.000000
		STD	1.00000	1.00027	-.000274

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na3302	330.232	S0	.000000	.000000	-.000000
		STD	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na5889	588.995	S0	.000000	-.000000	.000000
		STD	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr4215	421.552	S0	.000000	-.000000	.000000

file:///c:/tjadata/temp/a032812.TXT

STD	1.00000	1.00048	- .000480
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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl1908	190.864	S0	.000000	-.000000	.000000
		STD	2.00000	2.00644	-.006442

Standardization Readback Report 03/28/12 09:56:29 AM page 6

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn1899	189.989	S0	.000000	-.000000	.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti3349	334.941	S0	.000000	-.000000	.000000
		STD	2.00000	2.00000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V_2924	292.402	S0	.000000	.000000	-.000000
		STD	2.00000	1.98084	.019164

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn2138	213.856	S0	.000000	-.000000	.000000
		STD	2.00000	2.00245	-.002452

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/1	220.351	S0	.000000	.000000	-.000000
		STD	2.00000	2.01167	-.011672

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/2	220.352	S0	.000000	.000000	-.000000
		STD	2.00000	1.99251	.007490

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/1	196.021	S0	.000000	.000000	-.000000
		STD	2.00000	2.00251	-.002508

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/2	196.022	S0	.000000	-.000000	.000000
		STD	2.00000	1.99584	.004162

Analysis Report 03/28/12 10:01:14 AM page 1

Method: 20076010 Sample Name: S2 met0312cal\_00001 Operator: DCL

Run Time: 03/28/12 09:57:26

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.218	2.0298	2.0225	2.0298	1.0146	2.0270	1.0149

file:///c:/tjadata/temp/a032812.TXT

SDev	.038	.0113	.0051	.0053	.0034	.0038	.0031
%RSD	.18817	.55566	.25240	.26121	.33405	.18811	.30458
#1	20.245	2.0378	2.0261	2.0335	1.0170	2.0297	1.0170
#2	20.191	2.0218	2.0189	2.0260	1.0122	2.0243	1.0127
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.253	2.0260	2.0220	2.0194	20.261	2.0238	2.0271
SDev	.059	.0059	.0065	.0055	.065	.0037	.0045
%RSD	.29162	.29345	.32179	.27468	.32056	.18484	.22047
#1	20.295	2.0302	2.0266	2.0233	20.307	2.0265	2.0302
#2	20.211	2.0218	2.0174	2.0154	20.215	2.0212	2.0239
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0223	20.250	2.0228	2.0294	2.0455	20.257	2.0152
SDev	.0012	.055	.0063	.0023	.0029	.055	.0032
%RSD	.05875	.27385	.31393	.11230	.14019	.26921	.15970
#1	2.0231	20.290	2.0273	2.0310	2.0475	20.296	2.0175
#2	2.0215	20.211	2.0183	2.0278	2.0435	20.218	2.0130
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0105	20.123	20.231	1.0146	2.0316	2.0239	2.0286
SDev	.0034	.045	.022	.0026	.0069	.0041	.0058
%RSD	.33247	.22259	.10831	.25847	.34034	.20419	.28807
#1	1.0129	20.092	20.247	1.0165	2.0267	2.0269	2.0327
#2	1.0081	20.155	20.216	1.0127	2.0365	2.0210	2.0244
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.0226	2.0276	2.0247	2.0283	2.0251	2.0209	
SDev	.0057	.0052	.0070	.0032	.0072	.0018	
%RSD	.28115	.25828	.34518	.15822	.35324	.08879	
#1	2.0266	2.0313	2.0296	2.0306	2.0302	2.0196	
#2	2.0186	2.0239	2.0198	2.0260	2.0201	2.0222	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	40847	--	--	--	--	--	--
SDev	147.0782	--	--	--	--	--	--
%RSD	.3600710	--	--	--	--	--	--

Analysis Report

03/28/12 10:01:14 AM

page 2

#1	40743	--	--	--	--	--	--
#2	40951	--	--	--	--	--	--

Method: 20076010 Sample Name: ICV met0312ccv\_00005 Operator: DCL  
 Run Time: 03/28/12 10:01:18  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

file:///c:/tjadata/temp/a032812.TXT

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	2.4881	.50040	.50285	.49744	.50629	.49940	.50512
SDev	.0039	.00053	.00129	.00239	.00317	.00314	.00283
%RSD	.15688	.10616	.25661	.48144	.62692	.62855	.56110
#1	2.4909	.50078	.50376	.49913	.50854	.50162	.50712
#2	2.4854	.50003	.50194	.49575	.50405	.49718	.50312
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	12.571	.49970	.50205	.50088	2.5470	.45879	.50060
SDev	.069	.00281	.00222	.00222	.0217	.00201	.00340
%RSD	.54736	.56273	.44288	.44314	.85149	.43764	.67859
#1	12.620	.50169	.50363	.50245	2.5624	.46021	.50300
#2	12.523	.49771	.50048	.49931	2.5317	.45737	.49820
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.51152	5.0018	.49330	.51085	.50471	12.005	.94827
SDev	.00119	.0290	.00257	.00619	.00105	.101	.00463
%RSD	.23336	.57914	.52183	1.2108	.20765	.84236	.48819
#1	.51068	5.0222	.49512	.51522	.50545	12.077	.95155
#2	.51236	4.9813	.49148	.50647	.50397	11.934	.94500
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.24800	12.751	11.927	.24897	.51539	.50796	.50578
SDev	.00113	.016	.057	.00121	.00248	.00564	.00239
%RSD	.45645	.12670	.47504	.48459	.48063	1.1109	.47182
#1	.24880	12.740	11.967	.24982	.51714	.51195	.50747
#2	.24720	12.762	11.887	.24811	.51363	.50397	.50409
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	.50476	.51032	.49822	.50179	.50384	.51542	
SDev	.00285	.00252	.00458	.00281	.00377	.00368	
%RSD	.56568	.49446	.91946	.55901	.74899	.71341	
#1	.50678	.51210	.50146	.50378	.50651	.51282	
#2	.50274	.50853	.49498	.49981	.50117	.51802	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Analysis Report				03/28/12 10:05:06 AM		page 3	
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	41556	--	--	--	--	--	--
SDev	136.4716	--	--	--	--	--	--
%RSD	.3284081	--	--	--	--	--	--
#1	41459	--	--	--	--	--	--
#2	41652	--	--	--	--	--	--

Method: 20076010 Sample Name: ICB  
Run Time: 03/28/12 10:05:09

Operator: DCL



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Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00591	.00141	.00292	.00003	-.00000	.00292	-.00011
SDev	.00406	.00181	.00117	.00006	.00001	.00079	.00009
%RSD	68.705	128.38	40.150	240.30	279.59	26.963	80.860
#1	.00878	.00268	.00374	.00007	.00000	.00348	-.00005
#2	.00304	.00013	.00209	-.00002	-.00001	.00236	-.00018
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00208	.00005	-.00042	-.00003	-.01161	-.00002	.00040
SDev	.00046	.00032	.00036	.00046	.02536	.00009	.00035
%RSD	22.096	686.85	85.964	1513.9	218.54	570.93	87.070
#1	-.00176	.00027	-.00016	.00029	.00633	.00005	.00065
#2	-.00241	-.00018	-.00067	-.00036	-.02954	-.00008	.00015
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00064	-.00827	.00010	.00395	-.00068	-.06703	-.00185
SDev	.00125	.00564	.00009	.00067	.00033	.04685	.00125
%RSD	195.94	68.182	88.355	17.063	48.706	69.891	67.521
#1	.00152	-.00429	.00017	.00443	-.00044	-.03390	-.00096
#2	-.00025	-.01226	.00004	.00347	-.00091	-.10015	-.00273
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00041	-.16531	-.00281	.00003	.00562	-.00110	.00030
SDev	.00045	.11647	.00148	.00005	.00191	.00008	.00018
%RSD	108.91	70.457	52.658	178.90	33.984	7.6261	61.818
#1	-.00009	-.08295	-.00176	.00006	.00697	-.00104	.00043
#2	-.00073	-.24767	-.00385	-.00001	.00427	-.00116	.00017
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00034	.00060	-.00229	.00175	-.00661	.00426	
SDev	.00073	.00002	.00093	.00099	.00322	.00348	
%RSD	213.81	2.6152	40.444	56.466	48.688	81.667	
#1	.00086	.00059	-.00295	.00244	-.00888	.00672	
Analysis Report				03/28/12 10:08:57 AM		page 4	
#2	-.00018	.00062	-.00164	.00105	-.00433	.00180	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	41740	--	--	--	--	--	--
SDev	265.1650	--	--	--	--	--	--
%RSD	.6352856	--	--	--	--	--	--
#1	41552	--	--	--	--	--	--
#2	41927	--	--	--	--	--	--



file:///c:/tjadata/temp/a032812.TXT

Method: 20076010 Sample Name: CRI met0212low\_00003 Operator: DCL  
 Run Time: 03/28/12 10:09:00  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.10223	.00804	.01255	.00982	.00523	.01183	.00529
SDev	.00214	.00017	.00037	.00005	.00002	.00030	.00008
%RSD	2.0892	2.1429	2.9549	.54354	.34612	2.5304	1.5581

#1	.10072	.00816	.01229	.00985	.00525	.01204	.00535
#2	.10374	.00792	.01281	.00978	.00522	.01162	.00523

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.11014	.01011	.00916	.00954	.08216	.00782	.00997
SDev	.00158	.00014	.00044	.00002	.01535	.00007	.00000
%RSD	1.4327	1.3358	4.8618	.16194	18.682	.91134	.00590

#1	.11126	.01020	.00948	.00956	.09301	.00787	.00997
#2	.10903	.01001	.00885	.00953	.07130	.00777	.00997

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00866	.10001	.00977	.01099	.00981	.60566	.01120
SDev	.00176	.00408	.00003	.00009	.00079	.02462	.00072
%RSD	20.337	4.0837	.26469	.81404	8.0888	4.0650	6.4683

#1	.00990	.10290	.00979	.01105	.01037	.62307	.01171
#2	.00741	.09712	.00975	.01092	.00925	.58825	.01069

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00482	.57963	.57568	.00446	.01137	.00898	.01008
SDev	.00049	.05842	.00305	.00004	.00279	.00151	.00020
%RSD	10.249	10.080	.52906	.88771	24.540	16.863	2.0306

#1	.00517	.62094	.57783	.00448	.00940	.01005	.01022
#2	.00447	.53831	.57352	.00443	.01334	.00791	.00993

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00973	.01044	.00966	.01013	.00180	.01208

Analysis Report

03/28/12 10:12:47 AM

page 5

SDev	.00033	.00007	.00430	.00215	.00128	.00328
%RSD	3.4142	.65353	44.474	21.197	71.001	27.155

#1	.00996	.01039	.00662	.01165	.00090	.01440
#2	.00949	.01048	.01270	.00861	.00271	.00976

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	41236	--	--	--	--	--	--
SDev	109.6016	--	--	--	--	--	--
%RSD	.2657877	--	--	--	--	--	--
#1	41159	--	--	--	--	--	--

file:///c:/tjadata/temp/a032812.TXT

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	499.78	-.00186	.00142	.00179	-.00014	.00139	-.00434
SDev	.08	.00283	.00065	.00004	.00001	.00044	.00004
%RSD	.01669	152.30	45.977	2.4184	3.7004	31.260	1.0142
#1	499.84	-.00386	.00096	.00182	-.00013	.00170	-.00431
#2	499.73	.00014	.00189	.00176	-.00014	.00108	-.00438
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	452.21	.00197	-.00063	.01326	194.73	.00435	.00589
SDev	1.85	.00005	.00080	.00036	.54	.00012	.00077
%RSD	.40993	2.5422	126.58	2.6927	.27687	2.7440	13.140
#1	453.52	.00200	-.00007	.01301	195.11	.00444	.00534
#2	450.89	.00193	-.00120	.01352	194.35	.00427	.00643
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00440	515.59	-.00761	.00045	.00020	.12732	.01110
SDev	.00302	1.44	.00011	.00012	.00072	.06833	.00128
%RSD	68.664	.27832	1.4312	25.716	356.28	53.667	11.572
#1	-.00653	516.61	-.00769	.00037	.00071	.17564	.01019
#2	-.00226	514.58	-.00754	.00053	-.00031	.07901	.01200
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00039	.02340	.19421	-.00888	-.00779	-.00352	-.00309
SDev	.00070	.21763	.00514	.00007	.00097	.00048	.00002
%RSD	181.13	929.96	2.6468	.76797	12.406	13.620	.63459
#1	.00011	.17729	.19785	-.00893	-.00711	-.00386	-.00308
#2	-.00088	-.13049	.19058	-.00883	-.00848	-.00318	-.00311

Analysis Report

03/28/12 10:16:38 AM

page 6

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00402	-.00142	-.02495	.02130	-.00371	-.00474	
SDev	.00051	.00031	.00325	.00279	.00564	.00171	
%RSD	12.587	21.761	13.027	13.074	152.12	36.035	
#1	.00366	-.00164	-.02265	.01933	-.00770	-.00595	
#2	.00437	-.00120	-.02725	.02327	.00028	-.00353	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37550	--	--	--	--	--	--
SDev	343.6539	--	--	--	--	--	--
%RSD	.9151902	--	--	--	--	--	--

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#1      37307      --      --      --      --      --      --
#2      37793      --      --      --      --      --      --
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Method: 20076010   Sample Name: ICSAB metisb_00074   Operator: DCL
Run Time: 03/28/12 10:16:41
Comment: TRACE 61E
Mode: CONC   Corr. Factor: 1

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Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	515.68	1.0554	1.0482	1.0606	.50321	1.0674	.48365
SDev	.28	.0032	.0044	.0005	.00002	.0014	.00049
%RSD	.05455	.30162	.41783	.04371	.00335	.13429	.10148

#1	515.88	1.0531	1.0451	1.0603	.50319	1.0664	.48330
#2	515.48	1.0576	1.0513	1.0609	.50322	1.0684	.48400

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	461.92	.99610	.96536	1.0931	206.14	1.1965	1.0045
SDev	.05	.00020	.00036	.0003	.20	.0003	.0009
%RSD	.01107	.02019	.03687	.02616	.09872	.02603	.08534

#1	461.96	.99596	.96561	1.0933	206.29	1.1967	1.0051
#2	461.88	.99624	.96511	1.0929	206.00	1.1962	1.0039

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0297	530.28	.99415	1.0217	.97137	14.357	1.0278
SDev	.0001	.16	.00002	.0057	.00244	.018	.0001
%RSD	.00869	.03081	.00151	.55598	.25118	.12780	.01036

#1	1.0296	530.16	.99414	1.0177	.96964	14.370	1.0279
#2	1.0297	530.39	.99416	1.0257	.97309	14.344	1.0277

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.55335	12.025	13.545	.51126	1.0154	1.0171	1.0245
SDev	.00061	.048	.007	.00010	.0051	.0017	.0004

Analysis Report 03/28/12 10:20:29 AM page 7

%RSD	.11050	.39696	.04932	.01942	.50116	.17030	.04044
------	--------	--------	--------	--------	--------	--------	--------

#1	.55378	11.991	13.550	.51119	1.0118	1.0183	1.0242
#2	.55291	12.059	13.540	.51133	1.0190	1.0159	1.0248

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0136	1.0454	.96971	1.0219	1.0309	1.0290
SDev	.0003	.0006	.00150	.0005	.0042	.0020
%RSD	.02658	.06108	.15419	.05268	.41035	.19252

#1	1.0134	1.0449	.97076	1.0223	1.0279	1.0304
#2	1.0138	1.0458	.96865	1.0215	1.0339	1.0276

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	37701	--	--	--	--	--	--



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SDev	29.69848	--	--	--	--	--	--
%RSD	.0787737	--	--	--	--	--	--
#1	37680	--	--	--	--	--	--
#2	37722	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met0312ccv\_00005 Operator: DCL  
 Run Time: 03/28/12 10:20:32  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.5327	.51030	.50684	.50429	.50423	.50324	.50960
SDev	.0058	.00466	.00143	.00011	.00169	.00201	.00173
%RSD	.22919	.91401	.28260	.02213	.33598	.39867	.33988

#1	2.5368	.51360	.50785	.50437	.50543	.50466	.51083
#2	2.5286	.50700	.50582	.50421	.50303	.50183	.50838

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.593	.49939	.50081	.50333	2.5566	.46517	.50218
SDev	.035	.00123	.00197	.00031	.0008	.00002	.00098
%RSD	.27614	.24716	.39298	.06187	.03266	.00459	.19497

#1	12.618	.50026	.50220	.50355	2.5560	.46515	.50287
#2	12.568	.49851	.49942	.50311	2.5571	.46518	.50149

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50682	5.0257	.49502	.51105	.51188	12.113	.95329
SDev	.00224	.0225	.00140	.00153	.00110	.020	.00176
%RSD	.44219	.44751	.28260	.29837	.21516	.16564	.18504

#1	.50840	5.0416	.49601	.51213	.51266	12.127	.95454
#2	.50523	5.0098	.49404	.50997	.51110	12.099	.95205

Analysis Report

03/28/12 10:24:20 AM

page 8

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24911	12.769	12.112	.25261	.51939	.50817	.50859
SDev	.00024	.022	.006	.00013	.00335	.00462	.00132
%RSD	.09550	.16978	.04899	.05187	.64451	.90960	.25969

#1	.24928	12.754	12.107	.25270	.51702	.51144	.50952
#2	.24894	12.785	12.116	.25252	.52175	.50490	.50766

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50598	.51445	.49483	.50586	.49544	.51256
SDev	.00193	.00099	.00031	.00162	.00178	.00247
%RSD	.38228	.19206	.06278	.32104	.35988	.48195

#1	.50735	.51514	.49461	.50701	.49671	.51431
#2	.50461	.51375	.49505	.50471	.49418	.51081

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--





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Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	42346	--	--	--	--	--	--
SDev	40.30509	--	--	--	--	--	--
%RSD	.0951793	--	--	--	--	--	--
#1	42318	--	--	--	--	--	--
#2	42375	--	--	--	--	--	--

Analysis Report 03/28/12 10:35:06 AM page 1

Method: 20076010 Sample Name: mb 600-75754/1-a Operator: DCL  
 Run Time: 03/28/12 10:31:18  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.01903	-.00063	.00143	.00167	-.00010	.00229	-.00014
SDev	.00031	.00211	.00169	.00000	.00000	.00011	.00016
%RSD	1.6259	332.80	118.37	.13811	2.4282	4.9590	113.55

#1	.01881	-.00212	.00262	.00167	-.00010	.00237	-.00025
#2	.01925	.00086	.00023	.00166	-.00010	.00221	-.00003

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.01079	.00039	-.00007	.00049	.01973	.00003	.00130
SDev	.00032	.00014	.00008	.00027	.00389	.00001	.00030
%RSD	3.0144	35.233	108.68	55.032	19.721	23.271	23.199

#1	.01056	.00030	-.00013	.00030	.01698	.00004	.00109
#2	.01102	.00049	-.00002	.00069	.02248	.00003	.00151

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00243	.00120	.00023	.00098	.00003	-.00979	.00005
SDev	.00283	.00152	.00002	.00082	.00031	.01030	.00096
%RSD	116.56	126.67	7.5832	84.248	1114.4	105.14	2013.4

#1	.00444	.00227	.00022	.00156	.00025	-.00251	.00073
#2	.00043	.00013	.00025	.00040	-.00019	-.01707	-.00063

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00018	-.03828	.00003	.00019	.00302	-.00060	.00044
SDev	.00016	.00640	.00034	.00001	.00080	.00107	.00003
%RSD	89.449	16.721	996.31	6.2965	26.625	177.84	6.0569

#1	.00029	-.04281	.00028	.00018	.00358	-.00136	.00046
#2	.00007	-.03375	-.00021	.00020	.00245	.00016	.00042

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00035	.00241	-.00007	.00198	-.00307	.00518
SDev	.00030	.00013	.00021	.00035	.00200	.00325
%RSD	83.864	5.3232	315.06	17.497	65.276	62.753

#1	.00014	.00232	-.00022	.00174	-.00165	.00748
#2	.00057	.00250	.00008	.00223	-.00448	.00288



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IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	41347	--	--	--	--	--	--
SDev	125.8650	--	--	--	--	--	--
%RSD	.3044115	--	--	--	--	--	--

Analysis Report 03/28/12 10:35:06 AM page 2

#1	41258	--	--	--	--	--	--
#2	41436	--	--	--	--	--	--

Method: 20076010 Sample Name: lcs 600-75754/2-a Operator: DCL  
 Run Time: 03/28/12 10:35:09  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.175	1.0330	1.0393	1.0408	.51705	1.0277	.52657
SDev	.019	.0027	.0014	.0024	.00092	.0018	.00107
%RSD	.18808	.25954	.13626	.23018	.17782	.17690	.20381

#1	10.161	1.0311	1.0383	1.0391	.51640	1.0264	.52581
#2	10.188	1.0349	1.0403	1.0425	.51770	1.0289	.52733

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.348	1.0304	1.0350	1.0279	10.470	.47583	1.0356
SDev	.019	.0021	.0025	.0023	.041	.00080	.0014
%RSD	.18174	.20368	.24301	.22407	.39518	.16852	.13249

#1	10.334	1.0289	1.0332	1.0263	10.441	.47527	1.0346
#2	10.361	1.0319	1.0368	1.0296	10.499	.47640	1.0366

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0292	10.339	1.0313	1.0582	1.0584	10.231	.96411
SDev	.0024	.016	.0016	.0042	.0011	.025	.00193
%RSD	.23609	.15662	.15616	.40125	.10088	.23994	.19965

#1	1.0275	10.328	1.0302	1.0551	1.0576	10.214	.96275
#2	1.0309	10.350	1.0324	1.0612	1.0591	10.249	.96547

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51760	9.8917	9.9619	.52345	1.0652	1.0301	1.0356
SDev	.00086	.0110	.0216	.00117	.0058	.0049	.0020
%RSD	.16571	.11088	.21679	.22357	.54553	.47667	.19102

#1	.51699	9.8840	9.9466	.52262	1.0611	1.0266	1.0342
#2	.51820	9.8995	9.9772	.52427	1.0694	1.0336	1.0370

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0375	1.0576	1.0213	1.0428	1.0156	1.0360
SDev	.0012	.0015	.0023	.0009	.0022	.0026
%RSD	.11144	.14215	.22601	.08670	.21195	.24792

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#1	1.0367	1.0565	1.0196	1.0421	1.0140	1.0342
#2	1.0384	1.0587	1.0229	1.0434	1.0171	1.0378

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 03/28/12 10:38:57 AM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	41280	--	--	--	--	--	--
SDev	94.04520	--	--	--	--	--	--
%RSD	.2278254	--	--	--	--	--	--

#1	41346	--	--	--	--	--	--
#2	41213	--	--	--	--	--	--

Method: 20076010 Sample Name: lb 600-75710/1-b Operator: DCL

Run Time: 03/28/12 10:39:00

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02595	-.00040	.00375	.00537	-.00014	.00770	-.00007
SDev	.00041	.00190	.00150	.00001	.00003	.00176	.00009
%RSD	1.5725	473.78	40.027	.17866	18.253	22.844	122.70

#1	.02624	.00094	.00482	.00538	-.00012	.00895	-.00013
#2	.02567	-.00175	.00269	.00536	-.00016	.00646	-.00001

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06589	.00081	-.00001	.00074	.02029	.00052	.00072
SDev	.00002	.00002	.00025	.00028	.01684	.00004	.00003
%RSD	.03625	2.3338	1844.5	37.873	82.976	8.0187	4.8041

#1	.06590	.00082	-.00019	.00093	.00839	.00055	.00070
#2	.06587	.00079	.00016	.00054	.03219	.00049	.00075

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00298	.03629	.00038	.00383	-.00063	.19395	.00803
SDev	.00391	.00338	.00006	.00182	.00038	.03240	.00187
%RSD	131.04	9.3213	15.651	47.534	60.391	16.706	23.328

#1	.00575	.03868	.00042	.00512	-.00090	.21687	.00671
#2	.00022	.03389	.00033	.00254	-.00036	.17104	.00936

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00026	186.42	144.80	.00029	.00603	.00117	.00048
SDev	.00061	.52	.73	.00000	.00200	.00018	.00010
%RSD	239.98	.28119	.50151	.04698	33.183	15.646	20.532

#1	-.00018	186.79	145.32	.00029	.00744	.00104	.00056
#2	.00069	186.05	144.29	.00029	.00461	.00130	.00041

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00065	.00580	.00140	.00038	-.00073	.00484



file:///c:/tjadata/temp/a032812.TXT

SDev	.00017	.00007	.00087	.00038	.00147	.00513	
%RSD	26.129	1.1570	61.959	99.945	201.40	105.98	
#1	.00053	.00584	.00079	.00065	.00031	.00846	
Analysis Report				03/28/12 10:42:48 AM	page 4		
#2	.00077	.00575	.00202	.00011	-.00177	.00121	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40105	--	--	--	--	--	--
SDev	197.9899	--	--	--	--	--	--
%RSD	.4936788	--	--	--	--	--	--
#1	39965	--	--	--	--	--	--
#2	40245	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52295-a-1-d Operator: DCL  
Run Time: 03/28/12 10:42:51  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09680	.00094	.00431	.06928	-.00018	.00989	-.00006
SDev	.00316	.00236	.00232	.00046	.00000	.00012	.00000
%RSD	3.2675	251.93	53.797	.65979	1.3724	1.2159	3.8228
#1	.09903	.00261	.00267	.06961	-.00018	.00980	-.00006
#2	.09456	-.00073	.00595	.06896	-.00017	.00997	-.00006
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	83.629	.00048	.00008	.00053	.06233	.00096	.00076
SDev	.486	.00000	.00000	.00019	.00129	.00002	.00087
%RSD	.58084	.03371	.29053	36.135	2.0699	1.8101	113.68
#1	83.972	.00048	.00008	.00066	.06324	.00095	.00138
#2	83.285	.00048	.00008	.00039	.06142	.00097	.00015
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00132	1.3801	.14594	.00230	.00034	.34164	.24540
SDev	.00039	.0096	.00085	.00004	.00012	.00444	.01379
%RSD	29.735	.69511	.58389	1.8257	34.215	1.2986	5.6182
#1	.00160	1.3869	.14655	.00233	.00026	.33850	.25515
#2	.00104	1.3733	.14534	.00228	.00042	.34478	.23565
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00012	176.64	139.50	.21124	.00152	-.00039	.00171
SDev	.00024	.32	.39	.00119	.00065	.00142	.00033
%RSD	205.74	.18207	.27635	.56309	42.931	369.38	19.449
#1	.00005	176.87	139.78	.21209	.00198	.00062	.00195
#2	-.00029	176.41	139.23	.21040	.00106	-.00139	.00148
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	

file:///c:/tjadata/temp/a032812.TXT

Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00078	.00357	-.00019	.00124	-.00324	.00360	
Analysis Report				03/28/12 10:46:39 AM		page 5	
SDev	.00013	.00004	.00216	.00023	.00222	.00052	
%RSD	16.451	1.1345	1124.0	18.227	68.611	14.510	
#1	.00069	.00360	.00133	.00140	-.00167	.00323	
#2	.00087	.00355	-.00172	.00108	-.00481	.00396	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	39491	--	--	--	--	--	--
SDev	25.45585	--	--	--	--	--	--
%RSD	.0644599	--	--	--	--	--	--
#1	39509	--	--	--	--	--	--
#2	39473	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52295-a-2-d Operator: DCL  
Run Time: 03/28/12 10:46:42  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.67298	.00063	.00346	.10499	-.00002	.01456	-.00012
SDev	.00702	.00160	.00065	.00067	.00000	.00010	.00000
%RSD	1.0438	254.25	18.856	.63770	6.6185	.69354	3.4785
#1	.67794	-.00050	.00392	.10451	-.00002	.01449	-.00011
#2	.66801	.00176	.00300	.10546	-.00002	.01463	-.00012
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.210	.00077	-.00018	.00071	.24806	.00085	.00210
SDev	.059	.00000	.00022	.00002	.00667	.00002	.00031
%RSD	.53029	.33700	120.44	3.0486	2.6885	2.2590	14.855
#1	11.168	.00077	-.00003	.00073	.24335	.00084	.00188
#2	11.252	.00077	-.00034	.00070	.25278	.00086	.00232
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00066	1.9044	.01226	.00102	.00029	.33048	1.2001
SDev	.00030	.0091	.00028	.00013	.00048	.01316	.0333
%RSD	46.367	.47969	2.3287	12.623	163.81	3.9815	2.7789
#1	.00087	1.8979	.01205	.00092	.00063	.32117	1.2236
#2	.00044	1.9108	.01246	.00111	-.00005	.33978	1.1765
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00024	143.06	115.20	.03848	.00164	.00018	.01878
SDev	.00010	.32	.37	.00026	.00025	.00051	.00143
%RSD	40.291	.22402	.31715	.68668	15.356	288.47	7.6144
#1	-.00017	142.83	114.94	.03829	.00182	.00053	.01979
#2	-.00031	143.29	115.46	.03866	.00147	-.00018	.01777



file:///c:/tjadata/temp/a032812.TXT

Analysis Report

03/28/12 10:50:30 AM

page 6

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00089	.01152	.00203	.00214	-.00215	.00206	
SDev	.00007	.00083	.00143	.00024	.00177	.00043	
%RSD	7.4971	7.2150	70.204	11.431	82.000	20.671	
#1	.00084	.01093	.00102	.00231	-.00090	.00176	
#2	.00093	.01210	.00304	.00196	-.00340	.00236	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	40410	--	--	--	--	--	--
SDev	194.4544	--	--	--	--	--	--
%RSD	.4811976	--	--	--	--	--	--
#1	40548	--	--	--	--	--	--
#2	40273	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52295-a-3-d Operator: DCL  
Run Time: 03/28/12 10:50:34  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.66199	.00081	.00270	.10491	-.00007	.01240	-.00020
SDev	.00673	.00177	.00241	.00144	.00001	.00021	.00011
%RSD	1.0160	219.67	89.317	1.3705	21.069	1.6826	54.391
#1	.65724	-.00045	.00441	.10389	-.00006	.01225	-.00012
#2	.66675	.00206	.00099	.10592	-.00008	.01254	-.00028
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.709	.00077	.00001	-.00018	.26203	.00093	.00114
SDev	.170	.00006	.00011	.00028	.00202	.00008	.00002
%RSD	1.1545	7.5731	1595.8	156.29	.77163	8.1948	1.7774
#1	14.589	.00081	.00009	-.00037	.26060	.00088	.00116
#2	14.829	.00073	-.00007	.00002	.26346	.00099	.00113
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00145	1.8654	.01619	.00149	.00088	.37528	1.2393
SDev	.00012	.0287	.00018	.00071	.00035	.03995	.0035
%RSD	8.1901	1.5373	1.1068	47.689	39.644	10.645	.28030
#1	.00137	1.8451	.01607	.00200	.00063	.34703	1.2418
#2	.00153	1.8856	.01632	.00099	.00113	.40353	1.2369
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00009	165.73	130.93	.04765	.00136	.00235	.01843
SDev	.00017	1.99	1.38	.00060	.00210	.00074	.00051

Analysis Report

03/28/12 10:54:22 AM

page 7





file:///c:/tjadata/temp/a032812.TXT

%RSD	181.88	1.2005	1.0537	1.2484	154.09	31.410	2.7802
#1	.00003	164.32	129.95	.04723	.00285	.00288	.01879
#2	-.00021	167.14	131.90	.04807	-.00012	.00183	.01807
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00116	.00972	.00063	.00140	-.00301	.00368	
SDev	.00019	.00019	.00135	.00065	.00735	.00385	
%RSD	16.355	1.9645	214.88	46.095	243.82	104.64	
#1	.00103	.00958	.00159	.00094	.00218	.00096	
#2	.00130	.00985	-.00033	.00186	-.00821	.00641	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40216	--	--	--	--	--	--
SDev	398.8082	--	--	--	--	--	--
%RSD	.9916655	--	--	--	--	--	--
#1	40498	--	--	--	--	--	--
#2	39934	--	--	--	--	--	--
-----							
Method:	20076010	Sample Name:	600-52295-a-4-d	Operator:	DCL		
Run Time:	03/28/12 10:54:26						
Comment:	TRACE 61E						
Mode:	CONC	Corr. Factor:	1				
Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05661	.00073	.00364	.07655	-.00025	.01098	-.00010
SDev	.00001	.00271	.00259	.00045	.00001	.00049	.00019
%RSD	.02547	371.49	71.197	.58510	4.3299	4.4902	187.03
#1	.05662	-.00119	.00181	.07687	-.00024	.01133	.00003
#2	.05660	.00265	.00547	.07624	-.00025	.01063	-.00023
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	89.415	.00020	.00206	-.00039	.02679	.00095	.00046
SDev	.385	.00008	.00025	.00013	.00616	.00003	.00034
%RSD	.43062	41.649	11.976	33.150	22.990	3.3203	72.767
#1	89.687	.00014	.00223	-.00030	.02244	.00092	.00022
#2	89.143	.00025	.00188	-.00048	.03115	.00097	.00070
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00081	.84110	.19563	.00129	.00393	.39407	.30624
SDev	.00285	.00385	.00104	.00002	.00061	.01881	.00028
%RSD	353.92	.45812	.52948	1.7867	15.422	4.7732	.09063
#1	.00282	.84383	.19637	.00127	.00350	.38077	.30644
#2	-.00121	.83838	.19490	.00130	.00436	.40737	.30605

Analysis Report

03/28/12 10:58:14 AM

page 8





file:///c:/tjadata/temp/a032812.TXT

#2	.00366	.81803	.11256	.00145	.00032	.32116	.16801
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00010	173.60	137.43	.19184	.00123	.00019	.00003
SDev	.00017	.59	.26	.00053	.00222	.00117	.00006
%RSD	163.64	.34107	.18920	.27641	179.79	611.15	208.19
#1	.00022	174.02	137.61	.19221	.00280	-.00063	-.00001
#2	-.00002	173.18	137.24	.19146	-.00033	.00102	.00007
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00063	.00613	.00074	.00053	-.00390	.00576	
SDev	.00006	.00017	.00009	.00066	.00102	.00188	
%RSD	9.3200	2.7447	11.702	125.75	26.170	32.645	
#1	.00067	.00601	.00080	.00006	-.00463	.00443	
#2	.00059	.00625	.00067	.00099	-.00318	.00709	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39510	--	--	--	--	--	--
SDev	254.5584	--	--	--	--	--	--
%RSD	.6442887	--	--	--	--	--	--
#1	39690	--	--	--	--	--	--
#2	39330	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52295-a-6-f Operator: DCL  
Run Time: 03/28/12 11:02:08  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03070	.00128	.00406	.13096	-.00022	.01149	-.00003
SDev	.00047	.00027	.00070	.00088	.00000	.00038	.00008
%RSD	1.5403	20.822	17.159	.67271	.98784	3.3386	309.45
#1	.03103	.00109	.00455	.13158	-.00022	.01122	.00003
#2	.03036	.00147	.00357	.13034	-.00022	.01176	-.00009
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	53.971	.00028	-.00025	-.00034	.01970	.00090	.00075
SDev	.367	.00026	.00053	.00026	.01598	.00002	.00011
%RSD	.67912	94.000	206.45	77.866	81.098	2.1909	15.172
#1	54.230	.00009	.00012	-.00052	.03100	.00089	.00067
#2	53.712	.00046	-.00063	-.00015	.00840	.00091	.00083
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881

Analysis Report

03/28/12 11:05:56 AM

page 10

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00015	5.8037	.01130	.00066	.00048	.38203	.12283
SDev	.00065	.0404	.00001	.00104	.00079	.00760	.00195
%RSD	429.53	.69545	.12382	157.83	165.52	1.9904	1.5908

file:///c:/tjadata/temp/a032812.TXT

#1	-.00031	5.8323	.01131	.00139	.00104	.37665	.12421
#2	.00062	5.7752	.01129	-.00008	-.00008	.38740	.12145
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00054	165.55	131.73	.05891	.00037	.00069	-.00002
SDev	.00027	1.05	.56	.00033	.00261	.00064	.00002
%RSD	49.102	.63547	.42743	.56521	713.15	93.497	85.233
#1	-.00035	166.30	132.13	.05914	.00221	.00023	-.00003
#2	-.00073	164.81	131.33	.05867	-.00148	.00114	-.00001
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00022	.00605	.00064	.00081	-.00222	.00134	
SDev	.00025	.00002	.00259	.00112	.00046	.00121	
%RSD	112.51	.28194	401.87	138.73	20.592	90.358	
#1	.00004	.00604	-.00119	.00160	-.00190	.00048	
#2	.00039	.00607	.00247	.00002	-.00255	.00220	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39462	--	--	--	--	--	--
SDev	82.73149	--	--	--	--	--	--
%RSD	.2096458	--	--	--	--	--	--
#1	39521	--	--	--	--	--	--
#2	39404	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52117-b-1-b Operator: DCL  
Run Time: 03/28/12 11:05:59  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03029	.00215	.00171	.04152	-.00027	.14340	-.00016
SDev	.00183	.00072	.00028	.00001	.00002	.00034	.00009
%RSD	6.0392	33.345	16.306	.01252	7.8087	.23693	59.028
#1	.02900	.00164	.00151	.04152	-.00026	.14316	-.00009
#2	.03158	.00266	.00191	.04152	-.00029	.14364	-.00022
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	28.884	.00047	.00132	.00831	.01146	.00467	.00082
SDev	.009	.00008	.00016	.00011	.00598	.00000	.00022
%RSD	.03203	17.360	12.233	1.2680	52.173	.06109	26.783

Analysis Report 03/28/12 11:09:47 AM page 11

#1	28.890	.00041	.00144	.00824	.00723	.00467	.00067
#2	28.877	.00053	.00121	.00839	.01569	.00466	.00098
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

file:///c:/tjadata/temp/a032812.TXT

Avgc	.00051	2.1734	.52750	.00139	.00148	.58112	.62208
SDev	.00167	.0043	.00013	.00035	.00015	.01183	.00099
%RSD	326.71	.20015	.02423	24.967	10.176	2.0361	.15882

#1	.00169	2.1703	.52759	.00114	.00159	.57275	.62278
#2	-.00067	2.1765	.52741	.00163	.00137	.58948	.62138

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00020	66.402	57.572	.21843	.00066	.00146	.00008
SDev	.00026	.047	.103	.00003	.00309	.00044	.00010
%RSD	131.12	.07035	.17875	.01163	471.14	30.022	123.30

#1	-.00038	66.435	57.644	.21845	-.00153	.00115	.00001
#2	-.00001	66.369	57.499	.21841	.00284	.00176	.00015

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	.00032	.03055	-.00003	.00125	-.00401	.00277	
SDev	.00013	.00015	.00107	.00021	.00189	.00156	
%RSD	41.388	.49975	3349.6	16.495	47.068	56.315	

#1	.00022	.03044	-.00079	.00139	-.00268	.00388	
#2	.00041	.03066	.00073	.00110	-.00535	.00167	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	39626	--	--	--	--	--	--
SDev	137.8858	--	--	--	--	--	--
%RSD	.3479637	--	--	--	--	--	--
#1	39724	--	--	--	--	--	--
#2	39529	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met0312ccv\_00005 Operator: DCL  
Run Time: 03/28/12 11:09:50  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	2.4749	.50924	.51022	.50910	.50040	.50525	.52358
SDev	.0014	.00212	.00469	.00165	.00243	.00119	.00216
%RSD	.05486	.41573	.91938	.32390	.48560	.23543	.41348

#1	2.4758	.51074	.51354	.51026	.50212	.50609	.52511
#2	2.4739	.50775	.50691	.50793	.49869	.50441	.52205

Analysis Report

03/28/12 11:13:38 AM

page 12

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	12.725	.49907	.50107	.49459	2.6091	.46820	.50877
SDev	.050	.00176	.00224	.00078	.0300	.00090	.00397
%RSD	.39510	.35247	.44653	.15772	1.1507	.19188	.78055

#1	12.761	.50031	.50265	.49514	2.6303	.46884	.51158
#2	12.690	.49782	.49949	.49404	2.5878	.46757	.50596



file:///c:/tjadata/temp/a032812.TXT

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.51095	5.0418	.49710	.51344	.51568	12.505	.94462
SDev	.00695	.0224	.00205	.00283	.00256	.065	.00091
%RSD	1.3595	.44436	.41317	.55144	.49708	.52285	.09630

#1	.51587	5.0576	.49855	.51544	.51749	12.552	.94526
#2	.50604	5.0259	.49565	.51144	.51386	12.459	.94397

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.24999	12.675	12.027	.25680	.53013	.50986	.51113
SDev	.00116	.129	.001	.00084	.00153	.00531	.00207
%RSD	.46380	1.0168	.00817	.32871	.28887	1.0412	.40471

#1	.25081	12.766	12.027	.25740	.53122	.51361	.51259
#2	.24917	12.584	12.026	.25620	.52905	.50610	.50967

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.50512	.52388	.49434	.51599	.49449	.51925
SDev	.00195	.00205	.00491	.00350	.00484	.00800
%RSD	.38647	.39154	.99409	.67826	.97806	1.5410

#1	.50650	.52533	.49782	.51846	.49791	.52490
#2	.50374	.52243	.49087	.51351	.49107	.51359

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	39819	--	--	--	--	--	--
SDev	158.3919	--	--	--	--	--	--
%RSD	.3977798	--	--	--	--	--	--

#1	39707	--	--	--	--	--	--
#2	39931	--	--	--	--	--	--

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Method: 20076010      Sample Name: CCB      Operator: DCL  
Run Time: 03/28/12 11:13:41  
Comment: TRACE 61E  
Mode: CONC      Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.03446	.00067	.00429	.00020	-.00027	.00017	-.00015
SDev	.00402	.00380	.00101	.00017	.00002	.00015	.00015

Analysis Report      03/28/12 11:17:29 AM      page 13

%RSD	11.676	568.88	23.590	86.064	6.2180	89.316	95.042
#1	.03162	-.00202	.00357	.00008	-.00028	.00006	-.00026
#2	.03731	.00336	.00501	.00032	-.00025	.00028	-.00005

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00229	.00089	-.00034	-.00049	-.00626	.00024	.00029
SDev	.00048	.00031	.00040	.00070	.01325	.00002	.00077
%RSD	21.117	35.001	116.76	141.62	211.77	9.5239	265.57



file:///c:/tjadata/temp/a032812.TXT

#1	-.00263	.00067	-.00062	-.00099	-.01563	.00026	-.00026
#2	-.00195	.00111	-.00006	.00000	.00311	.00023	.00084
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00015	.01034	.00013	.00307	-.00073	.05814	-.00164
SDev	.00105	.00102	.00009	.00066	.00062	.00383	.00308
%RSD	680.45	9.8394	70.903	21.663	85.589	6.5838	187.93

#1	-.00090	.01106	.00007	.00354	-.00117	.06085	-.00382
#2	.00059	.00962	.00020	.00260	-.00029	.05544	.00054

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00007	-.14613	.01866	.00007	.00295	-.00047	.00047
SDev	.00069	.09921	.00196	.00006	.00042	.00233	.00027
%RSD	1023.5	67.895	10.526	79.724	14.164	498.23	56.783

#1	-.00056	-.21628	.02005	.00003	.00325	-.00211	.00028
#2	.00042	-.07597	.01727	.00011	.00266	.00118	.00066

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	.00116	.00083	-.00050	.00069	-.00538	.00246	
SDev	.00067	.00016	.00267	.00017	.00460	.00073	
%RSD	57.901	19.181	534.40	25.490	85.581	29.583	

#1	.00069	.00072	-.00238	.00081	-.00863	.00297	
#2	.00164	.00094	.00139	.00056	-.00212	.00194	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	41004	--	--	--	--	--	--
SDev	7.778174	--	--	--	--	--	--
%RSD	.0189691	--	--	--	--	--	--

#1	41010	--	--	--	--	--	--
#2	40999	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52117-b-1-c ms Operator: DCL  
Run Time: 03/28/12 11:17:32  
Comment: TRACE 61E

Analysis Report 03/28/12 11:21:20 AM page 14

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	10.352	1.0668	1.0621	1.0975	.51390	1.1910	.52886
SDev	.065	.0080	.0044	.0049	.00195	.0059	.00248
%RSD	.63161	.75309	.41211	.44999	.37925	.49554	.46986

#1	10.398	1.0725	1.0652	1.1010	.51527	1.1952	.53061
#2	10.306	1.0612	1.0590	1.0940	.51252	1.1868	.52710

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

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Avg	38.578	1.0214	1.0335	1.0344	10.567	.52090	1.0334
SDev	.164	.0035	.0045	.0058	.044	.00261	.0032
%RSD	.42611	.34586	.43770	.56391	.41989	.50067	.31386

#1	38.694	1.0239	1.0367	1.0385	10.599	.52275	1.0357
#2	38.461	1.0189	1.0303	1.0302	10.536	.51906	1.0311

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0319	12.405	1.5477	1.0754	1.0526	11.960	1.6311
SDev	.0034	.054	.0066	.0015	.0074	.051	.0092
%RSD	.33198	.43723	.42488	.13496	.70176	.43003	.56480

#1	1.0295	12.444	1.5524	1.0764	1.0578	11.996	1.6376
#2	1.0343	12.367	1.5431	1.0743	1.0474	11.924	1.6246

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48300	79.577	69.343	.75136	1.0939	1.0431	1.0467
SDev	.00269	.463	.425	.00387	.0024	.0054	.0052
%RSD	.55795	.58170	.61340	.51547	.21885	.51679	.49779

#1	.48491	79.905	69.644	.75409	1.0922	1.0469	1.0504
#2	.48110	79.250	69.043	.74862	1.0956	1.0393	1.0431

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.0389	1.1073	1.0049	1.0476	1.0089	1.0434	
SDev	.0045	.0051	.0019	.0039	.0004	.0050	
%RSD	.43380	.46451	.19007	.37324	.03533	.47539	

#1	1.0421	1.1110	1.0062	1.0504	1.0086	1.0399	
#2	1.0357	1.1037	1.0035	1.0448	1.0091	1.0469	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	40605	--	--	--	--	--	--
SDev	33.94112	--	--	--	--	--	--
%RSD	.0835885	--	--	--	--	--	--
#1	40629	--	--	--	--	--	--
#2	40581	--	--	--	--	--	--

Analysis Report

03/28/12 11:21:20 AM

page 15

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Method: 20076010 Sample Name: 600-52258-d-1-b Operator: DCL  
Run Time: 03/28/12 11:21:23  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03961	-.00076	.00398	.17167	-.00029	.33061	-.00019
SDev	.00380	.00094	.00012	.00386	.00000	.00996	.00009
%RSD	9.6066	124.16	2.8822	2.2491	1.4116	3.0123	49.679
#1	.04230	-.00009	.00390	.17440	-.00029	.33765	-.00025
#2	.03692	-.00142	.00407	.16894	-.00029	.32357	-.00012





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Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.188	.00235	.00125	.00146	.15212	.00423	.00067
SDev	.484	.00033	.00015	.00008	.01006	.00027	.00027
%RSD	2.3991	13.907	12.043	5.2112	6.6118	6.4444	39.505

#1	20.531	.00258	.00136	.00141	.15924	.00442	.00049
#2	19.846	.00212	.00114	.00152	.14501	.00404	.00086

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00299	7.0378	.20249	.00417	.00585	12.460	1.5209
SDev	.00364	.1912	.00494	.00167	.00009	.346	.0369
%RSD	122.06	2.7169	2.4409	40.117	1.4814	2.7740	2.4255

#1	.00556	7.1730	.20599	.00536	.00591	12.704	1.5469
#2	.00041	6.9026	.19900	.00299	.00579	12.215	1.4948

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00029	127.40	104.70	.16245	.00689	.00015	.00065
SDev	.00006	2.66	2.15	.00365	.00766	.00046	.00011
%RSD	20.267	2.0869	2.0526	2.2453	111.15	309.43	16.887

#1	-.00025	129.28	106.22	.16503	.01231	-.00018	.00073
#2	-.00033	125.52	103.18	.15987	.00148	.00047	.00057

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00092	.02320	.00012	.00095	-.00526	.00711	
SDev	.00021	.00043	.00119	.00020	.00032	.00562	
%RSD	23.363	1.8585	977.17	20.595	5.9937	79.120	

#1	.00107	.02350	-.00072	.00109	-.00548	.01108	
#2	.00077	.02290	.00096	.00081	-.00504	.00313	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40285	--	--	--	--	--	--

Analysis Report 03/28/12 11:25:11 AM page 16

SDev	765.0895	--	--	--	--	--	--
%RSD	1.899192	--	--	--	--	--	--
#1	39744	--	--	--	--	--	--
#2	40826	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52432-c-1-e Operator: DCL  
Run Time: 03/28/12 11:25:14  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04053	-.00050	.00355	.01056	-.00034	.01105	-.00012
SDev	.00023	.00066	.00098	.00001	.00002	.00090	.00006
%RSD	.57869	131.10	27.542	.07053	4.4351	8.1729	49.282



file:///c:/tjadata/temp/a032812.TXT

#1	.04036	-.00097	.00424	.01056	-.00033	.01169	-.00016
#2	.04069	-.00004	.00286	.01055	-.00036	.01041	-.00008
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.53625	.00051	-.00038	-.00089	.00608	.00060	.00086
SDev	.00042	.00037	.00011	.00061	.00768	.00000	.00008
%RSD	.07832	71.830	28.433	68.434	126.47	.66898	8.9854
#1	.53595	.00078	-.00030	-.00046	.00064	.00061	.00081
#2	.53654	.00025	-.00046	-.00132	.01151	.00060	.00092
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00034	.15786	.00136	.00162	-.00052	.25231	.01802
SDev	.00118	.00334	.00004	.00085	.00031	.00903	.00337
%RSD	347.10	2.1163	2.8995	52.614	60.988	3.5790	18.687
#1	.00117	.16022	.00139	.00223	-.00074	.25870	.02040
#2	-.00049	.15550	.00133	.00102	-.00029	.24593	.01564
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00016	185.23	144.76	.00138	.00359	-.00061	.00023
SDev	.00012	.79	.40	.00001	.00139	.00032	.00005
%RSD	73.521	.42434	.27364	1.0505	38.855	53.114	20.055
#1	-.00025	185.78	145.04	.00139	.00260	-.00084	.00027
#2	-.00008	184.67	144.48	.00137	.00457	-.00038	.00020
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00023	.01577	-.00064	.00161	-.00521	.00311	
SDev	.00014	.00015	.00182	.00079	.00111	.00232	
%RSD	58.837	.93946	286.23	49.298	21.232	74.646	
#1	.00032	.01567	-.00192	.00217	-.00599	.00476	
#2	.00013	.01588	.00065	.00105	-.00442	.00147	

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- 11
- 12
- 13
- 14
- 15
- 16

Analysis Report

03/28/12 11:29:02 AM

page 17

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	39944	--	--	--	--	--	--
SDev	38.89087	--	--	--	--	--	--
%RSD	.0973647	--	--	--	--	--	--
#1	39916	--	--	--	--	--	--
#2	39971	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52432-c-1-f ms Operator: DCL  
 Run Time: 03/28/12 11:29:05  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

file:///c:/tjadata/temp/a032812.TXT

Avge	10.494	1.0848	1.0792	1.0820	.52056	1.0877	.54717
SDev	.042	.0013	.0041	.0034	.00127	.0021	.00054
%RSD	.39891	.11792	.37866	.31485	.24483	.19038	.09937
#1	10.523	1.0839	1.0821	1.0844	.52146	1.0892	.54756
#2	10.464	1.0857	1.0763	1.0796	.51966	1.0862	.54679
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.121	1.0400	1.0486	1.0383	10.725	.54381	1.0651
SDev	.029	.0025	.0032	.0037	.033	.00187	.0031
%RSD	.25726	.24049	.30299	.35912	.30333	.34420	.28912
#1	11.141	1.0417	1.0509	1.0410	10.748	.54514	1.0673
#2	11.101	1.0382	1.0464	1.0357	10.702	.54249	1.0630
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0711	10.604	1.0443	1.0992	1.0837	13.242	1.0127
SDev	.0036	.017	.0029	.0026	.0020	.050	.0033
%RSD	.33663	.15613	.27716	.24082	.18000	.37771	.32690
#1	1.0686	10.615	1.0463	1.0973	1.0851	13.278	1.0151
#2	1.0737	10.592	1.0422	1.1011	1.0823	13.207	1.0104
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53289	202.25	157.65	.54183	1.1298	1.0624	1.0630
SDev	.00209	1.07	.70	.00167	.0045	.0018	.0029
%RSD	.39258	.53090	.44254	.30838	.40062	.16571	.27477
#1	.53437	203.01	158.14	.54302	1.1266	1.0636	1.0651
#2	.53141	201.49	157.15	.54065	1.1330	1.0611	1.0609
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.0521	1.1156	1.0346	1.0804	1.0443	1.0846	
SDev	.0033	.0023	.0040	.0026	.0078	.0015	
%RSD	.31510	.20813	.38506	.24319	.74775	.13870	

Analysis Report

03/28/12 11:32:53 AM

page 18

#1	1.0544	1.1173	1.0375	1.0822	1.0387	1.0835	
#2	1.0497	1.1140	1.0318	1.0785	1.0498	1.0856	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39400	--	--	--	--	--	--
SDev	99.70206	--	--	--	--	--	--
%RSD	.2530541	--	--	--	--	--	--
#1	39329	--	--	--	--	--	--
#2	39470	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52207-g-1-d Operator: DCL  
Run Time: 03/28/12 11:32:56  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1



file:///c:/tjadata/temp/a032812.TXT

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05721	.00241	.00285	.17066	-.00035	.01119	.00003
SDev	.00096	.00300	.00096	.00061	.00001	.00037	.00002
%RSD	1.6824	124.60	33.729	.35608	1.8169	3.2691	80.210

#1	.05789	.00029	.00352	.17109	-.00035	.01093	.00004
#2	.05653	.00454	.00217	.17023	-.00035	.01145	.00001

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	85.252	.00040	.00176	-.00069	.02591	.00128	.00096
SDev	.429	.00005	.00006	.00008	.00051	.00000	.00076
%RSD	.50379	12.121	3.1977	11.612	1.9557	.33218	79.806

#1	85.556	.00037	.00180	-.00075	.02555	.00127	.00150
#2	84.948	.00044	.00172	-.00064	.02627	.00128	.00042

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00408	2.7724	.27746	.00671	.00058	.50277	.35675
SDev	.00158	.0173	.00115	.00196	.00043	.00354	.00144
%RSD	38.793	.62283	.41545	29.195	74.119	.70347	.40228

#1	.00520	2.7846	.27828	.00810	.00088	.50527	.35776
#2	.00296	2.7602	.27665	.00533	.00028	.50027	.35574

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00015	188.61	148.49	.13850	.00538	.00004	.00014
SDev	.00000	.81	.57	.00054	.00348	.00124	.00006
%RSD	.21481	.43193	.38091	.39161	64.619	3398.1	46.627

#1	-.00015	189.19	148.89	.13888	.00784	.00091	.00009
#2	-.00015	188.04	148.09	.13811	.00292	-.00084	.00018

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
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Analysis Report

03/28/12 11:36:44 AM

page 19

Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00073	.00688	.00034	.00126	.00002	.00612	
SDev	.00015	.00006	.00005	.00112	.00363	.00056	
%RSD	20.219	.91723	14.151	88.731	18021.	9.1707	

#1	.00084	.00683	.00038	.00206	.00259	.00651	
#2	.00063	.00692	.00031	.00047	-.00255	.00572	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39202	--	--	--	--	--	--
SDev	25.45585	--	--	--	--	--	--
%RSD	.0649351	--	--	--	--	--	--

#1	39184	--	--	--	--	--	--
#2	39220	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52208-g-1-d Operator: DCL  
Run Time: 03/28/12 11:36:47  
Comment: TRACE 61E

file:///c:/tjadata/temp/a032812.TXT

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04136	.00071	.00389	.05564	-.00039	.01995	-.00016
SDev	.00154	.00202	.00039	.00017	.00000	.00044	.00007
%RSD	3.7225	286.40	10.007	.30191	.67350	2.2101	41.623
#1	.04245	.00213	.00416	.05576	-.00038	.02026	-.00011
#2	.04028	-.00072	.00361	.05553	-.00039	.01963	-.00021
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	94.446	.00096	-.00000	-.00037	.00653	.00160	.00153
SDev	.241	.00044	.00016	.00033	.00132	.00006	.00022
%RSD	.25539	46.306	5196.7	88.041	20.230	3.5959	14.199
#1	94.617	.00127	.00011	-.00014	.00746	.00165	.00138
#2	94.275	.00065	-.00012	-.00061	.00559	.00156	.00168
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00472	.85073	.08513	.00146	.00040	.69319	2.1068
SDev	.00087	.00414	.00027	.00031	.00018	.01990	.0034
%RSD	18.352	.48636	.32112	21.096	44.960	2.8707	.16292
#1	.00534	.85366	.08533	.00168	.00028	.70726	2.1092
#2	.00411	.84781	.08494	.00124	.00053	.67912	2.1043
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00048	189.70	149.69	.13930	.00110	.00048	-.00019
SDev	.00017	.10	.41	.00036	.00363	.00064	.00015
%RSD	34.669	.05147	.27077	.25694	330.99	131.39	78.216

Analysis Report

03/28/12 11:40:35 AM

page 20

#1	-.00036	189.77	149.98	.13956	-.00147	.00093	-.00009
#2	-.00060	189.63	149.41	.13905	.00366	.00003	-.00030
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00173	.01100	-.00005	.00232	-.00095	.00756	
SDev	.00046	.00012	.00130	.00098	.00241	.00251	
%RSD	26.566	1.1149	2878.1	42.151	254.77	33.171	
#1	.00206	.01091	.00087	.00163	-.00266	.00933	
#2	.00141	.01109	-.00097	.00301	.00076	.00579	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39183	--	--	--	--	--	--
SDev	152.7351	--	--	--	--	--	--
%RSD	.3897993	--	--	--	--	--	--
#1	39075	--	--	--	--	--	--
#2	39291	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52208-g-1-e ms Operator: DCL



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Run Time: 03/28/12 11:40:38

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.513	1.0896	1.0868	1.1196	.51616	1.0996	.53576
SDev	.001	.0055	.0080	.0017	.00099	.0021	.00090
%RSD	.01411	.50908	.74013	.15206	.19095	.19485	.16812

#1	10.514	1.0857	1.0811	1.1183	.51546	1.0981	.53513
#2	10.511	1.0935	1.0925	1.1208	.51686	1.1011	.53640

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	104.80	1.0271	1.0295	1.0340	10.604	.55137	1.0519
SDev	.17	.0025	.0016	.0003	.009	.00017	.0050
%RSD	.16394	.24002	.15312	.03042	.08068	.03113	.47671

#1	104.68	1.0254	1.0284	1.0342	10.598	.55125	1.0483
#2	104.92	1.0289	1.0306	1.0338	10.610	.55149	1.0554

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0621	11.136	1.1181	1.1025	1.0698	13.949	3.2395
SDev	.0014	.016	.0019	.0069	.0006	.027	.0020
%RSD	.13161	.14590	.16588	.62135	.05179	.19349	.06324

#1	1.0611	11.124	1.1168	1.0976	1.0695	13.930	3.2380
#2	1.0631	11.147	1.1194	1.1073	1.0702	13.968	3.2409

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Analysis Report

03/28/12 11:44:26 AM

page 21

Avge	.53259	206.05	161.93	.67870	1.1241	1.0610	1.0597
SDev	.00004	.41	.15	.00126	.0069	.0034	.0016
%RSD	.00675	.20021	.08992	.18570	.61697	.31836	.15241

#1	.53256	206.34	162.04	.67781	1.1192	1.0587	1.0585
#2	.53261	205.76	161.83	.67959	1.1290	1.0634	1.0608

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0496	1.1068	1.0175	1.0691	1.0360	1.0752
SDev	.0021	.0020	.0027	.0062	.0012	.0027
%RSD	.19619	.18019	.26867	.57570	.11414	.25003

#1	1.0481	1.1054	1.0155	1.0647	1.0369	1.0733
#2	1.0510	1.1082	1.0194	1.0734	1.0352	1.0771

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38986	--	--	--	--	--	--
SDev	169.7056	--	--	--	--	--	--
%RSD	.4352989	--	--	--	--	--	--

#1	39106	--	--	--	--	--	--
#2	38866	--	--	--	--	--	--

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 Method: 20076010 Sample Name: 600-52208-g-1-f msd Operator: DCL  
 Run Time: 03/28/12 11:44:29  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.213	1.0647	1.0570	1.0943	.50383	1.0724	.52422
SDev	.064	.0135	.0070	.0082	.00401	.0057	.00418
%RSD	.62641	1.2696	.65804	.75032	.79673	.53374	.79736

#1	10.258	1.0743	1.0620	1.1001	.50666	1.0764	.52718
#2	10.168	1.0551	1.0521	1.0885	.50099	1.0683	.52127

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	102.00	1.0008	1.0045	1.0061	10.363	.53680	1.0251
SDev	.80	.0073	.0081	.0065	.105	.00361	.0072
%RSD	.78611	.72874	.80938	.64491	1.0167	.67211	.69762

#1	102.56	1.0059	1.0103	1.0107	10.438	.53935	1.0302
#2	101.43	.99563	.99878	1.0015	10.289	.53425	1.0200

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0421	10.853	1.0896	1.0742	1.0412	13.521	3.1513
SDev	.0072	.081	.0084	.0074	.0088	.111	.0222
%RSD	.69023	.74236	.77523	.68609	.84489	.82190	.70467

#1	1.0472	10.910	1.0956	1.0794	1.0474	13.600	3.1670
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Analysis Report 03/28/12 11:48:17 AM page 22

#2	1.0370	10.796	1.0836	1.0690	1.0349	13.443	3.1356
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Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51982	199.94	157.39	.66148	1.1041	1.0316	1.0304
SDev	.00411	.93	.93	.00474	.0013	.0123	.0082
%RSD	.79115	.46556	.59035	.71592	.11943	1.1888	.79724

#1	.52273	200.59	158.04	.66483	1.1032	1.0402	1.0362
#2	.51691	199.28	156.73	.65813	1.1051	1.0229	1.0246

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0231	1.0820	.99105	1.0421	1.0128	1.0568
SDev	.0079	.0069	.00447	.0085	.0133	.0041
%RSD	.77065	.63491	.45119	.81480	1.3179	.38944

#1	1.0287	1.0868	.99421	1.0481	1.0223	1.0597
#2	1.0175	1.0771	.98789	1.0361	1.0034	1.0539

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	39774	--	--	--	--	--	--
SDev	174.6554	--	--	--	--	--	--
%RSD	.4391250	--	--	--	--	--	--

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#1	39650	--	--	--	--	--	--
#2	39897	--	--	--	--	--	--
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Method:	20076010	Sample Name:	600-52209-g-1-d	Operator:	DCL		
Run Time:	03/28/12	11:48:21					
Comment:	TRACE 61E						
Mode:	CONC	Corr. Factor:	1				
Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05654	-.00025	.00553	.12631	-.00039	.01423	.00002
SDev	.00213	.00176	.00045	.00021	.00001	.00067	.00006
%RSD	3.7699	696.95	8.0850	.16817	3.5808	4.6842	266.65
#1	.05804	-.00149	.00584	.12646	-.00038	.01470	-.00002
#2	.05503	.00099	.00521	.12616	-.00040	.01376	.00007
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	84.693	.00046	.00015	.00017	.01378	.00126	.00139
SDev	.142	.00013	.00022	.00024	.01078	.00001	.00020
%RSD	.16737	28.508	146.16	140.67	78.266	.42939	14.645
#1	84.793	.00037	-.00001	.00034	.00615	.00125	.00154
#2	84.593	.00056	.00031	.00000	.02140	.00126	.00125
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00316	2.5381	.03570	.00540	.00010	.49246	.23886
Analysis Report		03/28/12 11:52:09 AM				page 23	
SDev	.00178	.0024	.00011	.00211	.00038	.01091	.00161
%RSD	56.477	.09613	.29520	39.085	377.79	2.2150	.67280
#1	.00442	2.5398	.03578	.00689	-.00017	.48475	.24000
#2	.00190	2.5364	.03563	.00391	.00037	.50017	.23772
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00005	190.52	150.02	.13521	.00487	.00045	.00011
SDev	.00034	.07	.03	.00013	.00636	.00145	.00007
%RSD	636.27	.03860	.02174	.09810	130.59	322.70	64.873
#1	-.00029	190.57	150.05	.13530	.00936	.00148	.00015
#2	.00019	190.47	150.00	.13512	.00037	-.00058	.00006
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00086	.01683	.00087	.00166	-.00028	.00487	
SDev	.00021	.00012	.00249	.00155	.00055	.00240	
%RSD	24.894	.73645	287.06	93.591	200.46	49.179	
#1	.00101	.01692	-.00089	.00275	.00012	.00657	
#2	.00071	.01674	.00262	.00056	-.00067	.00318	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38982	--	--	--	--	--	--

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SDev	77.07464	--	--	--	--	--	--
%RSD	.1977160	--	--	--	--	--	--
#1	39037	--	--	--	--	--	--
#2	38928	--	--	--	--	--	--
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Method:	20076010	Sample Name:	600-52210-g-1-d	Operator:	DCL		
Run Time:	03/28/12 11:52:12						
Comment:	TRACE 61E						
Mode:	CONC	Corr. Factor:	1				
Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04492	.00342	.00241	.05243	-.00041	.00760	-.00008
SDev	.00008	.00144	.00010	.00020	.00000	.00024	.00002
%RSD	.18171	42.076	4.1325	.38209	.54504	3.1285	22.567
#1	.04498	.00444	.00233	.05257	-.00041	.00777	-.00010
#2	.04486	.00240	.00248	.05229	-.00041	.00743	-.00007
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	91.747	.00025	-.00032	-.00136	.00462	.00098	.00090
SDev	.549	.00003	.00039	.00016	.00628	.00009	.00007
%RSD	.59810	12.987	121.14	11.441	136.12	8.7408	7.4687
#1	92.135	.00028	-.00005	-.00147	.00906	.00104	.00095
Analysis Report		03/28/12 11:56:01 AM				page 24	
#2	91.359	.00023	-.00060	-.00125	.00017	.00092	.00086
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00226	.89189	.07067	.00205	.00017	.34517	.06163
SDev	.00098	.00849	.00041	.00040	.00052	.03115	.00162
%RSD	43.293	.95217	.57631	19.382	316.03	9.0253	2.6364
#1	.00157	.89790	.07096	.00233	.00054	.36720	.06278
#2	.00295	.88589	.07038	.00177	-.00020	.32314	.06048
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00029	188.84	149.25	.04332	.00037	-.00015	-.00029
SDev	.00019	.68	.45	.00012	.00238	.00090	.00003
%RSD	65.567	.36073	.30136	.28168	635.41	617.48	9.1517
#1	-.00016	189.32	149.57	.04341	.00206	.00049	-.00027
#2	-.00043	188.36	148.94	.04324	-.00131	-.00078	-.00031
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00051	.17955	-.00145	.00208	-.00127	.00403	
SDev	.00026	.00117	.00073	.00047	.00018	.00138	
%RSD	52.088	.64929	50.023	22.333	13.924	34.269	
#1	.00069	.18037	-.00197	.00241	-.00140	.00305	
#2	.00032	.17872	-.00094	.00175	-.00115	.00500	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

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Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38991	--	--	--	--	--	--
SDev	106.0660	--	--	--	--	--	--
%RSD	.2720269	--	--	--	--	--	--
#1	38916	--	--	--	--	--	--
#2	39066	--	--	--	--	--	--

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Method: 20076010 Sample Name: CCV met0312ccv\_00005 Operator: DCL  
Run Time: 03/28/12 11:56:04  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.3912	.50202	.49838	.49822	.47788	.49063	.51152
SDev	.0024	.00007	.00217	.00142	.00245	.00053	.00272
%RSD	.09839	.01385	.43551	.28563	.51216	.10879	.53248

#1	2.3929	.50198	.49991	.49923	.47961	.49025	.51345
#2	2.3895	.50207	.49684	.49721	.47615	.49101	.50960

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Analysis Report 03/28/12 11:59:52 AM page 25

Avge	12.280	.47913	.47975	.47343	2.5319	.45785	.49388
SDev	.062	.00244	.00242	.00113	.0063	.00158	.00346
%RSD	.50603	.50914	.50505	.23828	.24954	.34607	.70051

#1	12.324	.48086	.48146	.47422	2.5363	.45897	.49633
#2	12.236	.47741	.47804	.47263	2.5274	.45673	.49143

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49378	4.8265	.47895	.49801	.50016	12.154	.90962
SDev	.00114	.0345	.00222	.00007	.00296	.122	.00262
%RSD	.23058	.71440	.46267	.01407	.59226	1.0037	.28791

#1	.49297	4.8509	.48052	.49796	.50226	12.240	.91147
#2	.49458	4.8022	.47739	.49806	.49807	12.067	.90777

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24144	12.389	11.771	.25137	.52001	.49224	.49491
SDev	.00110	.108	.020	.00083	.00575	.00028	.00188
%RSD	.45353	.86938	.17351	.33126	1.1055	.05587	.38093

#1	.24221	12.313	11.785	.25196	.51595	.49205	.49625
#2	.24066	12.465	11.756	.25078	.52408	.49243	.49358

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.48568	.51083	.47561	.50301	.47440	.50352	
SDev	.00187	.00276	.00218	.00410	.00101	.00120	
%RSD	.38413	.54026	.45932	.81453	.21345	.23858	

#1	.48700	.51279	.47715	.50591	.47369	.50267	
#2	.48436	.50888	.47406	.50012	.47512	.50437	



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IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40816	--	--	--	--	--	--
SDev	542.3509	--	--	--	--	--	--
%RSD	1.328787	--	--	--	--	--	--
#1	40432	--	--	--	--	--	--
#2	41199	--	--	--	--	--	--

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Method: 20076010      Sample Name: CCB      Operator: DCL  
Run Time: 03/28/12 11:59:55  
Comment: TRACE 61E  
Mode: CONC      Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04801	.00171	.00429	.00020	-.00042	-.00124	-.00011
SDev	.00338	.00320	.00041	.00015	.00002	.00174	.00012
%RSD	7.0425	187.14	9.5760	76.812	4.3432	140.15	105.69

Analysis Report      03/28/12 12:03:43 PM      page 26

#1	.05040	.00397	.00458	.00030	-.00041	-.00001	-.00019
#2	.04562	-.00055	.00400	.00009	-.00043	-.00248	-.00003

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00522	.00081	-.00010	-.00067	.00390	.00024	.00086
SDev	.00139	.00079	.00043	.00091	.03235	.00008	.00089
%RSD	26.648	97.368	424.94	137.26	829.33	31.654	103.19

#1	-.00620	.00137	-.00041	-.00002	-.01897	.00030	.00023
#2	-.00423	.00025	.00020	-.00131	.02677	.00019	.00149

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00230	.00591	.00020	.00205	-.00035	.02342	-.00368
SDev	.00171	.00139	.00015	.00114	.00023	.02046	.00191
%RSD	74.361	23.466	75.862	55.413	64.804	87.381	51.971

#1	.00109	.00689	.00031	.00285	-.00052	.03789	-.00233
#2	.00351	.00493	.00009	.00125	-.00019	.00895	-.00503

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00002	.03123	.02606	.00008	.00476	-.00075	.00051
SDev	.00063	.25095	.00442	.00005	.00112	.00213	.00030
%RSD	2805.0	803.52	16.973	66.341	23.588	283.93	58.678

#1	-.00047	-.14621	.02919	.00011	.00556	-.00225	.00073
#2	.00042	.20868	.02294	.00004	.00397	.00075	.00030

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00107	.00780	-.00139	.00199	-.00305	.00498
SDev	.00057	.00015	.00566	.00150	.00900	.00193
%RSD	53.576	1.8612	408.36	75.260	294.57	38.871

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#1	.00147	.00790	-.00539	.00305	-.00942	.00634
#2	.00066	.00770	.00262	.00093	.00331	.00361

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40760	--	--	--	--	--	--
SDev	211.4249	--	--	--	--	--	--
%RSD	.5187132	--	--	--	--	--	--

#1	40610	--	--	--	--	--	--
#2	40909	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52210-g-1-e ms Operator: DCL  
Run Time: 03/28/12 12:03:46  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
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Analysis Report 03/28/12 12:07:35 PM page 27

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.274	1.0596	1.0462	1.0881	.49673	1.0579	.52188
SDev	.078	.0042	.0023	.0068	.00235	.0078	.00302
%RSD	.76263	.39195	.21845	.62793	.47339	.74104	.57787

#1	10.329	1.0625	1.0478	1.0930	.49839	1.0634	.52401
#2	10.219	1.0567	1.0445	1.0833	.49506	1.0523	.51975

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	98.463	.99087	.99525	1.0059	10.290	.54013	1.0212
SDev	.505	.00411	.00494	.0056	.065	.00387	.0025
%RSD	.51335	.41447	.49666	.55303	.63229	.71608	.24251

#1	98.820	.99378	.99874	1.0098	10.336	.54286	1.0229
#2	98.105	.98797	.99175	1.0020	10.244	.53739	1.0194

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0338	10.775	1.0675	1.0652	1.0310	12.998	1.0379
SDev	.0018	.045	.0059	.0030	.0081	.057	.0065
%RSD	.17843	.41662	.54867	.28537	.79031	.44179	.62573

#1	1.0325	10.807	1.0716	1.0674	1.0368	13.039	1.0425
#2	1.0351	10.744	1.0634	1.0631	1.0252	12.958	1.0333

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51912	201.79	157.22	.56459	1.0959	1.0166	1.0242
SDev	.00278	1.69	.98	.00326	.0006	.0054	.0051
%RSD	.53604	.83821	.62132	.57795	.05377	.52664	.50004

#1	.52108	202.99	157.91	.56689	1.0963	1.0204	1.0279
#2	.51715	200.60	156.53	.56228	1.0955	1.0128	1.0206

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0130	1.2378	.97932	1.0421	1.0019	1.0498

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SDev	.0052	.0065	.00010	.0038	.0047	.0004
%RSD	.50975	.52273	.01001	.36116	.46815	.04017
#1	1.0167	1.2424	.97925	1.0447	.99854	1.0495
#2	1.0094	1.2332	.97938	1.0394	1.0052	1.0501

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40644	--	--	--	--	--	--
SDev	79.19596	--	--	--	--	--	--
%RSD	.1948528	--	--	--	--	--	--
#1	40700	--	--	--	--	--	--
#2	40588	--	--	--	--	--	--

03/28/12 12:11:26 PM

page 28

Method: 20076010 Sample Name: 600-52210-g-1-f msd Operator: DCL  
 Run Time: 03/28/12 12:07:38  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.479	1.0808	1.0649	1.1112	.50621	1.0802	.53048
SDev	.019	.0008	.0014	.0005	.00036	.0000	.00036
%RSD	.18167	.07425	.13392	.04909	.07092	.00378	.06757

#1	10.492	1.0814	1.0638	1.1116	.50647	1.0802	.53073
#2	10.465	1.0803	1.0659	1.1108	.50596	1.0802	.53022

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	100.44	1.0098	1.0120	1.0257	10.457	.55132	1.0374
SDev	.07	.0009	.0001	.0011	.001	.00084	.0022
%RSD	.07026	.08478	.01264	.10863	.00847	.15248	.21149

#1	100.48	1.0104	1.0121	1.0265	10.458	.55191	1.0358
#2	100.39	1.0092	1.0119	1.0249	10.457	.55072	1.0389

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0498	10.981	1.0873	1.0890	1.0502	13.394	1.0588
SDev	.0058	.010	.0004	.0003	.0002	.011	.0007
%RSD	.55657	.09342	.03783	.02440	.02140	.07870	.06496

#1	1.0457	10.988	1.0876	1.0888	1.0500	13.401	1.0593
#2	1.0540	10.973	1.0870	1.0891	1.0503	13.386	1.0583

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52818	205.61	161.00	.57562	1.1227	1.0375	1.0466
SDev	.00080	.68	.49	.00014	.0092	.0012	.0002
%RSD	.15127	.33120	.30447	.02372	.81943	.11182	.01813

#1	.52874	206.09	161.34	.57572	1.1162	1.0383	1.0468
#2	.52761	205.13	160.65	.57553	1.1292	1.0367	1.0465

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
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file:///c:/tjadata/temp/a032812.TXT

Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0330	1.2614	.99643	1.0579	1.0129	1.0683
SDev	.0006	.0010	.00251	.0020	.0057	.0059
%RSD	.05656	.08067	.25203	.19240	.56502	.55255

#1	1.0334	1.2621	.99466	1.0564	1.0089	1.0641
#2	1.0325	1.2607	.99821	1.0593	1.0170	1.0725

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39250	--	--	--	--	--	--
SDev	71.41779	--	--	--	--	--	--
%RSD	.1819584	--	--	--	--	--	--

Analysis Report

03/28/12 12:11:26 PM

page 29

#1	39300	--	--	--	--	--	--
#2	39199	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52212-g-1-d Operator: DCL  
 Run Time: 03/28/12 12:11:29  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06356	.00174	.00415	.14636	-.00050	.00936	-.00003
SDev	.00100	.00209	.00000	.00048	.00001	.00098	.00007
%RSD	1.5656	119.92	.05767	.32717	2.1349	10.463	271.31

#1	.06427	.00027	.00415	.14670	-.00051	.01005	.00002
#2	.06286	.00322	.00415	.14602	-.00049	.00867	-.00008

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	87.513	.00026	.00002	-.00130	.02292	.00093	.00067
SDev	.365	.00005	.00003	.00057	.00116	.00000	.00028
%RSD	.41730	18.412	134.22	43.598	5.0492	.06068	41.329

#1	87.771	.00030	.00004	-.00090	.02210	.00093	.00048
#2	87.255	.00023	.00000	-.00171	.02373	.00093	.00087

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00207	1.2065	.18798	.00476	.00037	.46524	.67861
SDev	.00358	.0093	.00090	.00098	.00028	.01269	.00653
%RSD	173.24	.76688	.48134	20.629	74.673	2.7271	.96244

#1	.00460	1.2130	.18862	.00545	.00018	.47421	.68323
#2	-.00047	1.1999	.18734	.00407	.00057	.45627	.67399

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00034	194.22	151.97	.14351	.00471	.00065	-.00010
SDev	.00012	.88	.69	.00046	.00300	.00111	.00005
%RSD	35.042	.45244	.45123	.32208	63.767	170.87	46.293

#1	-.00025	194.84	152.45	.14384	.00684	-.00013	-.00007
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file:///c:/tjadata/temp/a032812.TXT

#2	- .00042	193.60	151.48	.14319	.00259	.00143	-.00013
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00103	.00374	.00219	-.00009	-.00218	.00419	
SDev	.00007	.00012	.00148	.00033	.00305	.00385	
%RSD	7.3345	3.3130	67.835	380.28	139.76	91.786	
#1	.00108	.00383	.00114	.00014	-.00003	.00691	
#2	.00097	.00365	.00324	-.00032	-.00434	.00147	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 03/28/12 12:15:17 PM page 30

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39515	--	--	--	--	--	--
SDev	113.1371	--	--	--	--	--	--
%RSD	.2863143	--	--	--	--	--	--
#1	39435	--	--	--	--	--	--
#2	39595	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52215-g-1-e Operator: DCL  
Run Time: 03/28/12 12:15:20  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05581	.00389	.00517	.12011	-.00055	.00965	.00002
SDev	.00108	.00171	.00028	.00035	.00001	.00038	.00000
%RSD	1.9422	43.880	5.5135	.29202	1.5465	3.9748	19.905

#1	.05658	.00269	.00537	.11986	-.00054	.00992	.00002
#2	.05505	.00510	.00497	.12036	-.00055	.00938	.00002

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	89.048	.00050	.00043	-.00106	.00598	.00095	.00103
SDev	.079	.00011	.00022	.00002	.01197	.00001	.00082
%RSD	.08864	23.077	51.673	2.1733	200.16	1.3886	79.241

#1	88.992	.00041	.00027	-.00105	-.00249	.00094	.00161
#2	89.104	.00058	.00059	-.00108	.01445	.00096	.00045

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00062	1.6960	.13511	.00263	.00039	.37183	.27862
SDev	.00017	.0010	.00019	.00037	.00033	.00192	.00013
%RSD	27.978	.06180	.14201	13.922	84.726	.51745	.04732

#1	-.00050	1.6953	.13498	.00289	.00016	.37047	.27853
#2	-.00075	1.6967	.13525	.00238	.00063	.37319	.27872

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00010	190.06	149.74	.15415	.00279	.00138	-.00024
SDev	.00017	.81	.11	.00030	.00229	.00006	.00017



file:///c:/tjadata/temp/a032812.TXT

%RSD	165.54	.42809	.07538	.19288	81.931	4.6293	69.426
#1	-.00022	189.49	149.66	.15394	.00440	.00142	-.00012
#2	.00002	190.64	149.82	.15436	.00117	.00133	-.00036
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00137	.17676	.00142	.00084	-.00234	.00023	
SDev	.00020	.00001	.00011	.00118	.00009	.00031	
%RSD	14.235	.00810	7.6030	139.89	3.8265	132.91	
#1	.00151	.17675	.00150	.00167	-.00240	.00045	

Analysis Report

03/28/12 12:19:08 PM

page 31

#2	.00124	.17677	.00135	.00001	-.00227	.00001	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39306	--	--	--	--	--	--
SDev	33.23402	--	--	--	--	--	--
%RSD	.0845531	--	--	--	--	--	--
#1	39329	--	--	--	--	--	--
#2	39282	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52350-a-1-c Operator: DCL  
Run Time: 03/28/12 12:19:11  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11777	.00220	.00337	.03936	-.00051	.11510	.00606
SDev	.00062	.00130	.00029	.00010	.00001	.00039	.00001
%RSD	.52754	59.031	8.4762	.25253	1.1580	.33773	.18150
#1	.11821	.00128	.00317	.03943	-.00051	.11538	.00606
#2	.11733	.00311	.00357	.03929	-.00050	.11483	.00607
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.303	.03055	.01387	.00345	2.3997	.01676	.00181
SDev	.034	.00006	.00018	.00012	.0062	.00004	.00114
%RSD	.27311	.18610	1.2698	3.4219	.25842	.24943	62.978
#1	12.327	.03051	.01374	.00337	2.4040	.01678	.00100
#2	12.279	.03059	.01399	.00354	2.3953	.01673	.00261
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00246	1.2793	.22688	.00194	.09348	1.6492	.18821
SDev	.00245	.0003	.00072	.00000	.00044	.0066	.00063
%RSD	99.475	.02595	.31939	.05321	.47299	.39734	.33653
#1	.00073	1.2791	.22739	.00194	.09380	1.6445	.18866
#2	.00419	1.2795	.22636	.00194	.09317	1.6538	.18776
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm





file:///c:/tjadata/temp/a032812.TXT

Avge	-.00008	198.98	154.33	.24006	-.00113	-.00016	.00024
SDev	.00057	.19	.28	.00080	.00226	.00051	.00014
%RSD	699.11	.09508	.18096	.33109	200.39	312.03	57.197

#1	-.00049	199.11	154.53	.24063	-.00272	-.00052	.00034
#2	.00032	198.84	154.14	.23950	.00047	.00020	.00015

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00041	4.1940	.00043	.00249	-.00352	.00545	

Analysis Report 03/28/12 12:22:59 PM page 32

SDev	.00038	.0114	.00038	.00152	.00477	.00128	
%RSD	93.198	.27244	87.077	60.899	135.56	23.520	

#1	.00014	4.2020	.00017	.00142	-.00689	.00454	
#2	.00068	4.1859	.00070	.00357	-.00015	.00635	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39510	--	--	--	--	--	--
SDev	31.81980	--	--	--	--	--	--
%RSD	.0805351	--	--	--	--	--	--

#1	39533	--	--	--	--	--	--
#2	39488	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52350-a-1-d ms Operator: DCL  
Run Time: 03/28/12 12:23:02  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.500	1.0784	1.0672	1.1086	.50558	1.1902	.54622
SDev	.022	.0029	.0039	.0006	.00045	.0001	.00059
%RSD	.21192	.26607	.36706	.05074	.08828	.00472	.10756

#1	10.516	1.0805	1.0699	1.1090	.50589	1.1902	.54663
#2	10.484	1.0764	1.0644	1.1082	.50526	1.1901	.54580

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	22.291	1.0462	1.0338	1.0301	12.897	.56760	1.0466
SDev	.031	.0013	.0006	.0016	.029	.00090	.0026
%RSD	.14056	.12294	.05444	.15657	.22106	.15810	.24413

#1	22.313	1.0471	1.0342	1.0312	12.917	.56823	1.0484
#2	22.269	1.0453	1.0334	1.0289	12.877	.56696	1.0448

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0469	11.413	1.2414	1.0881	1.1530	14.602	1.1708
SDev	.0010	.021	.0015	.0079	.0019	.034	.0010
%RSD	.09963	.18265	.12438	.72887	.16574	.23234	.08655

#1	1.0476	11.428	1.2424	1.0825	1.1543	14.626	1.1715
#2	1.0461	11.398	1.2403	1.0937	1.1516	14.578	1.1701



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Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.52884	209.47	162.74	.78032	1.1305	1.0412	1.0503
SDev	.00064	.78	.45	.00061	.0057	.0025	.0012
%RSD	.12098	.37372	.27840	.07771	.50266	.24414	.11278
#1	.52929	210.02	163.06	.78074	1.1265	1.0430	1.0511
#2	.52839	208.91	162.42	.77989	1.1345	1.0394	1.0495

Analysis Report

03/28/12 12:26:49 PM

page 33

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	1.0323	5.0674	1.0023	1.0688	1.0139	1.0634	
SDev	.0019	.0071	.0017	.0030	.0024	.0004	
%RSD	.18821	.14066	.17399	.27701	.23737	.03395	
#1	1.0337	5.0724	1.0035	1.0708	1.0156	1.0636	
#2	1.0310	5.0623	1.0011	1.0667	1.0122	1.0631	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	39534	--	--	--	--	--	--
SDev	65.76093	--	--	--	--	--	--
%RSD	.1663423	--	--	--	--	--	--
#1	39487	--	--	--	--	--	--
#2	39580	--	--	--	--	--	--

Method: 20076010 Sample Name: lb 600-75712/1-b Operator: DCL  
Run Time: 03/28/12 12:26:52  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.05424	-.00048	.00275	.00824	-.00050	.00677	-.00016
SDev	.00039	.00063	.00059	.00009	.00001	.00112	.00001
%RSD	.72260	132.37	21.535	1.0280	1.1533	16.615	7.3735
#1	.05452	-.00003	.00317	.00830	-.00049	.00757	-.00017
#2	.05397	-.00092	.00233	.00818	-.00050	.00598	-.00015
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.08936	.00076	-.00029	-.00124	.04195	.00047	.00084
SDev	.00021	.00001	.00074	.00029	.00953	.00003	.00104
%RSD	.23231	1.8119	258.83	23.636	22.719	7.5424	123.96
#1	.08922	.00075	-.00081	-.00103	.03521	.00049	.00158
#2	.08951	.00077	.00024	-.00145	.04868	.00044	.00010
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00377	.03368	.00048	.00367	-.00045	.16260	.01153
SDev	.00187	.00287	.00002	.00155	.00060	.02511	.00146
%RSD	49.450	8.5266	4.3288	42.094	132.09	15.445	12.645
#1	.00245	.03572	.00050	.00477	-.00087	.18036	.01256



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#2	.00509	.03165	.00047	.00258	-.00003	.14484	.01050
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00041	.67896	.71309	.00031	.00541	.00008	.00049
SDev	.00038	.18498	.00597	.00003	.00435	.00039	.00002
Analysis Report				03/28/12 12:30:40 PM		page 34	
%RSD	92.403	27.245	.83684	8.2121	80.413	504.29	3.3219
#1	-.00068	.54816	.71731	.00029	.00849	.00035	.00047
#2	-.00014	.80976	.70887	.00032	.00234	-.00020	.00050
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00065	.00456	-.00030	.00141	-.00144	.00638	
SDev	.00008	.00004	.00088	.00112	.01159	.00300	
%RSD	12.187	.94359	298.10	79.636	806.81	47.015	
#1	.00071	.00453	.00033	.00220	-.00964	.00850	
#2	.00059	.00459	-.00092	.00062	.00676	.00426	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39983	--	--	--	--	--	--
SDev	165.4630	--	--	--	--	--	--
%RSD	.4138333	--	--	--	--	--	--
#1	39866	--	--	--	--	--	--
#2	40100	--	--	--	--	--	--
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Method:	20076010	Sample Name:	600-52214-g-1-d	Operator:	DCL		
Run Time:	03/28/12 12:30:43						
Comment:	TRACE 61E						
Mode:	CONC	Corr. Factor:	1				
Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15246	.00033	.00528	.13924	-.00044	.00864	.00027
SDev	.00030	.00003	.00184	.00055	.00001	.00011	.00013
%RSD	.19439	9.4270	34.940	.39429	3.1777	1.2622	49.221
#1	.15225	.00031	.00397	.13963	-.00044	.00871	.00018
#2	.15267	.00036	.00658	.13885	-.00043	.00856	.00037
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	172.48	.00030	.00285	.00018	.25990	.00097	.05599
SDev	.56	.00000	.00006	.00001	.00049	.00001	.00014
%RSD	.32646	.04218	2.0934	6.3638	.18764	1.0499	.25026
#1	172.88	.00030	.00289	.00018	.25955	.00096	.05609
#2	172.08	.00030	.00281	.00017	.26024	.00098	.05589
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00023	2.2464	.47757	.00173	.00317	1.0863	.92404
SDev	.00120	.0067	.00190	.00047	.00044	.0022	.00345
%RSD	511.00	.29656	.39776	27.420	13.726	.20105	.37313

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#1	-.00061	2.2511	.47892	.00139	.00286	1.0878	.92648
#2	.00108	2.2417	.47623	.00206	.00348	1.0847	.92160

Analysis Report

03/28/12 12:34:31 PM

page 35

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00008	5.9265	5.7082	.28329	.00108	-.00041	-.00087
SDev	.00000	.2026	.0382	.00124	.00204	.00021	.00000
%RSD	.89297	3.4187	.66955	.43835	188.65	50.669	.30941

#1	-.00008	6.0697	5.7352	.28417	.00252	-.00056	-.00087
#2	-.00008	5.7832	5.6812	.28241	-.00036	-.00026	-.00087

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00068	.40670	.05442	.05678	-.00052	.00061	
SDev	.00000	.00164	.00162	.00060	.00166	.00096	
%RSD	.56804	.40273	2.9764	1.0561	320.80	158.12	

#1	.00068	.40786	.05556	.05636	-.00169	-.00007	
#2	.00068	.40554	.05327	.05720	.00066	.00129	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39413	--	--	--	--	--	--
SDev	72.12489	--	--	--	--	--	--
%RSD	.1829977	--	--	--	--	--	--

#1	39362	--	--	--	--	--	--
#2	39464	--	--	--	--	--	--

Method: 20076010 Sample Name: PDS 600-52208-g-1-d Operator: DCL

Run Time: 03/28/12 12:34:34

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.067	1.0206	1.0474	1.0923	.48425	1.0614	.52441
SDev	.011	.0088	.0048	.0012	.00059	.0020	.00093
%RSD	.11056	.86001	.45558	.10549	.12220	.18774	.17794

#1	10.074	1.0144	1.0508	1.0931	.48467	1.0628	.52507
#2	10.059	1.0268	1.0440	1.0915	.48383	1.0600	.52375

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	102.23	.98510	.97723	.98425	10.195	1.0907	1.0199
SDev	.12	.00154	.00097	.00145	.020	.0015	.0031
%RSD	.11739	.15629	.09965	.14782	.20064	.14176	.29972

#1	102.31	.98619	.97792	.98528	10.209	1.0918	1.0221
#2	102.14	.98401	.97654	.98322	10.180	1.0896	1.0178

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0208	10.615	1.0782	1.0316	1.0266	13.485	3.1531



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SDev	.0005	.015	.0016	.0002	.0022	.026	.0039
%RSD	.04923	.14554	.15044	.01554	.21715	.19639	.12348
Analysis Report				03/28/12 12:38:22 PM		page 36	
#1	1.0204	10.626	1.0794	1.0315	1.0282	13.504	3.1558
#2	1.0212	10.604	1.0771	1.0317	1.0250	13.467	3.1503
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50833	202.20	160.07	.65876	1.1000	1.0104	1.0126
SDev	.00033	.07	.23	.00060	.0036	.0024	.0008
%RSD	.06579	.03404	.14415	.09043	.32686	.24185	.08273
#1	.50809	202.15	160.23	.65918	1.0975	1.0121	1.0132
#2	.50857	202.25	159.91	.65834	1.1026	1.0086	1.0121
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.99540	1.0756	.97485	1.0425	.98226	1.0401	
SDev	.00132	.0015	.00453	.0023	.00633	.0039	
%RSD	.13295	.13812	.46480	.22253	.64480	.37696	
#1	.99634	1.0766	.97806	1.0441	.98674	1.0373	
#2	.99447	1.0745	.97165	1.0408	.97778	1.0428	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39024	--	--	--	--	--	--
SDev	42.42641	--	--	--	--	--	--
%RSD	.1087188	--	--	--	--	--	--
#1	39054	--	--	--	--	--	--
#2	38994	--	--	--	--	--	--

Method: 20076010 Sample Name: SD 600-52208-g-1-d@5 Operator: DCL  
Run Time: 03/28/12 12:38:25  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05395	.00895	.00366	.01114	-.00047	.00291	-.00021
SDev	.00276	.00546	.00038	.00003	.00001	.00133	.00007
%RSD	5.1212	60.995	10.318	.23174	2.2135	45.855	36.124
#1	.05590	.01281	.00393	.01116	-.00046	.00385	-.00015
#2	.05199	.00509	.00340	.01112	-.00048	.00196	-.00026
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	18.392	.00077	-.00093	-.00108	-.02134	.00067	.00072
SDev	.082	.00042	.00015	.00029	.01005	.00020	.00042
%RSD	.44783	54.235	16.035	27.415	47.119	30.783	58.854
#1	18.451	.00107	-.00103	-.00087	-.01423	.00081	.00102
#2	18.334	.00048	-.00082	-.00128	-.02845	.00052	.00042
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881



file:///c:/tjadata/temp/a032812.TXT

Analysis Report

03/28/12 12:42:12 PM

page 37

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00338	.17567	.01643	.00391	-.00061	.18991	.39279
SDev	.00436	.01607	.00005	.00212	.00034	.09313	.00201
%RSD	128.99	9.1455	.31648	54.326	55.309	49.038	.51249

#1	.00647	.18703	.01646	.00541	-.00085	.25576	.39421
#2	.00030	.16431	.01639	.00241	-.00037	.12406	.39137

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00075	32.284	29.251	.02752	-.00076	-.00046	.00037
SDev	.00015	.023	.088	.00000	.00096	.00061	.00018
%RSD	20.354	.07210	.30253	.01148	125.32	133.55	48.443

#1	-.00064	32.301	29.188	.02752	-.00144	-.00089	.00050
#2	-.00086	32.268	29.313	.02752	-.00009	-.00003	.00025

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00074	.00562	-.00368	.00291	-.00350	.00683
SDev	.00004	.00011	.00327	.00100	.00831	.00239
%RSD	5.1828	1.9831	88.899	34.351	237.23	35.010

#1	.00071	.00555	-.00137	.00221	.00237	.00852
#2	.00077	.00570	-.00599	.00362	-.00938	.00514

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	40346	--	--	--	--	--	--
SDev	407.2935	--	--	--	--	--	--
%RSD	1.009502	--	--	--	--	--	--

#1	40058	--	--	--	--	--	--
#2	40634	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met0312ccv\_00005 Operator: DCL

Run Time: 03/28/12 12:42:16

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.4654	.51393	.50931	.51505	.48184	.50500	.52734
SDev	.0037	.00227	.00108	.00143	.00220	.00135	.00229
%RSD	.15083	.44115	.21237	.27839	.45752	.26713	.43486

#1	2.4680	.51554	.51008	.51606	.48340	.50596	.52896
#2	2.4628	.51233	.50855	.51403	.48028	.50405	.52572

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.507	.48667	.48725	.48148	2.5876	.47460	.50350
SDev	.059	.00216	.00243	.00094	.0121	.00153	.00426
%RSD	.47397	.44302	.49884	.19513	.46867	.32352	.84704

Analysis Report

03/28/12 12:46:03 PM

page 38



file:///c:/tjadata/temp/a032812.TXT



#1	12.549	.48819	.48897	.48214	2.5962	.47568	.50651
#2	12.465	.48514	.48553	.48081	2.5791	.47351	.50048
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49967	4.9053	.48856	.50841	.51324	12.536	.93148
SDev	.00052	.0202	.00177	.00114	.00358	.061	.00194
%RSD	.10392	.41150	.36118	.22364	.69761	.48265	.20838

#1	.49931	4.9195	.48981	.50922	.51577	12.579	.93285
#2	.50004	4.8910	.48731	.50761	.51071	12.494	.93011

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.24740	12.732	12.256	.25962	.53953	.49935	.50646
SDev	.00027	.072	.025	.00082	.00595	.00197	.00213
%RSD	.10835	.56910	.20424	.31702	1.1029	.39457	.42131

#1	.24759	12.681	12.273	.26020	.53533	.50075	.50796
#2	.24721	12.783	12.238	.25904	.54374	.49796	.50495

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49422	.52330	.47817	.51616	.47940	.50987
SDev	.00198	.00227	.00538	.00370	.00447	.00301
%RSD	.39991	.43318	1.1260	.71784	.93181	.59079

#1	.49561	.52490	.48197	.51878	.48256	.50774
#2	.49282	.52170	.47436	.51354	.47624	.51200

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	40195	--	--	--	--	--	--
SDev	120.2082	--	--	--	--	--	--
%RSD	.2990625	--	--	--	--	--	--
#1	40110	--	--	--	--	--	--
#2	40280	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL  
 Run Time: 03/28/12 12:46:07  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05600	.00199	.00281	.00011	-.00054	-.00297	-.00002
SDev	.00372	.00364	.00059	.00016	.00001	.00145	.00010
%RSD	6.6417	182.79	21.088	146.85	2.4205	48.746	502.80
#1	.05862	.00457	.00322	.00023	-.00053	-.00195	.00005
#2	.05337	-.00058	.00239	-.00000	-.00055	-.00399	-.00009

Analysis Report 03/28/12 12:49:55 PM page 39

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
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file:///c:/tjadata/temp/a032812.TXT

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .00109	.00045	- .00016	- .00209	- .00683	.00023	.00075
SDev	.00003	.00051	.00019	.00080	.01853	.00005	.00032
%RSD	2.6810	111.46	116.59	38.069	271.41	19.344	43.510
#1	- .00111	.00081	- .00003	- .00153	.00628	.00026	.00097
#2	- .00107	.00010	- .00029	- .00265	- .01993	.00020	.00052
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00095	.00690	.00015	.00258	- .00028	.03487	- .00610
SDev	.00194	.00464	.00008	.00162	.00021	.01946	.00378
%RSD	204.98	67.257	51.701	62.998	77.157	55.815	61.998
#1	.00232	.01018	.00020	.00373	- .00013	.04863	- .00342
#2	- .00043	.00362	.00009	.00143	- .00043	.02111	- .00877
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .00015	- .06636	.02057	.00005	.00384	.00133	.00032
SDev	.00049	.07062	.00322	.00007	.00325	.00007	.00036
%RSD	317.03	106.42	15.666	127.49	84.574	5.3781	112.13
#1	.00019	- .11629	.02285	.00010	.00613	.00128	.00057
#2	- .00050	- .01642	.01829	.00001	.00154	.00138	.00007
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00042	.00135	- .00185	.00204	- .00928	.00606	
SDev	.00089	.00013	.00107	.00102	.00115	.00349	
%RSD	213.37	9.8661	57.601	49.891	12.353	57.594	
#1	.00105	.00144	- .00260	.00276	- .01009	.00853	
#2	- .00021	.00126	- .00110	.00132	- .00847	.00359	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	40514	--	--	--	--	--	--
SDev	101.1163	--	--	--	--	--	--
%RSD	.2495866	--	--	--	--	--	--
#1	40442	--	--	--	--	--	--
#2	40585	--	--	--	--	--	--

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16

Analysis Report

03/28/12 01:13:09 PM

page 1

Method: 20076010 Sample Name: mb 600-75814/1-a Operator: DCL  
 Run Time: 03/28/12 13:09:22  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06438	.00204	.00316	.00033	- .00065	- .00563	- .00016
SDev	.00093	.00221	.00114	.00001	.00001	.00002	.00001
%RSD	1.4471	108.47	36.209	1.9131	1.1197	.37318	7.7656
#1	.06504	.00047	.00235	.00034	- .00066	- .00562	- .00016
#2	.06372	.00360	.00397	.00033	- .00065	- .00565	- .00017



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Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21977	.00096	-.00050	.00165	.03382	.00001	.00113
SDev	.01667	.00002	.00008	.00001	.00133	.00002	.00067
%RSD	7.5874	1.8483	16.558	.44410	3.9276	163.55	58.695

#1	.23157	.00097	-.00056	.00164	.03289	.00002	.00066
#2	.20798	.00094	-.00044	.00165	.03476	-.00000	.00160

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00115	.00251	.00050	.00051	-.00032	.02538	-.00325
SDev	.00076	.00154	.00010	.00101	.00047	.00782	.00005
%RSD	65.961	61.247	18.861	197.16	145.92	30.806	1.6696

#1	.00169	.00360	.00057	.00122	-.00065	.03091	-.00329
#2	.00062	.00142	.00044	-.00020	.00001	.01986	-.00322

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00015	.06050	.03960	.00017	-.00261	.02851	.00031
SDev	.00002	.02560	.00090	.00002	.00171	.00147	.00006
%RSD	14.355	42.322	2.2673	11.073	65.544	5.1678	19.246

#1	-.00014	.04239	.04023	.00016	-.00383	.02955	.00027
#2	-.00017	.07860	.03896	.00018	-.00140	.02747	.00035

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00048	.03353	.00263	.00039	-.00669	.00508
SDev	.00011	.00137	.00007	.00096	.00265	.00018
%RSD	23.658	4.0778	2.8526	248.23	39.577	3.6103

#1	.00040	.03449	.00257	-.00029	-.00482	.00495
#2	.00056	.03256	.00268	.00107	-.00857	.00521

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	40606	--	--	--	--	--	--
SDev	105.3589	--	--	--	--	--	--
%RSD	.2594696	--	--	--	--	--	--

Analysis Report

03/28/12 01:13:09 PM

page 2

#1	40531	--	--	--	--	--	--
#2	40680	--	--	--	--	--	--

Method: 20076010 Sample Name: lcs 600-75814/2-a Operator: DCL  
 Run Time: 03/28/12 13:13:12  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	81.587	.88226	1.4794	2.9224	1.5733	.93041	.81627
SDev	.798	.01182	.0122	.0238	.0092	.00598	.00485
%RSD	.97790	1.3394	.82142	.81287	.58664	.64253	.59409

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#1	82.151	.87390	1.4880	2.9392	1.5798	.93463	.81970
#2	81.023	.89062	1.4708	2.9056	1.5668	.92618	.81285
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	102.61	1.0765	1.5094	1.1457	170.98	.08672	1.5339
SDev	.67	.0084	.0102	.0113	1.30	.00080	.0062
%RSD	.65730	.78036	.67338	.98560	.75946	.92592	.40532
#1	103.09	1.0825	1.5166	1.1537	171.90	.08729	1.5383
#2	102.13	1.0706	1.5022	1.1377	170.07	.08615	1.5295
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.1596	40.911	6.0081	1.0677	1.4658	49.224	2.4081
SDev	.0097	.275	.0447	.0022	.0141	.323	.0175
%RSD	.44709	.67294	.74388	.20315	.96416	.65673	.72481
#1	2.1664	41.106	6.0397	1.0692	1.4758	49.453	2.4204
#2	2.1527	40.717	5.9765	1.0661	1.4558	48.996	2.3958
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49796	3.8076	7.1818	2.8155	1.8633	1.6328	3.6212
SDev	.00402	.0461	.0772	.0255	.0099	.0133	.0264
%RSD	.80720	1.2106	1.0756	.90652	.53281	.81356	.72982
#1	.50080	3.7751	7.2364	2.8336	1.8703	1.6422	3.6398
#2	.49512	3.8402	7.1272	2.7975	1.8563	1.6234	3.6025
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.64457	2.3270	1.4422	1.5797	2.0604	2.2091	
SDev	.00483	.0119	.0035	.0111	.0026	.0158	
%RSD	.75010	.51147	.24212	.70085	.12724	.71494	
#1	.64799	2.3354	1.4397	1.5875	2.0586	2.2203	
#2	.64115	2.3186	1.4446	1.5719	2.0623	2.1979	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 03/28/12 01:17:00 PM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	43188	--	--	--	--	--	--
SDev	204.3539	--	--	--	--	--	--
%RSD	.4731783	--	--	--	--	--	--
#1	43043	--	--	--	--	--	--
#2	43332	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52645-c-1-a Operator: DCL  
Run Time: 03/28/12 13:17:03  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

file:///c:/tjadata/temp/a032812.TXT

Avge	200.37	.02385	.39062	25.384	.00534	7.4703	.00217
SDev	.09	.00669	.00028	.010	.00001	.0069	.00004
%RSD	.04290	28.041	.07047	.04023	.25388	.09268	1.9247

#1	200.31	.02858	.39082	25.392	.00535	7.4654	.00214
#2	200.43	.01912	.39043	25.377	.00533	7.4752	.00220

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	209.74	.16449	.09994	.08852	205.03	.38566	.14986
SDev	.05	.00013	.00030	.00034	.04	.00028	.00048
%RSD	.02440	.08070	.29780	.38867	.01753	.07384	.32224

#1	209.77	.16459	.10015	.08876	205.00	.38546	.14952
#2	209.70	.16440	.09973	.08827	205.05	.38586	.15020

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00727	476.09	4.6733	.00558	.07844	12.535	1.8611
SDev	.00210	.19	.0021	.00127	.00077	.009	.0019
%RSD	28.898	.03972	.04527	22.693	.98700	.07310	.09970

#1	-.00579	475.95	4.6748	.00647	.07790	12.541	1.8597
#2	-.00876	476.22	4.6718	.00468	.07899	12.528	1.8624

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00201	70.460	69.097	9.1414	.00788	.03692	2.4493
SDev	.00030	.226	.054	.0099	.00501	.00003	.0025
%RSD	15.036	.32069	.07744	.10840	63.550	.09280	.10178

#1	-.00180	70.300	69.059	9.1484	.01142	.03689	2.4511
#2	-.00222	70.620	69.134	9.1344	.00434	.03694	2.4476

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.32906	1.7864	.12965	.15996	-.01426	-.00378	
SDev	.00028	.0024	.00034	.00090	.00038	.00334	
%RSD	.08639	.13479	.26454	.56003	2.6416	88.351	

#1	.32926	1.7847	.12990	.15933	-.01452	-.00142	
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Analysis Report

03/28/12 01:20:51 PM

page 4

#2	.32886	1.7881	.12941	.16059	-.01399	-.00614	
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IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40050	--	--	--	--	--	--
SDev	86.97414	--	--	--	--	--	--
%RSD	.2171612	--	--	--	--	--	--

#1	39989	--	--	--	--	--	--
#2	40112	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52645-c-2-a Operator: DCL  
 Run Time: 03/28/12 13:20:54  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

file:///c:/tjadata/temp/a032812.TXT

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	179.94	.01170	.19599	4.4949	.00832	1.2179	-.00777
SDev	.01	.00227	.00223	.0077	.00003	.0042	.00025
%RSD	.00699	19.390	1.1388	.17032	.36047	.34154	3.2123
#1	179.93	.01331	.19441	4.5003	.00834	1.2208	-.00759
#2	179.94	.01010	.19757	4.4895	.00830	1.2149	-.00794
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	26.076	.18739	.03150	.05901	222.83	.42068	.03589
SDev	.022	.00090	.00028	.00054	.64	.00030	.00031
%RSD	.08483	.47886	.88243	.91492	.28629	.07188	.86755
#1	26.091	.18802	.03170	.05939	223.28	.42046	.03567
#2	26.060	.18676	.03130	.05863	222.38	.42089	.03611
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00197	71.145	.28933	.00597	.06698	13.470	3.0019
SDev	.00095	.309	.00114	.00099	.00044	.054	.0048
%RSD	48.331	.43493	.39298	16.520	.65851	.40095	.15880
#1	-.00130	71.364	.29014	.00667	.06729	13.508	3.0052
#2	-.00264	70.926	.28853	.00528	.06667	13.432	2.9985
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00248	46.940	44.669	3.0826	.00620	.03175	.77480
SDev	.00005	.186	.070	.0012	.00331	.00087	.00327
%RSD	1.9734	.39582	.15581	.04048	53.323	2.7278	.42216
#1	-.00245	46.809	44.620	3.0835	.00854	.03113	.77711
#2	-.00252	47.071	44.718	3.0817	.00386	.03236	.77248
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	.47035	.07702	.02308	.04229	-.01189	.00299	

Analysis Report

03/28/12 01:24:42 PM

page 5

SDev	.00201	.00469	.00145	.00026	.00385	.00335	
%RSD	.42740	6.0859	6.2966	.61385	32.382	112.04	
#1	.47177	.07370	.02205	.04247	-.01461	.00536	
#2	.46893	.08033	.02411	.04211	-.00917	.00062	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	43642	--	--	--	--	--	--
SDev	250.3158	--	--	--	--	--	--
%RSD	.5735663	--	--	--	--	--	--
#1	43465	--	--	--	--	--	--
#2	43819	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52645-c-3-a

Operator: DCL

Run Time: 03/28/12 13:24:45

Comment: TRACE 61E

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Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	136.59	.00825	.04706	.95761	.00655	.35116	-.00609
SDev	1.77	.00074	.00049	.00995	.00004	.00283	.00014
%RSD	1.2966	8.9134	1.0403	1.0386	.65525	.80546	2.3751

#1	135.34	.00877	.04741	.95058	.00652	.34916	-.00599
#2	137.84	.00773	.04672	.96465	.00658	.35316	-.00619

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.7019	.15946	.02718	.05627	167.83	.04807	.08611
SDev	.0583	.00115	.00016	.00048	1.90	.00061	.00032
%RSD	.86939	.71993	.60810	.85561	1.1321	1.2649	.36608

#1	6.6607	.15865	.02706	.05593	166.48	.04764	.08589
#2	6.7431	.16028	.02730	.05661	169.17	.04850	.08634

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00080	4.7100	.09203	.00475	.04873	6.8637	3.1786
SDev	.00297	.0492	.00098	.00120	.00077	.0893	.0330
%RSD	369.08	1.0452	1.0615	25.210	1.5792	1.3015	1.0394

#1	.00129	4.6752	.09134	.00390	.04818	6.8005	3.1553
#2	-.00290	4.7448	.09272	.00559	.04927	6.9268	3.2020

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00188	49.828	45.910	.65545	.00551	.03336	.33498
SDev	.00029	.896	.580	.00701	.00203	.00058	.00317
%RSD	15.691	1.7992	1.2632	1.0699	36.845	1.7476	.94651

#1	-.00209	49.194	45.500	.65049	.00694	.03377	.33273
#2	-.00167	50.461	46.320	.66041	.00407	.03294	.33722

Analysis Report

03/28/12 01:28:33 PM

page 6

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.38734	.06559	.07665	.09085	-.01035	.00397
SDev	.00346	.00030	.00079	.00008	.00260	.00316
%RSD	.89390	.45016	1.0358	.08355	25.065	79.475

#1	.38489	.06538	.07609	.09079	-.00852	.00620
#2	.38979	.06579	.07721	.09090	-.01219	.00174

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	42918	--	--	--	--	--	--
SDev	265.1650	--	--	--	--	--	--
%RSD	.6178483	--	--	--	--	--	--

#1	43105	--	--	--	--	--	--
#2	42730	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52645-c-4-a Operator: DCL

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Run Time: 03/28/12 13:28:36

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	168.38	.00644	.14470	1.3065	.00884	.11192	-.01392
SDev	.73	.00064	.00108	.0046	.00003	.00089	.00016
%RSD	.43579	9.8525	.74769	.35125	.29419	.79207	1.1483

#1	168.90	.00599	.14546	1.3098	.00885	.11254	-.01404
#2	167.86	.00689	.14393	1.3033	.00882	.11129	-.01381

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	21.565	.24613	.02276	.08886	385.76	.07157	.22337
SDev	.108	.00113	.00029	.00069	1.41	.00037	.00057
%RSD	.50099	.45948	1.2836	.77458	.36625	.52169	.25619

#1	21.641	.24693	.02297	.08935	386.76	.07183	.22378
#2	21.489	.24533	.02256	.08838	384.76	.07130	.22297

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00028	5.7042	.66591	.00644	.04817	5.2268	2.7427
SDev	.00110	.0374	.00291	.00052	.00028	.0723	.0114
%RSD	392.62	.65599	.43703	8.0380	.58283	1.3826	.41604

#1	-.00050	5.7307	.66796	.00681	.04837	5.2779	2.7508
#2	.00105	5.6778	.66385	.00607	.04797	5.1757	2.7347

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00297	38.671	36.507	.80553	.00817	.03240	.44676
SDev	.00041	.157	.150	.00299	.00299	.00051	.00187

Analysis Report

03/28/12 01:32:24 PM

page 7

%RSD	13.819	.40534	.41088	.37110	36.594	1.5684	.41824
#1	-.00326	38.782	36.614	.80764	.00606	.03204	.44808
#2	-.00268	38.560	36.401	.80341	.01029	.03276	.44543

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.66366	.08468	.20089	.23461	-.01682	.00883
SDev	.00324	.00065	.00300	.00064	.00117	.00223
%RSD	.48800	.77353	1.4911	.27253	6.9746	25.257

#1	.66595	.08514	.20301	.23416	-.01599	.00725
#2	.66137	.08422	.19878	.23507	-.01765	.01040

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	42414	--	--	--	--	--	--
SDev	408.7077	--	--	--	--	--	--
%RSD	.9636151	--	--	--	--	--	--
#1	42125	--	--	--	--	--	--
#2	42703	--	--	--	--	--	--

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 Method: 20076010 Sample Name: 600-52645-c-4-b du Operator: DCL  
 Run Time: 03/28/12 13:32:27  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	160.20	.00844	.20237	1.1749	.00865	.09798	-.01361
SDev	2.53	.00002	.00335	.0199	.00012	.00122	.00007
%RSD	1.5804	.26667	1.6536	1.6979	1.4295	1.2498	.49598

#1	161.99	.00842	.20474	1.1890	.00873	.09885	-.01357
#2	158.41	.00846	.20001	1.1608	.00856	.09712	-.01366

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	16.913	.25718	.02055	.07753	374.57	.05873	.14338
SDev	.282	.00409	.00030	.00109	6.31	.00098	.00111
%RSD	1.6669	1.5907	1.4443	1.4098	1.6837	1.6745	.77686

#1	17.112	.26007	.02076	.07830	379.03	.05942	.14417
#2	16.713	.25428	.02034	.07676	370.11	.05803	.14260

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00160	4.8849	.40925	.00848	.04485	4.4671	2.8776
SDev	.00084	.0927	.00700	.00077	.00029	.1196	.0467
%RSD	52.277	1.8984	1.7111	9.1398	.63710	2.6768	1.6229

#1	-.00220	4.9504	.41420	.00903	.04505	4.5516	2.9107
#2	-.00101	4.8193	.40429	.00793	.04465	4.3825	2.8446

Analysis Report

03/28/12 01:36:16 PM

page 8

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00273	36.014	34.120	.75869	.01124	.03455	.44917
SDev	.00047	.530	.488	.01235	.00540	.00137	.00759
%RSD	17.106	1.4715	1.4289	1.6281	48.043	3.9570	1.6900

#1	-.00306	36.389	34.464	.76742	.01506	.03552	.45454
#2	-.00240	35.639	33.775	.74995	.00742	.03358	.44380

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.84598	.07279	.12646	.15185	-.01587	.00553
SDev	.01444	.00045	.00011	.00162	.00451	.00351
%RSD	1.7066	.62258	.08416	1.0653	28.417	63.521

#1	.85619	.07311	.12654	.15299	-.01268	.00305
#2	.83577	.07247	.12639	.15070	-.01905	.00801

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	42616	--	--	--	--	--	--
SDev	628.6179	--	--	--	--	--	--
%RSD	1.475092	--	--	--	--	--	--

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#1	42171	--	--	--	--	--	--
#2	43060	--	--	--	--	--	--
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Method:	20076010	Sample Name:	600-52645-c-4-c ms	Operator:	DCL		
Run Time:	03/28/12 13:36:19						
Comment:	TRACE 61E						
Mode:	CONC	Corr. Factor:	1				
Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	216.27	.35095	1.0908	2.1997	.47321	.80296	.50121
SDev	1.48	.00753	.0033	.0132	.00257	.00583	.00306
%RSD	.68244	2.1462	.29989	.60219	.54270	.72634	.61055
#1	215.22	.34563	1.0885	2.1903	.47139	.79884	.49905
#2	217.31	.35628	1.0931	2.2090	.47502	.80709	.50337
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.907	1.2840	.97956	1.0464	323.83	.60797	1.1079
SDev	.145	.0074	.00408	.0068	2.01	.00419	.0076
%RSD	.58172	.57909	.41641	.64611	.61967	.68914	.68322
#1	24.805	1.2787	.97667	1.0416	322.41	.60501	1.1026
#2	25.010	1.2892	.98244	1.0512	325.25	.61094	1.1133
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.88103	16.005	1.3768	.93722	1.0809	17.637	3.4142
SDev	.00498	.093	.0079	.00719	.0052	.117	.0222
%RSD	.56545	.57838	.57406	.76722	.47812	.66257	.64894
Analysis Report		03/28/12 01:40:07 PM				page 9	
#1	.87751	15.939	1.3712	.93214	1.0773	17.555	3.3985
#2	.88456	16.070	1.3824	.94230	1.0846	17.720	3.4299
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49376	46.754	44.496	1.2423	1.0770	.92838	.85938
SDev	.00293	.419	.319	.0075	.0105	.00714	.00566
%RSD	.59271	.89653	.71706	.60238	.97153	.76956	.65880
#1	.49170	46.458	44.270	1.2370	1.0696	.92333	.85538
#2	.49583	47.050	44.722	1.2476	1.0844	.93343	.86338
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.5380	1.1712	1.0359	1.1439	.83317	.90497	
SDev	.0093	.0219	.0043	.0092	.00055	.00775	
%RSD	.60466	1.8685	.41891	.80289	.06621	.85623	
#1	1.5314	1.1557	1.0329	1.1374	.83356	.89949	
#2	1.5445	1.1866	1.0390	1.1504	.83278	.91044	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	42051	--	--	--	--	--	--
SDev	101.8234	--	--	--	--	--	--





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%RSD	.2421426	--	--	--	--	--	--
#1	42123	--	--	--	--	--	--
#2	41979	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52645-c-4-d msd Operator: DCL  
 Run Time: 03/28/12 13:40:10  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	217.38	.37330	1.1676	2.1042	.46307	.79176	.48271
SDev	.74	.00048	.0066	.0084	.00216	.00166	.00194
%RSD	.33918	.12799	.56642	.39908	.46716	.20925	.40230

#1	217.90	.37364	1.1723	2.1101	.46460	.79293	.48408
#2	216.85	.37297	1.1630	2.0983	.46154	.79059	.48134

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	23.685	1.1752	.95098	1.0431	429.25	.58880	1.1974
SDev	.077	.0051	.00424	.0040	1.74	.00192	.0067
%RSD	.32487	.43089	.44593	.38127	.40586	.32678	.55547

#1	23.740	1.1788	.95398	1.0459	430.48	.59016	1.2021
#2	23.631	1.1717	.94798	1.0403	428.01	.58744	1.1927

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
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Analysis Report 03/28/12 01:43:58 PM page 10

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.87924	15.063	1.3188	.92188	1.0400	16.818	3.4765
SDev	.00299	.073	.0054	.00556	.0048	.105	.0127
%RSD	.33987	.48192	.40791	.60362	.46124	.62167	.36619

#1	.88135	15.114	1.3226	.92582	1.0434	16.892	3.4855
#2	.87713	15.012	1.3150	.91795	1.0366	16.744	3.4675

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48073	42.703	41.339	1.1860	1.0503	.90722	1.1089
SDev	.00134	.096	.120	.0048	.0025	.00927	.0046
%RSD	.27964	.22405	.28909	.40586	.24125	1.0213	.41105

#1	.48168	42.770	41.424	1.1894	1.0485	.91377	1.1122
#2	.47978	42.635	41.255	1.1826	1.0521	.90067	1.1057

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.5491	1.0678	1.1149	1.2387	.82588	.90592
SDev	.0069	.0033	.0054	.0073	.00736	.00080
%RSD	.44462	.31331	.48387	.58769	.89119	.08857

#1	1.5539	1.0702	1.1187	1.2439	.83109	.90648
#2	1.5442	1.0654	1.1110	1.2336	.82068	.90535

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--



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IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	44874	--	--	--	--	--	--
SDev	37.47666	--	--	--	--	--	--
%RSD	.0835162	--	--	--	--	--	--
#1	44847	--	--	--	--	--	--
#2	44900	--	--	--	--	--	--

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Method: 20076010 Sample Name: CCV met0312ccv\_00005 Operator: DCL  
Run Time: 03/28/12 13:47:52  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.5022	.53552	.52249	.53164	.48299	.51913	.54883
SDev	.0169	.00219	.00368	.00350	.00309	.00179	.00314
%RSD	.67442	.40855	.70392	.65912	.64042	.34404	.57238
#1	2.5141	.53707	.52509	.53412	.48517	.52040	.55105
#2	2.4903	.53397	.51988	.52917	.48080	.51787	.54661

## Analysis Report

03/28/12 01:51:40 PM

page 12

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.707	.49117	.49221	.48015	2.6631	.48540	.51598
SDev	.079	.00296	.00393	.00362	.0130	.00305	.00275
%RSD	.62061	.60306	.79861	.75360	.48962	.62824	.53357
#1	12.763	.49326	.49499	.48270	2.6723	.48756	.51792
#2	12.651	.48907	.48943	.47759	2.6539	.48325	.51403

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51685	4.9706	.49569	.52125	.52837	12.890	.95033
SDev	.00479	.0204	.00324	.00129	.00398	.023	.00626
%RSD	.92694	.41087	.65312	.24776	.75350	.17928	.65905
#1	.52024	4.9851	.49798	.52033	.53119	12.906	.95475
#2	.51346	4.9562	.49340	.52216	.52556	12.873	.94590

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24988	12.769	12.435	.26684	.56107	.51004	.51598
SDev	.00169	.162	.094	.00148	.00075	.00453	.00311
%RSD	.67806	1.2697	.75608	.55506	.13397	.88869	.60357
#1	.25107	12.884	12.501	.26789	.56160	.51325	.51818
#2	.24868	12.654	12.368	.26580	.56054	.50684	.51377

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49881	.53758	.48282	.53255	.48157	.53455
SDev	.00273	.00282	.00345	.00240	.01114	.00162
%RSD	.54676	.52457	.71547	.45110	2.3130	.30254
#1	.50074	.53958	.48526	.53425	.48945	.53569

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#2	.49688	.53559	.48038	.53086	.47370	.53340
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IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39511	--	--	--	--	--	--
SDev	292.7422	--	--	--	--	--	--
%RSD	.7409132	--	--	--	--	--	--

#1	39718	--	--	--	--	--	--
#2	39304	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL  
 Run Time: 03/28/12 13:51:43  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07925	.00514	.00357	.00021	-.00074	-.00142	-.00021
SDev	.00028	.00038	.00031	.00003	.00002	.00022	.00007

Analysis Report 03/28/12 01:55:31 PM page 13

%RSD	.34960	7.4633	8.7084	13.359	2.0886	15.227	34.238
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#1	.07945	.00541	.00379	.00019	-.00073	-.00158	-.00026
#2	.07905	.00487	.00335	.00023	-.00075	-.00127	-.00016

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01126	.00084	-.00053	-.00183	-.00968	.00040	.00109
SDev	.00080	.00032	.00049	.00012	.01461	.00002	.00009
%RSD	7.0902	38.210	91.505	6.5942	151.01	4.3037	8.6227

#1	-.01182	.00061	-.00088	-.00192	-.02001	.00042	.00103
#2	-.01069	.00107	-.00019	-.00174	.00066	.00039	.00116

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00004	.02459	.00019	.00198	-.00023	.15359	-.00449
SDev	.00144	.00167	.00002	.00068	.00046	.00285	.00056
%RSD	3851.2	6.7763	9.9037	34.216	200.54	1.8551	12.475

#1	.00105	.02577	.00020	.00246	-.00055	.15158	-.00489
#2	-.00098	.02341	.00017	.00150	.00010	.15561	-.00410

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00039	-.09622	.02034	.00010	.00338	.00177	.00050
SDev	.00054	.15738	.00018	.00002	.00041	.00034	.00006
%RSD	137.44	163.56	.88015	22.356	12.068	19.260	11.394

#1	-.00078	-.20750	.02047	.00008	.00309	.00153	.00054
#2	-.00001	.01506	.02021	.00011	.00367	.00201	.00046

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00117	.00027	-.00117	.00222	-.00435	.00223
SDev	.00018	.00015	.00147	.00059	.00393	.00019

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%RSD	15.813	56.781	125.79	26.664	90.266	8.5037
#1	.00104	.00016	-.00220	.00264	-.00157	.00237
#2	.00130	.00038	-.00013	.00180	-.00713	.00210

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40014	--	--	--	--	--	--
SDev	98.99495	--	--	--	--	--	--
%RSD	.2474008	--	--	--	--	--	--
#1	40084	--	--	--	--	--	--
#2	39944	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52347-a-1-b Operator: DCL  
Run Time: 03/28/12 13:55:34  
Comment: TRACE 61E

## Analysis Report

03/28/12 01:59:21 PM

page 14

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08421	.00256	.00644	.00067	-.00062	-.00264	-.00010
SDev	.00133	.00037	.00040	.00003	.00000	.00055	.00007
%RSD	1.5819	14.567	6.1495	5.1348	.10738	20.876	75.294

#1	.08515	.00282	.00616	.00065	-.00063	-.00303	-.00015
#2	.08327	.00230	.00672	.00070	-.00062	-.00225	-.00005

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.34108	.00062	.00003	.00156	.04168	.00006	.00132
SDev	.00403	.00002	.00024	.00017	.00151	.00006	.00002
%RSD	1.1805	2.3975	815.51	11.054	3.6262	97.338	1.3029

#1	.34393	.00061	.00020	.00143	.04275	.00010	.00131
#2	.33824	.00063	-.00014	.00168	.04061	.00002	.00134

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00656	.00568	.00033	.00381	.04838	.06602	-.00342
SDev	.00043	.00197	.00000	.00051	.00015	.01505	.00041
%RSD	6.5839	34.636	.21379	13.440	.31102	22.796	11.855

#1	.00625	.00707	.00033	.00418	.04849	.07666	-.00371
#2	.00686	.00429	.00033	.00345	.04827	.05537	-.00314

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00035	.05395	.09663	.00026	-.00671	.02484	.00052
SDev	.00002	.02186	.00233	.00001	.00217	.00016	.00004
%RSD	6.3159	40.514	2.4104	1.9309	32.365	.63158	7.2434

#1	-.00033	.06940	.09827	.00025	-.00517	.02473	.00049
#2	-.00036	.03849	.09498	.00026	-.00825	.02495	.00054

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
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Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.41980	.02182	.00037	.00180	.00437	.00765
SDev	.00111	.00018	.00009	.00002	.00417	.00144
%RSD	.26485	.83865	24.992	1.1020	95.391	18.797

#1	.42059	.02195	.00030	.00182	.00142	.00867
#2	.41901	.02169	.00043	.00179	.00732	.00663

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40472	--	--	--	--	--	--
SDev	94.75231	--	--	--	--	--	--
%RSD	.2341182	--	--	--	--	--	--

#1	40405	--	--	--	--	--	--
#2	40539	--	--	--	--	--	--

Analysis Report 03/28/12 01:59:21 PM page 15

Analysis Report 03/28/12 02:05:59 PM page 1

Method: 20076010 Sample Name: 600-52576-a-1-e Operator: DCL  
 Run Time: 03/28/12 14:02:12  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	169.80	.00856	.07632	2.3604	.01161	.05638	-.00529
SDev	.21	.00249	.00240	.0042	.00001	.00056	.00020
%RSD	.12490	29.071	3.1506	.17618	.08307	.98611	3.7521

#1	169.95	.01032	.07802	2.3633	.01162	.05599	-.00515
#2	169.65	.00680	.07462	2.3575	.01160	.05677	-.00543

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1189.2	.27056	.11852	.19252	237.24	.21967	.26582
SDev	2.5	.00029	.00075	.00140	.44	.00032	.00066
%RSD	.21074	.10726	.63622	.72608	.18674	.14678	.24874

#1	1191.0	.27077	.11905	.19351	237.56	.21990	.26629
#2	1187.5	.27036	.11799	.19154	236.93	.21944	.26536

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01655	70.275	5.9344	.02158	.24765	35.720	2.7650
SDev	.00412	.088	.0090	.00008	.00213	.044	.0026
%RSD	24.909	.12547	.15209	.36719	.86050	.12338	.09387

#1	-.01946	70.338	5.9408	.02164	.24915	35.751	2.7668
#2	-.01363	70.213	5.9281	.02153	.24614	35.689	2.7631

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00372	6.9707	7.8289	1.6716	.00728	.03369	.27837
SDev	.00061	.1601	.0211	.0027	.00150	.00171	.00070



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%RSD	16.520	2.2966	.27001	.16174	20.614	5.0863	.25129
#1	-.00328	7.0839	7.8438	1.6736	.00834	.03490	.27887
#2	-.00415	6.8575	7.8139	1.6697	.00622	.03248	.27788
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.40598	1.0996	.23879	.27934	-.02167	-.01399	
SDev	.00064	.0011	.00166	.00016	.00484	.00376	
%RSD	.15743	.10215	.69463	.05816	22.346	26.894	
#1	.40643	1.1004	.23996	.27946	-.02509	-.01665	
#2	.40553	1.0988	.23762	.27923	-.01824	-.01133	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39608	--	--	--	--	--	--
SDev	68.58935	--	--	--	--	--	--
%RSD	.1731727	--	--	--	--	--	--

Analysis Report

03/28/12 02:05:59 PM

page 2

#1	39559	--	--	--	--	--	--
#2	39656	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52576-a-1-f du Operator: DCL  
 Run Time: 03/28/12 14:06:02  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	167.66	.00586	.05825	2.4834	.01077	.05775	-.00419
SDev	.27	.00120	.00287	.0038	.00000	.00019	.00011
%RSD	.15931	20.478	4.9210	.15487	.02261	.33229	2.6774

#1	167.85	.00671	.06028	2.4861	.01077	.05788	-.00427
#2	167.47	.00501	.05623	2.4807	.01077	.05761	-.00411

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1264.4	.26368	.12015	.17372	211.96	.23460	.27430
SDev	3.6	.00057	.00064	.00004	.57	.00031	.00150
%RSD	.28748	.21704	.53402	.02329	.26810	.13183	.54747

#1	1267.0	.26409	.12061	.17375	212.36	.23481	.27536
#2	1261.8	.26328	.11970	.17369	211.56	.23438	.27323

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01677	76.455	6.4920	.00531	.24394	38.163	3.0541
SDev	.00501	.154	.0129	.00085	.00090	.121	.0060
%RSD	29.891	.20127	.19824	15.985	.36842	.31718	.19515

#1	-.01323	76.563	6.5011	.00591	.24457	38.248	3.0583
#2	-.02032	76.346	6.4829	.00471	.24330	38.077	3.0499

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
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file:///c:/tjadata/temp/a032812.TXT

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00364	7.0762	8.0797	1.8590	.00889	.03091	.27160
SDev	.00035	.0546	.0267	.0032	.00032	.00010	.00083
%RSD	9.4876	.77117	.33041	.17210	3.6390	.33281	.30477

#1	-.00340	7.0376	8.0986	1.8613	.00867	.03098	.27219
#2	-.00389	7.1148	8.0608	1.8568	.00912	.03084	.27102

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.34645	.94988	.24654	.28817	-.02215	-.01409
SDev	.00087	.00078	.00310	.00070	.00744	.00380
%RSD	.24987	.08255	1.2577	.24363	33.601	26.973

#1	.34706	.95043	.24874	.28867	-.01689	-.01140
#2	.34583	.94932	.24435	.28767	-.02741	-.01677

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 03/28/12 02:09:50 PM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39768	--	--	--	--	--	--
SDev	113.1371	--	--	--	--	--	--
%RSD	.2844928	--	--	--	--	--	--

#1	39688	--	--	--	--	--	--
#2	39848	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52576-a-1-g ms Operator: DCL  
 Run Time: 03/28/12 14:09:53  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	239.10	.29379	.95874	3.5944	.43063	.61561	.43040
SDev	.42	.00184	.00059	.0053	.00033	.00236	.00090
%RSD	.17743	.62729	.06152	.14811	.07710	.38384	.20868

#1	239.40	.29249	.95833	3.5982	.43086	.61729	.43103
#2	238.80	.29510	.95916	3.5907	.43039	.61394	.42976

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1236.0	1.0985	.96212	1.0800	226.22	.77189	1.2295
SDev	2.5	.0013	.00128	.0002	.37	.00144	.0002
%RSD	.20472	.11878	.13318	.02282	.16143	.18701	.01932

#1	1237.8	1.0994	.96303	1.0801	226.48	.77291	1.2296
#2	1234.3	1.0976	.96122	1.0798	225.97	.77087	1.2293

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.82076	77.336	9.1531	.77644	1.0622	53.592	3.6734
SDev	.00434	.076	.0126	.00129	.0036	.081	.0033
%RSD	.52896	.09847	.13743	.16610	.34214	.15063	.08897

#1	.81769	77.390	9.1620	.77553	1.0647	53.649	3.6757
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file:///c:/tjadata/temp/a032812.TXT

#2	.82383	77.282	9.1442	.77735	1.0596	53.535	3.6711
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48757	19.347	21.479	2.3822	.95780	.77230	.39172
SDev	.00015	.090	.031	.0035	.00237	.00060	.00044
%RSD	.03125	.46383	.14238	.14692	.24748	.07737	.11341
#1	.48768	19.410	21.500	2.3847	.95948	.77188	.39204
#2	.48746	19.283	21.457	2.3798	.95613	.77273	.39141
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.2249	2.1017	1.1420	1.2732	.77866	.84181	
SDev	.0018	.0027	.0024	.0008	.00220	.00762	
%RSD	.14820	.12685	.20656	.06465	.28314	.90455	
#1	1.2262	2.1036	1.1437	1.2726	.78022	.83642	
Analysis Report				03/28/12 02:13:41 PM	page 4		

#2	1.2236	2.0998	1.1404	1.2738	.77710	.84719	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40846	--	--	--	--	--	--
SDev	150.6137	--	--	--	--	--	--
%RSD	.3687401	--	--	--	--	--	--
#1	40739	--	--	--	--	--	--
#2	40952	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52576-a-1-h msd Operator: DCL  
Run Time: 03/28/12 14:13:44  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	234.21	.28379	.97025	3.8712	.42403	.62434	.42297
SDev	.24	.00166	.00629	.0041	.00088	.00132	.00073
%RSD	.10377	.58502	.64861	.10550	.20657	.21152	.17252
#1	234.38	.28262	.97470	3.8741	.42465	.62527	.42349
#2	234.04	.28497	.96580	3.8683	.42341	.62340	.42245
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1464.3	1.0767	.94845	1.0908	236.60	.78353	1.1134
SDev	3.8	.0021	.00229	.0002	.61	.00017	.0032
%RSD	.25928	.19624	.24164	.02018	.25685	.02234	.29009
#1	1467.0	1.0782	.95007	1.0910	237.03	.78340	1.1112
#2	1461.6	1.0752	.94683	1.0907	236.17	.78365	1.1157
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.81051	87.287	10.498	.76357	1.0587	61.093	3.9193
SDev	.00049	.169	.021	.00216	.0030	.013	.0029
%RSD	.06081	.19339	.20223	.28239	.28514	.02189	.07320

file:///c:/tjadata/temp/a032812.TXT

#1	.81086	87.406	10.513	.76510	1.0608	61.084	3.9213
#2	.81016	87.167	10.483	.76205	1.0566	61.103	3.9173
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.48905	19.569	21.948	2.6055	.94106	.75861	.37087
SDev	.00090	.110	.003	.0027	.00185	.00167	.00109
%RSD	.18319	.56257	.01486	.10285	.19691	.22019	.29296
#1	.48968	19.647	21.951	2.6074	.93975	.75980	.37164
#2	.48841	19.491	21.946	2.6036	.94237	.75743	.37010
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	1.2256	1.7432	1.0319	1.1542	.77265	.82944	
Analysis Report				03/28/12 02:17:32 PM		page 5	
SDev	.0015	.0033	.0008	.0052	.01613	.00733	
%RSD	.12262	.18784	.07657	.45400	2.0878	.88330	
#1	1.2267	1.7455	1.0325	1.1505	.78406	.82426	
#2	1.2245	1.7409	1.0314	1.1579	.76124	.83462	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	39940	--	--	--	--	--	--
SDev	40.30509	--	--	--	--	--	--
%RSD	.1009154	--	--	--	--	--	--
#1	39911	--	--	--	--	--	--
#2	39968	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52577-b-1-b Operator: DCL  
Run Time: 03/28/12 14:17:35  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	46.119	.00854	.04799	1.3021	.00639	.03597	-.00184
SDev	.025	.00098	.00088	.0021	.00002	.00059	.00004
%RSD	.05488	11.450	1.8404	.16095	.27755	1.6444	2.1315
#1	46.137	.00923	.04861	1.3036	.00641	.03639	-.00181
#2	46.101	.00785	.04736	1.3007	.00638	.03556	-.00187
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	269.52	.07543	.14993	.31302	76.950	.03586	.13240
SDev	.60	.00013	.00046	.00080	.181	.00003	.00101
%RSD	.22323	.17267	.30791	.25650	.23559	.07817	.76387
#1	269.95	.07552	.15026	.31359	77.078	.03588	.13311
#2	269.10	.07534	.14961	.31246	76.822	.03584	.13168
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00267	14.017	1.7994	.00935	.08172	7.5083	3.2173



file:///c:/tjadata/temp/a032812.TXT

SDev	.00131	.038	.0037	.00039	.00010	.0112	.0013
%RSD	48.968	.26803	.20571	4.2071	.12457	.14861	.04072
#1	-.00175	14.043	1.8020	.00963	.08165	7.5162	3.2182
#2	-.00359	13.990	1.7968	.00907	.08179	7.5004	3.2163
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00219	9.9477	10.066	.46349	.00365	.03978	.28935
SDev	.00029	.1075	.004	.00061	.00239	.00090	.00059
%RSD	13.105	1.0804	.03968	.13257	65.591	2.2713	.20291
#1	-.00239	10.024	10.063	.46392	.00534	.04041	.28976
#2	-.00198	9.8717	10.069	.46305	.00196	.03914	.28893

Analysis Report

03/28/12 02:21:23 PM

page 6

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.13749	.43197	.12037	.13841	-.01367	.00283	
SDev	.00039	.00070	.00038	.00171	.00002	.00197	
%RSD	.28105	.16287	.31412	1.2326	.16228	69.676	
#1	.13776	.43246	.12010	.13962	-.01369	.00423	
#2	.13722	.43147	.12064	.13720	-.01366	.00144	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	42701	--	--	--	--	--	--
SDev	28.28427	--	--	--	--	--	--
%RSD	.0662380	--	--	--	--	--	--
#1	42721	--	--	--	--	--	--
#2	42681	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52577-b-2-c Operator: DCL  
Run Time: 03/28/12 14:21:26  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	71.868	.00536	.04117	1.8837	.00523	.03208	-.00189
SDev	.186	.00133	.00230	.0039	.00003	.00025	.00003
%RSD	.25851	24.774	5.5884	.20778	.61063	.78318	1.5926
#1	71.999	.00442	.03955	1.8864	.00525	.03226	-.00191
#2	71.737	.00630	.04280	1.8809	.00520	.03190	-.00187
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	932.72	.10457	.07023	.08295	99.546	.09617	.10901
SDev	2.25	.00039	.00019	.00007	.276	.00023	.00056
%RSD	.24079	.37208	.26807	.08485	.27717	.24284	.51067
#1	934.30	.10484	.07037	.08300	99.741	.09634	.10940
#2	931.13	.10429	.07010	.08290	99.351	.09601	.10861
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881



file:///c:/tjadata/temp/a032812.TXT

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .00946	33.435	3.4755	.00404	.12787	16.763	2.5524
SDev	.00046	.094	.0076	.00015	.00014	.058	.0088
%RSD	4.8363	.28078	.21743	3.7495	.11111	.34500	.34495
#1	- .00913	33.501	3.4809	.00414	.12797	16.803	2.5586
#2	- .00978	33.368	3.4702	.00393	.12777	16.722	2.5462
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .00245	2.8090	3.5592	.44887	.00140	.02542	.42306
SDev	.00012	.0791	.0127	.00070	.00143	.00213	.00076
Analysis Report				03/28/12 02:25:14 PM		page 7	
%RSD	4.9197	2.8149	.35703	.15632	101.95	8.3780	.18005
#1	- .00253	2.8649	3.5682	.44936	.00241	.02693	.42360
#2	- .00236	2.7531	3.5502	.44837	.00039	.02392	.42252
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.17402	.26841	.09705	.11499	-.01610	-.00614	
SDev	.00077	.00029	.00121	.00023	.00002	.00068	
%RSD	.44127	.10692	1.2499	.19867	.12175	11.018	
#1	.17457	.26862	.09791	.11515	-.01608	-.00566	
#2	.17348	.26821	.09620	.11482	-.01611	-.00662	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	41186	--	--	--	--	--	--
SDev	79.90307	--	--	--	--	--	--
%RSD	.1940031	--	--	--	--	--	--
#1	41130	--	--	--	--	--	--
#2	41243	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52642-a-1-a@10 Operator: DCL  
Run Time: 03/28/12 14:25:17  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.6519	.00191	.00556	9.0193	-.00062	-.00292	-.00045
SDev	.0074	.00211	.00233	.0484	.00000	.00062	.00013
%RSD	.44608	110.56	41.980	.53694	.39658	21.301	29.384
#1	1.6571	.00042	.00721	9.0535	-.00062	-.00336	-.00054
#2	1.6467	.00340	.00391	8.9850	-.00062	-.00248	-.00035
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	71.419	.00302	.00335	.01252	7.5607	.00286	.01067
SDev	.165	.00038	.00046	.00013	.0009	.00006	.00076
%RSD	.23110	12.435	13.766	1.0707	.01249	2.0414	7.1161
#1	71.536	.00275	.00302	.01262	7.5600	.00282	.01014
#2	71.303	.00328	.00368	.01243	7.5613	.00290	.01121



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Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00175	1.9865	.22326	.00098	.00305	.51706	.15396
SDev	.00056	.0010	.00074	.00046	.00037	.04409	.00287
%RSD	31.885	.05194	.32994	46.604	12.021	8.5266	1.8643
#1	.00135	1.9872	.22378	.00130	.00330	.48589	.15599
#2	.00214	1.9857	.22274	.00066	.00279	.54824	.15193

Analysis Report 03/28/12 02:29:05 PM page 8

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00043	.68995	.95606	.47290	-.00203	.00448	.21857
SDev	.00087	.08332	.00887	.00189	.00147	.00258	.00040
%RSD	202.64	12.076	.92834	.39904	72.320	57.636	.18480
#1	-.00104	.63103	.96234	.47423	-.00307	.00630	.21886
#2	.00019	.74887	.94978	.47156	-.00099	.00265	.21829

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00407	.01485	.01150	.01026	-.00754	.00639
SDev	.00014	.00002	.00175	.00027	.00049	.00059
%RSD	3.5406	.12026	15.187	2.5936	6.4334	9.2761
#1	.00397	.01486	.01026	.01007	-.00789	.00597
#2	.00417	.01484	.01273	.01045	-.00720	.00681

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	38998	--	--	--	--	--	--
SDev	195.8686	--	--	--	--	--	--
%RSD	.5022464	--	--	--	--	--	--
#1	39137	--	--	--	--	--	--
#2	38860	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52642-a-2-a@10 Operator: DCL  
Run Time: 03/28/12 14:29:08  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06823	.00170	.00247	.00171	-.00076	.01876	-.00015
SDev	.00239	.00228	.00025	.00007	.00000	.00014	.00001
%RSD	3.5104	134.20	9.9481	4.1855	.59537	.76945	7.0163
#1	.06654	.00332	.00264	.00166	-.00076	.01887	-.00016
#2	.06992	.00009	.00230	.00176	-.00076	.01866	-.00014

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07895	.00024	-.00050	-.00122	-.00441	.00088	.00094
SDev	.00653	.00002	.00019	.00012	.00774	.00002	.00119
%RSD	8.2652	6.5567	37.740	9.7123	175.49	2.6917	127.56

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#1	.07434	.00023	-.00064	-.00113	-.00988	.00090	.00009
#2	.08357	.00025	-.00037	-.00130	.00106	.00086	.00178
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00066	.00742	.00021	.00055	-.00089	.05771	-.00560
SDev	.00128	.00299	.00006	.00019	.00025	.01628	.00115
%RSD	194.19	40.275	26.407	34.241	28.279	28.201	20.500
Analysis Report							
				03/28/12 02:32:56 PM	page 9		
#1	.00157	.00953	.00017	.00069	-.00071	.06922	-.00478
#2	-.00025	.00530	.00025	.00042	-.00106	.04620	-.00641
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00054	-.12468	.02173	.00031	-.00215	.00356	.00021
SDev	.00052	.15196	.00254	.00001	.00303	.00094	.00002
%RSD	96.184	121.88	11.682	3.3200	141.26	26.409	11.497
#1	-.00090	-.23213	.02352	.00030	-.00000	.00423	.00023
#2	-.00017	-.01723	.01993	.00031	-.00429	.00290	.00019
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	.00044	.00563	.00111	.00085	-.00551	.00374	
SDev	.00019	.00025	.00037	.00161	.00231	.00308	
%RSD	43.033	4.3821	33.334	188.93	41.965	82.256	
#1	.00058	.00546	.00085	-.00029	-.00714	.00592	
#2	.00031	.00581	.00137	.00199	-.00387	.00157	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	40410	--	--	--	--	--	--
SDev	85.55992	--	--	--	--	--	--
%RSD	.2117322	--	--	--	--	--	--
#1	40349	--	--	--	--	--	--
#2	40470	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52642-a-3-a@10 Operator: DCL  
Run Time: 03/28/12 14:33:00  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.67121	.00286	.01301	8.1810	-.00058	-.00322	-.00058
SDev	.00150	.00433	.00223	.0215	.00002	.00003	.00008
%RSD	.22323	151.62	17.113	.26253	3.8271	.84992	13.689
#1	.67015	-.00021	.01143	8.1962	-.00059	-.00320	-.00052
#2	.67227	.00592	.01458	8.1659	-.00056	-.00324	-.00063
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	4.7211	.00228	.00354	.01128	18.327	.00145	.00854
SDev	.0011	.00028	.00011	.00040	.024	.00004	.00066



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%RSD	.02381	12.286	3.0755	3.5924	.13352	2.7193	7.7291
#1	4.7203	.00208	.00362	.01099	18.344	.00142	.00901
#2	4.7219	.00248	.00346	.01156	18.310	.00148	.00808
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881

Analysis Report 03/28/12 02:36:48 PM page 10

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00056	6.3453	.15599	.00107	.00289	.39587	.19270
SDev	.00023	.0006	.00005	.00024	.00027	.02573	.00224
%RSD	41.490	.00920	.03146	22.368	9.4194	6.4986	1.1615
#1	-.00073	6.3457	.15596	.00090	.00309	.37768	.19112
#2	-.00040	6.3449	.15602	.00124	.00270	.41406	.19428
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	.00315	.07921	2.1548	-.00105	.00363	.01761
SDev	.00041	.11314	.00164	.0071	.00012	.00041	.00015
%RSD	305.53	3593.6	2.0718	.32948	11.133	11.170	.82618
#1	.00043	.08315	.07805	2.1598	-.00097	.00392	.01751
#2	-.00016	-.07686	.08037	2.1498	-.00114	.00335	.01772
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00448	.43900	.00927	.00818	-.00157	-.00006	
SDev	.00046	.00018	.00327	.00064	.00452	.00261	
%RSD	10.245	.04044	35.220	7.8596	288.68	4381.2	
#1	.00415	.43913	.01158	.00772	.00163	-.00190	
#2	.00480	.43887	.00696	.00863	-.00476	.00178	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39058	--	--	--	--	--	--
SDev	31.81980	--	--	--	--	--	--
%RSD	.0814691	--	--	--	--	--	--
#1	39080	--	--	--	--	--	--
#2	39035	--	--	--	--	--	--

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Method: 20076010 Sample Name: CCV met0312ccv\_00005 Operator: DCL  
Run Time: 03/28/12 14:36:51  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4567	.52216	.51029	.52336	.47448	.50655	.53520
SDev	.0142	.00195	.00336	.00136	.00052	.00200	.00005
%RSD	.57918	.37277	.65808	.25948	.10888	.39398	.00852
#1	2.4668	.52078	.51267	.52432	.47485	.50796	.53516
#2	2.4466	.52353	.50792	.52240	.47411	.50514	.53523
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203

file:///c:/tjadata/temp/a032812.TXT

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.478	.48312	.48205	.47477	2.6119	.48359	.50236
SDev	.024	.00090	.00064	.00164	.0004	.00243	.00137
%RSD	.18946	.18652	.13327	.34660	.01613	.50278	.27365
Analysis Report				03/28/12 02:40:39 PM			page 11
#1	12.495	.48375	.48251	.47477	2.6119	.48531	.50139
#2	12.462	.48248	.48160	.47245	2.6125	.48187	.50333
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49768	4.8948	.48583	.51063	.52110	12.989	.92844
SDev	.00681	.0035	.00095	.00072	.00291	.020	.00179
%RSD	1.3685	.07127	.19553	.14169	.55759	.15324	.19272
#1	.49286	4.8973	.48650	.51011	.52316	13.003	.92971
#2	.50249	4.8924	.48516	.51114	.51905	12.975	.92718
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24736	12.779	12.387	.26255	.54667	.49916	.50731
SDev	.00031	.141	.110	.00042	.00591	.00102	.00107
%RSD	.12649	1.1070	.88581	.16128	1.0810	.20356	.21134
#1	.24758	12.879	12.464	.26285	.54249	.49844	.50807
#2	.24713	12.679	12.309	.26225	.55085	.49988	.50655
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.49092	.52875	.46882	.51913	.46631	.51342	
SDev	.00024	.00106	.00374	.00019	.00679	.00682	
%RSD	.04985	.20113	.79830	.03675	1.4551	1.3290	
#1	.49109	.52950	.46617	.51899	.46151	.50859	
#2	.49075	.52799	.47147	.51926	.47110	.51824	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38751	--	--	--	--	--	--
SDev	203.6468	--	--	--	--	--	--
%RSD	.5255265	--	--	--	--	--	--
#1	38895	--	--	--	--	--	--
#2	38607	--	--	--	--	--	--
-----							
Method:	20076010	Sample Name:	CCB	Operator:	DCL		
Run Time:	03/28/12	14:40:43					
Comment:	TRACE 61E						
Mode:	CONC	Corr. Factor:	1				
Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07283	.00461	.00468	.00031	-.00074	-.00344	-.00010
SDev	.00187	.00248	.00104	.00007	.00004	.00098	.00002
%RSD	2.5626	53.890	22.168	22.676	5.5630	28.444	23.480
#1	.07415	.00636	.00395	.00036	-.00071	-.00275	-.00011





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#2	.07151	.00285	.00541	.00026	-.00077	-.00413	-.00008
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## Analysis Report

03/28/12 02:44:31 PM

page 12

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00812	.00117	-.00019	-.00138	.00329	.00066	.00091
SDev	.00259	.00040	.00008	.00024	.00072	.00005	.00072
%RSD	31.885	34.305	43.369	17.509	21.782	8.0334	78.349

#1	-.00994	.00146	-.00013	-.00121	.00380	.00070	.00041
#2	-.00629	.00089	-.00025	-.00155	.00278	.00063	.00142

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00253	.04246	.00019	.00199	-.00030	.32690	-.00406
SDev	.00123	.00447	.00006	.00087	.00003	.03304	.00300
%RSD	48.726	10.531	30.787	43.599	11.545	10.106	73.862

#1	.00340	.04563	.00024	.00260	-.00033	.35026	-.00194
#2	.00166	.03930	.00015	.00138	-.00028	.30354	-.00618

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00022	-.04468	.02499	.00011	.00255	.00092	.00065
SDev	.00017	.02267	.00243	.00000	.00142	.00049	.00013
%RSD	80.511	50.738	9.7080	3.3038	55.783	52.769	20.230

#1	-.00034	-.02865	.02671	.00011	.00355	.00127	.00074
#2	-.00009	-.06071	.02328	.00011	.00154	.00058	.00055

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00162	.00059	-.00261	.00267	-.00561	.00660
SDev	.00028	.00005	.00077	.00069	.00556	.00093
%RSD	16.930	8.4148	29.549	25.793	99.252	14.139

#1	.00182	.00062	-.00315	.00219	-.00167	.00594
#2	.00143	.00055	-.00206	.00316	-.00954	.00726

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	38444	--	--	--	--	--	--
SDev	106.7731	--	--	--	--	--	--
%RSD	.2777404	--	--	--	--	--	--

#1	38368	--	--	--	--	--	--
#2	38519	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52643-a-1-a@10 Operator: DCL

Run Time: 03/28/12 14:44:34

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.13406	-.00065	.00437	.05743	-.00079	-.00547	-.00019
SDev	.00207	.00277	.00063	.00017	.00000	.00106	.00024



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Analysis Report 03/28/12 02:48:22 PM page 13

%RSD	1.5412	423.92	14.414	.29898	.44853	19.336	121.62
#1	.13260	-.00261	.00481	.05755	-.00079	-.00622	-.00036
#2	.13552	.00130	.00392	.05731	-.00079	-.00472	-.00003
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.45193	.00041	-.00019	.01405	.15198	.00041	.00140
SDev	.00144	.00013	.00022	.00005	.01916	.00002	.00029
%RSD	.31867	31.067	116.50	.37068	12.607	5.2771	20.739
#1	.45294	.00032	-.00034	.01401	.13843	.00042	.00160
#2	.45091	.00050	-.00003	.01409	.16553	.00039	.00119
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00225	1.2635	.01256	.00076	-.00008	.04748	.15275
SDev	.00260	.0023	.00007	.00045	.00034	.00504	.00072
%RSD	115.41	.17861	.59845	58.723	416.77	10.603	.47034
#1	.00409	1.2650	.01261	.00108	-.00032	.05104	.15326
#2	.00041	1.2619	.01251	.00045	.00016	.04392	.15224
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00003	-.07568	.02180	.00131	-.00451	.00394	.00031
SDev	.00031	.21923	.00106	.00001	.00038	.00006	.00019
%RSD	1082.1	289.69	4.8594	.92263	8.5311	1.6596	60.484
#1	-.00025	-.23070	.02255	.00130	-.00424	.00398	.00018
#2	.00019	.07934	.02105	.00132	-.00478	.00389	.00044
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00085	.01694	.00106	.00157	-.00033	.00354	
SDev	.00025	.00013	.00139	.00026	.00080	.00349	
%RSD	29.213	.78567	131.89	16.663	241.87	98.732	
#1	.00067	.01685	.00204	.00138	.00023	.00601	
#2	.00102	.01703	.00007	.00175	-.00090	.00107	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39906	--	--	--	--	--	--
SDev	117.3797	--	--	--	--	--	--
%RSD	.2941406	--	--	--	--	--	--
#1	39823	--	--	--	--	--	--
#2	39989	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52643-a-2-a@10 Operator: DCL  
 Run Time: 03/28/12 14:48:25  
 Comment: TRACE 61E

Analysis Report 03/28/12 02:52:13 PM page 14



file:///c:/tjadata/temp/a032812.TXT

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12840	-.00081	.00483	.00276	-.00078	-.00517	-.00019
SDev	.00043	.00058	.00003	.00010	.00001	.00006	.00011
%RSD	.33656	71.548	.65431	3.6722	1.1872	1.2380	55.049

#1	.12809	-.00040	.00485	.00269	-.00079	-.00522	-.00027
#2	.12870	-.00122	.00481	.00283	-.00077	-.00513	-.00012

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49594	.00034	-.00024	.00615	.21158	.00045	.00167
SDev	.00142	.00000	.00030	.00028	.01219	.00002	.00047
%RSD	.28569	.00291	122.57	4.4772	5.7627	5.4001	27.808

#1	.49694	.00034	-.00046	.00596	.20296	.00043	.00134
#2	.49494	.00034	-.00003	.00635	.22020	.00046	.00200

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00530	1.4524	.01229	.00063	-.00027	.03476	.13835
SDev	.00142	.0059	.00000	.00072	.00048	.01001	.00010
%RSD	26.866	.40607	.00975	115.22	177.10	28.792	.07422

#1	.00630	1.4566	.01229	.00114	-.00062	.02768	.13828
#2	.00429	1.4482	.01229	.00012	.00007	.04183	.13843

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00048	-.10398	.01497	.00041	-.00415	.00367	.00027
SDev	.00061	.14113	.00118	.00001	.00170	.00022	.00017
%RSD	128.54	135.72	7.9078	1.1594	40.952	5.9515	65.574

#1	-.00091	-.20377	.01414	.00041	-.00536	.00383	.00014
#2	-.00004	-.00419	.01581	.00041	-.00295	.00352	.00039

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00084	.05352	.00214	.00144	.00026	.00781
SDev	.00024	.00008	.00001	.00070	.00087	.00170
%RSD	29.083	.14979	.46306	48.846	333.79	21.722

#1	.00067	.05347	.00215	.00094	.00088	.00901
#2	.00102	.05358	.00213	.00193	-.00036	.00661

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40060	--	--	--	--	--	--
SDev	3.535534	--	--	--	--	--	--
%RSD	.0088257	--	--	--	--	--	--

#1	40062	--	--	--	--	--
#2	40057	--	--	--	--	--

Analysis Report

03/28/12 02:52:13 PM

page 15

file:///c:/tjadata/temp/a032812.TXT

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Method: 20076010   Sample Name: 600-52643-a-3-a@10   Operator: DCL
Run Time: 03/28/12 14:52:16
Comment: TRACE 61E
Mode: CONC   Corr. Factor: 1

Elem   Al3082   Sb2068   As1890   Ba4934   Be3130   B_2496   Cd2265
Units  ppm      ppm      ppm      ppm      ppm      ppm      ppm
Avge   .14204   .00130   .00459   .02089   -.00079  -.00638  -.00018
SDev   .00050   .00076   .00018   .00011   .00000   .00052   .00005
%RSD   .35501   58.068   4.0338   .50138   .03541   8.1176   26.106

#1     .14239   .00077   .00446   .02097   -.00079  -.00675  -.00014
#2     .14168   .00184   .00472   .02082   -.00079  -.00602  -.00021

Elem   Ca3179   Cr2677   Co2286   Cu3247   Fe2714   Li6707   Pb2203
Units  ppm      ppm      ppm      ppm      ppm      ppm      ppm
Avge   .25598   .00044   -.00006  .00018   .18380   .00031   .00131
SDev   .00059   .00013   .00008   .00001   .00627   .00002   .00074
%RSD   .22931   29.749   146.09   4.1084   3.4093   7.5493   56.674

#1     .25639   .00053   .00000   .00017   .18823   .00033   .00078
#2     .25556   .00034   -.00011  .00018   .17937   .00030   .00183

Elem   Se1960   Mg2790   Mn2576   Mo2020   Ni2316   K_7664   Si2881
Units  ppm      ppm      ppm      ppm      ppm      ppm      ppm
Avge   .00309   1.6093   .00221   -.00027  -.00011  .06829   .16341
SDev   .00084   .0060   .00001   .00045   .00003   .01405   .00167
%RSD   27.237   .37232   .32286   169.49   25.626   20.579   1.0221

#1     .00249   1.6136   .00221   -.00059  -.00012  .07823   .16459
#2     .00368   1.6051   .00220   .00005   -.00009  .05836   .16223

Elem   Ag3280   Na3302   Na5889   Sr4215   Tl1908   Sn1899   Ti3349
Units  ppm      ppm      ppm      ppm      ppm      ppm      ppm
Avge   -.00030  -.01208  .01320   .00082   -.00304  .00543   .00031
SDev   .00007   .09295   .00133   .00002   .00253   .00042   .00004
%RSD   24.590   769.27   10.041   1.9944   83.274   7.7737   11.606

#1     -.00035  .05364   .01414   .00083   -.00125  .00573   .00028
#2     -.00025  -.07781  .01227   .00081   -.00483  .00513   .00033

Elem   V_2924   Zn2138   2203/1   2203/2   1960/1   1960/2
Units  ppm      ppm      ppm      ppm      ppm      ppm
Avge   .00080   .01260   .00181   .00105   .00081   .00423
SDev   .00032   .00006   .00205   .00009   .00360   .00054
%RSD   39.629   .45151   112.76   8.4038   442.40   12.690

#1     .00102   .01256   .00037   .00099   -.00173  .00461
#2     .00057   .01264   .00326   .00112   .00336   .00385

IntStd  1         2         3         4         5         6         7
Mode   *Counts  NOTUSED  NOTUSED  NOTUSED  NOTUSED  NOTUSED  NOTUSED
Elem   Y        --        --        --        --        --        --
Wavlen 371.030  --        --        --        --        --        --
Avge   39762   --        --        --        --        --        --

Analysis Report                               03/28/12 02:56:04 PM   page 16

SDev   129.4005  --        --        --        --        --        --
%RSD   .3254336  --        --        --        --        --        --

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#1	39671	--	--	--	--	--	--
#2	39854	--	--	--	--	--	--
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Method:	20076010	Sample Name:	600-52643-a-4-a@10	Operator:	DCL		
Run Time:	03/28/12 14:56:07						
Comment:	TRACE 61E						
Mode:	CONC	Corr. Factor:	1				
Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11604	.00072	.00519	.00773	-.00079	-.00561	-.00023
SDev	.00008	.00229	.00267	.00002	.00001	.00056	.00001
%RSD	.07011	319.45	51.454	.25982	.96984	9.9293	5.6082
#1	.11598	.00234	.00708	.00774	-.00079	-.00521	-.00024
#2	.11610	-.00090	.00330	.00772	-.00080	-.00600	-.00022
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19503	.00050	-.00013	-.00082	.17653	.00045	.00028
SDev	.00029	.00016	.00014	.00025	.00157	.00002	.00005
%RSD	.15011	31.901	104.94	30.156	.88825	4.1997	15.774
#1	.19524	.00062	-.00003	-.00100	.17764	.00047	.00025
#2	.19483	.00039	-.00023	-.00065	.17543	.00044	.00032
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00375	1.3582	.00389	.00022	-.00014	.07152	.15707
SDev	.00238	.0043	.00006	.00130	.00044	.00171	.00232
%RSD	63.490	.31747	1.4388	590.55	306.46	2.3882	1.4744
#1	.00543	1.3613	.00393	.00114	-.00046	.07273	.15870
#2	.00207	1.3552	.00385	-.00070	.00017	.07031	.15543
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00004	.00915	.02409	.00053	-.00335	.00724	.00032
SDev	.00014	.00857	.00053	.00000	.00117	.00082	.00007
%RSD	320.18	93.673	2.1817	.30076	34.875	11.264	20.500
#1	.00006	.01521	.02446	.00053	-.00418	.00667	.00037
#2	-.00014	.00309	.02372	.00053	-.00253	.00782	.00028
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00075	.01211	.00143	-.00029	.00108	.00508	
SDev	.00001	.00009	.00031	.00009	.00091	.00402	
%RSD	1.6382	.76234	21.896	30.915	83.941	79.143	
#1	.00076	.01205	.00121	-.00023	.00044	.00793	
#2	.00074	.01218	.00165	-.00035	.00172	.00224	

Analysis Report

03/28/12 02:59:55 PM

page 17

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--



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Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	41161	--	--	--	--	--	--
SDev	53.74012	--	--	--	--	--	--
%RSD	.1305608	--	--	--	--	--	--
#1	41123	--	--	--	--	--	--
#2	41199	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52658-a-2-d Operator: DCL  
Run Time: 03/28/12 15:03:50  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	118.16	.00575	.05277	2.4291	.01030	.02449	-.00424
SDev	.08	.00135	.00151	.0018	.00002	.00073	.00015
%RSD	.07079	23.386	2.8546	.07468	.17990	2.9783	3.4372

#1	118.10	.00480	.05171	2.4278	.01029	.02398	-.00414
#2	118.22	.00671	.05384	2.4304	.01031	.02501	-.00434

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	199.13	.15950	.08918	.19890	155.02	.09125	.18654
SDev	.34	.00004	.00047	.00067	.25	.00009	.00045
%RSD	.16835	.02452	.53202	.33565	.16111	.09709	.24287

#1	198.89	.15948	.08884	.19937	154.84	.09118	.18622
#2	199.36	.15953	.08951	.19843	155.20	.09131	.18686

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00453	35.396	2.8469	.00700	.15454	13.168	2.7771
SDev	.00162	.056	.0040	.00021	.00042	.001	.0008
%RSD	35.852	.15836	.13987	2.9598	.27207	.00982	.02839

#1	-.00568	35.357	2.8441	.00715	.15425	13.167	2.7765
#2	-.00338	35.436	2.8497	.00686	.15484	13.169	2.7776

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00192	10.246	10.410	.56221	.00710	.03017	.24904
SDev	.00034	.095	.002	.00045	.00040	.00019	.00010
%RSD	17.773	.92647	.01979	.07999	5.6255	.62672	.04169

#1	-.00216	10.179	10.411	.56190	.00682	.03030	.24897
#2	-.00168	10.313	10.408	.56253	.00738	.03003	.24912

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
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Analysis Report 03/28/12 03:07:38 PM page 19

Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.34946	1.0230	.16801	.19581	-.00942	-.00208	
SDev	.00000	.0011	.00013	.00074	.00006	.00240	
%RSD	.00105	.10816	.07703	.38012	.65700	115.42	
#1	.34946	1.0222	.16810	.19528	-.00946	-.00378	
#2	.34945	1.0238	.16792	.19634	-.00937	-.00038	

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IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	41776	--	--	--	--	--	--
SDev	21.92031	--	--	--	--	--	--
%RSD	.0524704	--	--	--	--	--	--
#1	41761	--	--	--	--	--	--
#2	41792	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52694-a-1-a@10 Operator: DCL  
Run Time: 03/28/12 15:07:41  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.59215	.01416	.02426	.01537	.00030	-.00422	.00290
SDev	.00825	.00057	.00043	.00018	.00000	.00024	.00013
%RSD	1.3935	4.0044	1.7850	1.1683	.71274	5.7500	4.6189

#1	.59799	.01456	.02457	.01550	.00030	-.00440	.00300
#2	.58632	.01376	.02395	.01525	.00030	-.00405	.00281

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.2125	.04615	.00217	502.41	17.346	.00097	.70580
SDev	.0465	.00021	.00037	1.91	.122	.00001	.00591
%RSD	.89134	.44973	17.110	.38046	.70576	.48857	.83685

#1	5.2454	.04630	.00243	503.76	17.432	.00097	.70997
#2	5.1797	.04601	.00191	501.06	17.259	.00097	.70162

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00062	2.7111	.13901	.01100	.14336	.46487	.26378
SDev	.00016	.0234	.00115	.00035	.00080	.00756	.00311
%RSD	25.443	.86356	.82515	3.2038	.55892	1.6266	1.1806

#1	-.00051	2.7277	.13982	.01125	.14393	.47022	.26599
#2	-.00074	2.6946	.13820	.01075	.14280	.45953	.26158

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05591	17.415	.14384	.00297	-.00111	.45018	.03350
SDev	.00072	.011	.00183	.00003	.00175	.00514	.00019
%RSD	1.2960	.06037	1.2704	1.0988	157.37	1.1421	.57404

Analysis Report 03/28/12 03:11:29 PM page 20

#1	.05643	17.423	.14514	.00300	.00013	.45381	.03364
#2	.05540	17.408	.14255	.00295	-.00234	.44654	.03336

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00459	50.323	.65742	.72999	-.00782	.00297
SDev	.00012	.135	.00565	.00603	.00483	.00265
%RSD	2.6087	.26749	.85991	.82647	61.807	89.276

#1	.00450	50.418	.66141	.73425	-.01123	.00485
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#2	.00467	50.228	.65342	.72572	-.00440	.00110	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38502	--	--	--	--	--	--
SDev	76.36753	--	--	--	--	--	--
%RSD	.1983469	--	--	--	--	--	--
#1	38448	--	--	--	--	--	--
#2	38556	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52694-a-2-a@10 Operator: DCL  
Run Time: 03/28/12 15:11:32  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07940	.00163	.00246	.00080	-.00082	.02414	-.00024
SDev	.00122	.00079	.00106	.00002	.00002	.00022	.00005
%RSD	1.5360	48.309	43.126	2.3390	2.0774	.92350	19.197

#1	.08026	.00219	.00171	.00081	-.00083	.02398	-.00028
#2	.07854	.00108	.00321	.00078	-.00081	.02430	-.00021

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04804	.00059	-.00042	.07085	.03096	.00113	.00134
SDev	.00028	.00002	.00020	.03906	.00142	.00003	.00033
%RSD	.57258	2.6721	47.028	55.134	4.5760	2.2254	24.561

#1	.04824	.00058	-.00056	.09847	.02996	.00115	.00158
#2	.04785	.00060	-.00028	.04323	.03197	.00112	.00111

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00259	.02365	.00037	.00061	-.00029	.19056	-.00559
SDev	.00208	.00374	.00004	.00050	.00006	.01452	.00171
%RSD	80.216	15.820	10.658	81.799	19.815	7.6202	30.598

#1	.00406	.02630	.00040	.00097	-.00025	.20083	-.00438
#2	.00112	.02101	.00034	.00026	-.00033	.18029	-.00679

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Analysis Report 03/28/12 03:15:20 PM page 21

Avge	-.00039	.00987	.03116	.00021	-.00333	.00403	.00017
SDev	.00024	.01201	.00146	.00002	.00009	.00091	.00015
%RSD	61.665	121.63	4.6955	8.1148	2.5720	22.715	88.191

#1	-.00057	.00138	.03220	.00022	-.00327	.00338	.00028
#2	-.00022	.01837	.03013	.00020	-.00339	.00467	.00007

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00058	.03975	.00198	.00102	-.00430	.00604
SDev	.00039	.01600	.00106	.00102	.00050	.00287
%RSD	67.375	40.269	53.292	99.913	11.514	47.542

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#1	.00086	.05106	.00124	.00175	-.00395	.00807	
#2	.00031	.02843	.00273	.00030	-.00465	.00401	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39140	--	--	--	--	--	--
SDev	68.58935	--	--	--	--	--	--
%RSD	.1752388	--	--	--	--	--	--
#1	39092	--	--	--	--	--	--
#2	39189	--	--	--	--	--	--

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Method: 20076010 Sample Name: PDS 600-52645-c-4-a Operator: DCL  
Run Time: 03/28/12 15:15:23  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	173.55	.98505	1.0840	2.2932	.44253	1.0641	.47853
SDev	.23	.00378	.0017	.0004	.00051	.0001	.00053
%RSD	.13331	.38360	.15626	.01759	.11624	.01077	.11030

#1	173.71	.98238	1.0828	2.2929	.44216	1.0641	.47815
#2	173.38	.98773	1.0852	2.2935	.44289	1.0640	.47890

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	30.589	1.1454	.91690	1.0008	388.04	1.0782	1.1577
SDev	.024	.0006	.00103	.0007	.03	.0011	.0013
%RSD	.07731	.05054	.11256	.06974	.00718	.10430	.11457

#1	30.572	1.1450	.91763	1.0013	388.02	1.0790	1.1567
#2	30.605	1.1458	.91617	1.0003	388.06	1.0774	1.1586

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.89261	14.509	1.5696	.95581	1.0176	16.818	3.6087
SDev	.00228	.009	.0012	.00569	.0021	.002	.0036
%RSD	.25539	.06084	.07870	.59538	.20823	.01457	.10038

#1	.89422	14.503	1.5688	.95179	1.0191	16.816	3.6112
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Analysis Report 03/28/12 03:19:11 PM page 22

#2	.89100	14.515	1.5705	.95984	1.0161	16.819	3.6061
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Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47084	48.932	47.071	1.3114	1.0285	.95537	1.3824
SDev	.00060	.229	.099	.0004	.0025	.00661	.0010
%RSD	.12644	.46823	.21048	.02758	.24778	.69230	.06993

#1	.47126	49.094	47.141	1.3111	1.0267	.96004	1.3817
#2	.47042	48.770	47.001	1.3116	1.0303	.95069	1.3831

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.5563	1.0782	1.0735	1.1998	.84351	.91716	

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SDev	.0014	.0007	.0028	.0034	.00078	.00303	
%RSD	.09208	.06376	.26300	.28348	.09271	.33020	
#1	1.5553	1.0777	1.0755	1.1974	.84406	.91930	
#2	1.5573	1.0787	1.0715	1.2022	.84295	.91502	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	39812	--	--	--	--	--	--
SDev	24.04163	--	--	--	--	--	--
%RSD	.0603879	--	--	--	--	--	--
#1	39829	--	--	--	--	--	--
#2	39795	--	--	--	--	--	--

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Method: 20076010 Sample Name: SD 600-52645-c-4-a@5 Operator: DCL  
Run Time: 03/28/12 15:19:14  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	35.006	.00268	.03292	.27643	.00125	.01890	-.00301
SDev	.159	.00031	.00186	.00082	.00001	.00068	.00013
%RSD	.45339	11.436	5.6405	.29809	.37651	3.6218	4.3766
#1	35.118	.00247	.03161	.27701	.00125	.01939	-.00311
#2	34.893	.00290	.03423	.27584	.00124	.01842	-.00292
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.6396	.05265	.00430	.01773	79.103	.01512	.04761
SDev	.0133	.00013	.00017	.00035	.173	.00011	.00034
%RSD	.28579	.23795	3.9513	1.9611	.21825	.72961	.72403
#1	4.6490	.05273	.00418	.01798	79.225	.01520	.04785
#2	4.6302	.05256	.00442	.01749	78.981	.01504	.04737
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00018	1.2597	.14152	.00358	.00912	1.2930	.58775

Analysis Report 03/28/12 03:23:02 PM page 23

SDev	.00208	.0033	.00040	.00183	.00014	.0029	.00260
%RSD	1144.8	.26498	.27891	51.229	1.5404	.22367	.44191
#1	.00165	1.2620	.14180	.00488	.00902	1.2951	.58959
#2	-.00129	1.2573	.14124	.00228	.00922	1.2910	.58591
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00077	7.5305	7.1353	.16988	.00509	.00604	.09435
SDev	.00020	.0157	.0425	.00043	.00254	.00055	.00029
%RSD	25.452	.20896	.59597	.25073	49.950	9.0704	.30613
#1	-.00091	7.5194	7.1654	.17018	.00689	.00643	.09456
#2	-.00063	7.5417	7.1053	.16958	.00329	.00565	.09415
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	



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Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14002	.02851	.04154	.05064	-.01281	.00668	
SDev	.00059	.00042	.00108	.00106	.00055	.00284	
%RSD	.41934	1.4678	2.6044	2.0891	4.3242	42.561	
#1	.14043	.02881	.04078	.05139	-.01242	.00869	
#2	.13960	.02821	.04231	.04990	-.01321	.00467	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38547	--	--	--	--	--	--
SDev	5.656854	--	--	--	--	--	--
%RSD	.0146752	--	--	--	--	--	--
#1	38551	--	--	--	--	--	--
#2	38543	--	--	--	--	--	--

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Method: 20076010 Sample Name: CCV met0312ccv\_00005 Operator: DCL  
Run Time: 03/28/12 15:23:05  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4792	.52510	.51132	.52980	.47011	.51086	.53999
SDev	.0075	.00114	.00403	.00208	.00192	.00006	.00136
%RSD	.30449	.21791	.78882	.39190	.40877	.01170	.25088

#1	2.4846	.52591	.51417	.53127	.47147	.51091	.54095
#2	2.4739	.52429	.50847	.52834	.46876	.51082	.53903

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.493	.48219	.48211	.47477	2.6247	.49128	.50432
SDev	.045	.00167	.00157	.00096	.0072	.00124	.00087
%RSD	.35884	.34534	.32622	.20185	.27361	.25279	.17190

#1	12.524	.48336	.48323	.47544	2.6196	.49216	.50494
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Analysis Report 03/28/12 03:26:53 PM page 24

#2	12.461	.48101	.48100	.47409	2.6298	.49040	.50371
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Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49890	4.8727	.48734	.51387	.52288	13.125	.93294
SDev	.00081	.0203	.00158	.00169	.00194	.065	.00083
%RSD	.16238	.41727	.32456	.32786	.37187	.49905	.08944

#1	.49833	4.8871	.48846	.51268	.52425	13.171	.93353
#2	.49947	4.8584	.48622	.51506	.52150	13.078	.93235

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24793	12.818	12.586	.26616	.55412	.50063	.50960
SDev	.00006	.122	.015	.00099	.00077	.00256	.00154
%RSD	.02504	.95019	.11948	.37153	.13840	.51185	.30234

#1	.24789	12.732	12.596	.26686	.55358	.50244	.51069
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%RSD	56.270	91.775	45.563	4.1351	9.7292	8.0421	36.000
#1	-.00024	-.20315	.02953	.00011	.00223	-.00149	.00059
#2	-.00055	-.04325	.01514	.00012	.00194	-.00133	.00035
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00106	.00193	.00010	.00090	-.00638	.00401	
SDev	.00003	.00001	.00049	.00136	.00109	.00088	
%RSD	2.9866	.70163	493.69	151.07	17.100	21.820	
#1	.00108	.00192	.00045	.00187	-.00715	.00463	
#2	.00104	.00194	-.00025	-.00006	-.00561	.00339	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38864	--	--	--	--	--	--
SDev	1116.522	--	--	--	--	--	--
%RSD	2.872857	--	--	--	--	--	--
#1	38075	--	--	--	--	--	--
#2	39654	--	--	--	--	--	--

Analysis Report

03/28/12 05:35:49 PM

page 1

Method: 20076010 Sample Name: 600-52143-b-2-e msd Operator: DCL

Run Time: 03/28/12 17:32:01

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.620	1.1674	1.1267	2.0865	.42971	1.3124	.57513
SDev	.082	.0004	.0012	.0140	.00018	.0039	.00170
%RSD	.70568	.03365	.10997	.67111	.04308	.29378	.29614

#1	11.678	1.1676	1.1259	2.0964	.42958	1.3152	.57392
#2	11.562	1.1671	1.1276	2.0766	.42984	1.3097	.57633

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2175.7	.90975	.93383	3.3627	32.956	.84310	.96188
SDev	24.3	.00039	.00038	.0279	.019	.00830	.01000
%RSD	1.1149	.04245	.04044	.83105	.05691	.98392	1.0399

#1	2158.6	.90948	.93409	3.3825	32.969	.84897	.95481
#2	2192.9	.91002	.93356	3.3430	32.942	.83724	.96895

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0319	1067.0	31.528	1.0370	.97285	42.442	12.877
SDev	.0148	4.5	.029	.0072	.00474	.109	.044
%RSD	1.4298	.42602	.09321	.69709	.48761	.25598	.33850

#1	1.0214	1063.8	31.507	1.0319	.97621	42.519	12.908
#2	1.0423	1070.3	31.548	1.0421	.96950	42.365	12.846

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm



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Avge	.60387	2181.8	916.82	33.497	1.0878	1.0044	.98985
SDev	.00424	21.5	9.43	.035	.0077	.0002	.00388
%RSD	.70233	.98469	1.0290	.10539	.70682	.01688	.39168

#1	.60687	2197.0	923.49	33.472	1.0824	1.0043	.99259
#2	.60087	2166.6	910.15	33.522	1.0932	1.0046	.98711

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.96865	1.1032	.90658	.98953	.99093	1.0523	
SDev	.00079	.0008	.00843	.01079	.00831	.0180	
%RSD	.08116	.06899	.92993	1.0902	.83909	1.7079	

#1	.96920	1.1037	.90062	.98190	.98505	1.0396	
#2	.96809	1.1026	.91254	.99716	.99681	1.0650	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30858	--	--	--	--	--	--
SDev	294.1564	--	--	--	--	--	--
%RSD	.9532582	--	--	--	--	--	--

Analysis Report 03/28/12 05:35:49 PM page 2

#1	31066	--	--	--	--	--	--
#2	30650	--	--	--	--	--	--

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Method: 20076010 Sample Name: PDS 600-52143-b-2-b Operator: DCL  
Run Time: 03/28/12 17:35:52  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.459	1.1559	1.1178	2.0799	.42161	1.3042	.57337
SDev	.099	.0095	.0075	.0171	.00277	.0114	.00447
%RSD	.86570	.82483	.67137	.82050	.65803	.87687	.78049

#1	11.530	1.1626	1.1231	2.0920	.42357	1.3123	.57654
#2	11.389	1.1492	1.1124	2.0679	.41965	1.2962	.57021

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2196.0	.90512	.91791	3.3496	32.992	1.5065	.96406
SDev	15.1	.00620	.00706	.0280	.292	.0141	.01702
%RSD	.68824	.68455	.76898	.83726	.88431	.93626	1.7652

#1	2206.7	.90951	.92290	3.3694	33.198	1.5165	.97609
#2	2185.3	.90074	.91292	3.3298	32.786	1.4965	.95202

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0267	1080.7	31.696	1.0068	.95071	42.156	12.937
SDev	.0158	7.8	.235	.0073	.00855	.364	.102
%RSD	1.5362	.72453	.74250	.72691	.89951	.86398	.79139

#1	1.0379	1086.3	31.862	1.0119	.95676	42.414	13.009
#2	1.0156	1075.2	31.529	1.0016	.94466	41.899	12.865



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Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.59033	2188.3	913.39	33.534	1.0595	.98606	.97210
SDev	.00502	18.0	8.15	.258	.0061	.00797	.00731
%RSD	.84982	.82451	.89186	.76832	.57325	.80832	.75220
#1	.59388	2201.1	919.15	33.716	1.0638	.99170	.97727
#2	.58678	2175.6	907.63	33.352	1.0552	.98043	.96693
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.95156	1.0963	.91684	.98767	.99850	1.0408	
SDev	.00788	.0081	.00403	.02351	.01365	.0168	
%RSD	.82829	.73568	.43927	2.3807	1.3667	1.6174	
#1	.95714	1.1020	.91968	1.0043	1.0081	1.0527	
#2	.94599	1.0906	.91399	.97104	.98885	1.0289	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report 03/28/12 05:39:40 PM page 3

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30666	--	--	--	--	--	--
SDev	238.2950	--	--	--	--	--	--
%RSD	.7770784	--	--	--	--	--	--
#1	30497	--	--	--	--	--	--
#2	30834	--	--	--	--	--	--

Method: 20076010 Sample Name: SD 600-52143-b-2-b Operator: DCL  
 Run Time: 03/28/12 17:39:44  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09687	-.00019	.00542	.19713	-.00095	.03194	.02190
SDev	.00149	.00133	.00170	.00164	.00001	.00170	.00002
%RSD	1.5359	708.00	31.433	.83011	.83446	5.3384	.06895
#1	.09792	-.00113	.00421	.19829	-.00095	.03315	.02191
#2	.09582	.00075	.00662	.19597	-.00094	.03074	.02189
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	768.47	.00045	.00431	.42928	5.1713	.03600	.00138
SDev	6.63	.00038	.00040	.00377	.0346	.00041	.00026
%RSD	.86249	84.599	9.1670	.87809	.66931	1.1308	18.741
#1	773.15	.00072	.00403	.43194	5.1958	.03629	.00119
#2	763.78	.00018	.00459	.42661	5.1469	.03571	.00156
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00081	216.77	6.8751	.00357	.00395	3.1437	2.2378
SDev	.00253	1.95	.0546	.00193	.00089	.0638	.0166
%RSD	313.04	.89973	.79360	54.176	22.392	2.0308	.74144



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#1	-.00260	218.15	6.9136	.00493	.00333	3.1888	2.2495
#2	.00098	215.39	6.8365	.00220	.00458	3.0985	2.2261
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00075	386.05	282.95	5.0746	.00693	-.00131	-.00625
SDev	.00030	1.89	.90	.0319	.00105	.00028	.00012
%RSD	40.300	.48848	.31809	.62877	15.130	21.280	1.8520
#1	-.00096	387.38	283.59	5.0972	.00767	-.00151	-.00617
#2	-.00053	384.71	282.31	5.0521	.00619	-.00112	-.00633
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	-.00036	.00397	-.00045	.00229	-.00441	.00099	
SDev	.00001	.00010	.00152	.00038	.00452	.00154	
%RSD	3.5036	2.5320	336.35	16.367	102.45	155.35	
#1	-.00035	.00404	-.00153	.00256	-.00761	-.00010	

Analysis Report

03/28/12 05:43:32 PM

page 4

#2	-.00037	.00390	.00062	.00203	-.00122	.00208	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	35708	--	--	--	--	--	--
SDev	294.1564	--	--	--	--	--	--
%RSD	.8237830	--	--	--	--	--	--
#1	35500	--	--	--	--	--	--
#2	35916	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52330-c-1-a Operator: DCL  
Run Time: 03/28/12 17:43:35  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.36205	.00261	.00462	.10373	-.00080	.04782	.00018
SDev	.00039	.00136	.00045	.00032	.00000	.00067	.00007
%RSD	.10650	51.917	9.8289	.31330	.27647	1.4011	38.418
#1	.36232	.00165	.00430	.10396	-.00080	.04829	.00013
#2	.36177	.00357	.00494	.10350	-.00080	.04735	.00022
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	9.1601	.00375	.00053	.01092	.30619	.00681	.00187
SDev	.0820	.00033	.00003	.00037	.00551	.00009	.00051
%RSD	.89478	8.8037	5.4462	3.4122	1.8009	1.2450	27.370
#1	9.2181	.00399	.00055	.01118	.31009	.00687	.00151
#2	9.1021	.00352	.00051	.01065	.30229	.00675	.00224
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00000	1.2034	.01941	.00369	.00537	11.537	1.2546



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SDev	.00048	.0199	.00048	.00030	.00032	.028	.0021
%RSD	14132.	1.6571	2.4924	8.1995	5.9202	.24086	.16885
#1	-.00035	1.2175	.01975	.00347	.00559	11.557	1.2561
#2	.00034	1.1893	.01907	.00390	.00515	11.518	1.2531
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00039	14.041	12.931	.03011	.00097	-.00126	.00833
SDev	.00007	.200	.010	.00036	.00093	.00024	.00000
%RSD	18.210	1.4236	.08119	1.1890	94.956	19.107	.00622
#1	-.00034	14.182	12.938	.03036	.00032	-.00109	.00833
#2	-.00045	13.900	12.923	.02986	.00163	-.00143	.00833
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00474	.32714	.00081	.00240	-.00589	.00294	

Analysis Report

03/28/12 05:47:23 PM

page 5

SDev	.00041	.00110	.00171	.00009	.00213	.00034	
%RSD	8.6298	.33730	210.80	3.5849	36.157	11.524	
#1	.00503	.32793	-.00040	.00247	-.00740	.00318	
#2	.00445	.32636	.00202	.00234	-.00439	.00270	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38193	--	--	--	--	--	--
SDev	127.2792	--	--	--	--	--	--
%RSD	.3332528	--	--	--	--	--	--
#1	38103	--	--	--	--	--	--
#2	38283	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52378-c-1-a Operator: DCL  
Run Time: 03/28/12 17:47:26  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.9121	.00330	.00239	.05216	-.00097	.15357	-.00014
SDev	.0004	.00106	.00082	.00005	.00000	.00140	.00007
%RSD	.01533	32.290	34.148	.08700	.17163	.91020	51.338
#1	2.9124	.00254	.00297	.05219	-.00097	.15455	-.00019
#2	2.9118	.00405	.00181	.05213	-.00097	.15258	-.00009
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	137.45	.00133	.00078	.00360	.47908	.00911	.00960
SDev	.19	.00036	.00043	.00051	.00632	.00008	.00078
%RSD	.13736	27.305	55.393	14.121	1.3191	.91603	8.0888
#1	137.59	.00159	.00047	.00396	.47461	.00905	.00905
#2	137.32	.00107	.00108	.00324	.48355	.00917	.01014
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881



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Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	- .00040	28.585	.11639	.00680	.01250	22.753	4.7066
SDev	.00145	.021	.00009	.00047	.00032	.007	.0011
%RSD	364.76	.07332	.08057	6.8458	2.5793	.03191	.02355
#1	-.00143	28.600	.11646	.00713	.01228	22.758	4.7074
#2	.00063	28.571	.11633	.00647	.01273	22.748	4.7058
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00079	2017.0	903.65	.33671	.00216	.00371	.00425
SDev	.00062	6.0	11.29	.00029	.00083	.00049	.00009
%RSD	77.817	.29830	1.2489	.08633	38.605	13.122	2.0498
#1	-.00123	2021.3	911.63	.33692	.00275	.00405	.00419
#2	-.00036	2012.8	895.67	.33651	.00157	.00337	.00431

Analysis Report

03/28/12 05:51:14 PM

page 6

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00360	.09726	.00847	.01016	-.00063	-.00028	
SDev	.00028	.00001	.00110	.00061	.00167	.00135	
%RSD	7.6898	.00993	12.971	6.0548	265.83	473.85	
#1	.00340	.09727	.00769	.00973	-.00181	-.00124	
#2	.00379	.09725	.00924	.01060	.00055	.00067	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35403	--	--	--	--	--	--
SDev	48.08326	--	--	--	--	--	--
%RSD	.1358169	--	--	--	--	--	--
#1	35369	--	--	--	--	--	--
#2	35437	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52381-b-1-a Operator: DCL  
Run Time: 03/28/12 17:51:18  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.7111	.00167	.00366	.05075	-.00069	.01944	-.00031
SDev	.0098	.00010	.00059	.00018	.00001	.00067	.00016
%RSD	.36148	6.1240	16.172	.35088	1.7197	3.4229	52.230
#1	2.7180	.00160	.00407	.05062	-.00068	.01897	-.00019
#2	2.7041	.00174	.00324	.05087	-.00070	.01991	-.00042
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.280	.00501	.00055	.00609	1.7532	.00322	.00272
SDev	.096	.00023	.00011	.00007	.0142	.00000	.00038
%RSD	.47389	4.5622	20.681	1.1148	.80720	.09230	13.794
#1	20.212	.00485	.00063	.00604	1.7431	.00322	.00246
#2	20.348	.00518	.00047	.00614	1.7632	.00323	.00299

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Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00339	3.0145	.03639	.00944	.00582	4.5151	8.4497
SDev	.00074	.0178	.00020	.00011	.00027	.0331	.0270
%RSD	21.814	.58982	.56057	1.1377	4.5662	.73296	.31945
#1	.00286	3.0019	.03624	.00951	.00563	4.4917	8.4688
#2	.00391	3.0270	.03653	.00936	.00601	4.5385	8.4306
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00001	7.0657	6.7516	.10288	-.00154	.00097	.11335
SDev	.00025	.0411	.1062	.00024	.00309	.00048	.00125
Analysis Report				03/28/12 05:55:05 PM	page 7		
%RSD	3238.7	.58163	1.5723	.23430	200.37	49.901	1.0983
#1	-.00017	7.0366	6.8267	.10271	.00064	.00063	.11247
#2	.00018	7.0947	6.6766	.10305	-.00373	.00131	.11423
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	.00640	.15750	.00353	.00232	-.00214	.00615	
SDev	.00016	.00825	.00153	.00020	.00498	.00138	
%RSD	2.5841	5.2345	43.326	8.7375	233.06	22.521	
#1	.00628	.15167	.00245	.00246	-.00566	.00713	
#2	.00652	.16333	.00462	.00217	.00139	.00517	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	38078	--	--	--	--	--	--
SDev	213.5462	--	--	--	--	--	--
%RSD	.5608127	--	--	--	--	--	--
#1	38229	--	--	--	--	--	--
#2	37927	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52381-b-2-a Operator: DCL  
Run Time: 03/28/12 17:55:09  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	1.6727	.00389	.00385	.03110	-.00071	.02613	-.00017
SDev	.0258	.00126	.00161	.00019	.00000	.00166	.00002
%RSD	1.5446	32.263	41.754	.60266	.14023	6.3428	9.5961
#1	1.6910	.00478	.00272	.03124	-.00071	.02730	-.00016
#2	1.6544	.00300	.00499	.03097	-.00071	.02495	-.00018
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	25.189	.00358	.00073	.00461	1.1033	.00271	.00245
SDev	.099	.00018	.00014	.00044	.0152	.00009	.00073
%RSD	.39315	5.0073	19.638	9.5173	1.3818	3.4743	29.971



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#1	25.259	.00370	.00083	.00492	1.1141	.00277	.00297
#2	25.118	.00345	.00063	.00430	1.0925	.00264	.00193
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00037	3.4366	.02241	.01369	.00934	5.8006	6.2319
SDev	.00124	.0221	.00010	.00080	.00002	.0344	.0615
%RSD	331.23	.64269	.42535	5.8732	.24612	.59354	.98653
#1	-.00050	3.4522	.02247	.01313	.00933	5.8250	6.2754
#2	.00125	3.4210	.02234	.01426	.00936	5.7763	6.1885

Analysis Report

03/28/12 05:58:57 PM

page 8

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00010	8.4526	8.1446	.08176	-.00276	-.00049	.36426
SDev	.00059	.0750	.0219	.00035	.00007	.00126	.00622
%RSD	616.28	.88754	.26880	.42440	2.4364	258.32	1.7072
#1	.00032	8.5057	8.1600	.08200	-.00271	.00040	.36865
#2	-.00052	8.3996	8.1291	.08151	-.00280	-.00138	.35986
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00465	.15554	.00240	.00248	-.00419	.00265	
SDev	.00013	.00008	.00032	.00094	.00069	.00152	
%RSD	2.7095	.04887	13.554	37.907	16.370	57.146	
#1	.00456	.15559	.00263	.00314	-.00467	.00158	
#2	.00474	.15548	.00217	.00181	-.00370	.00373	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38162	--	--	--	--	--	--
SDev	128.6934	--	--	--	--	--	--
%RSD	.3372293	--	--	--	--	--	--
#1	38071	--	--	--	--	--	--
#2	38253	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52381-b-3-a Operator: DCL  
Run Time: 03/28/12 17:59:01  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0562	.00244	.00526	.03968	-.00073	.01498	-.00021
SDev	.0184	.00030	.00237	.00010	.00001	.00059	.00006
%RSD	1.7424	12.445	45.111	.26118	.78348	3.9060	27.525
#1	1.0692	.00266	.00358	.03976	-.00073	.01539	-.00017
#2	1.0432	.00223	.00694	.03961	-.00072	.01456	-.00025
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.056	.00213	-.00005	.00456	.59445	.00192	.00191
SDev	.057	.00013	.00023	.00017	.00154	.00006	.00039



file:///c:/tjadata/temp/a032812.TXT

%RSD	.28552	6.2729	445.98	3.6337	.25909	3.3040	20.358
#1	20.097	.00223	-.00021	.00444	.59554	.00196	.00164
#2	20.016	.00204	.00011	.00468	.59336	.00187	.00219
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00122	2.4092	.01406	.00639	.00164	4.4752	6.0383
SDev	.00003	.0056	.00007	.00081	.00040	.0196	.0669
%RSD	2.2147	.23421	.46934	12.749	24.616	.43752	1.1085
Analysis Report				03/28/12 06:02:49 PM		page 9	

#1	.00124	2.4132	.01411	.00582	.00135	4.4891	6.0856
#2	.00120	2.4053	.01401	.00697	.00193	4.4614	5.9909
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00053	3.8198	3.5500	.06698	.00231	-.00101	.04822
SDev	.00027	.0100	.0070	.00025	.00066	.00008	.00028
%RSD	51.307	.26294	.19631	.37210	28.550	7.9544	.58708
#1	-.00072	3.8127	3.5549	.06716	.00278	-.00107	.04842
#2	-.00034	3.8269	3.5451	.06681	.00185	-.00095	.04802
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00342	.08676	.00065	.00255	-.00620	.00493	
SDev	.00014	.00037	.00105	.00006	.00538	.00265	
%RSD	4.0155	.42926	162.79	2.3032	86.790	53.741	
#1	.00333	.08702	-.00010	.00251	-.00239	.00306	
#2	.00352	.08650	.00139	.00259	-.01000	.00680	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38539	--	--	--	--	--	--
SDev	18.38478	--	--	--	--	--	--
%RSD	.0477043	--	--	--	--	--	--
#1	38526	--	--	--	--	--	--
#2	38552	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52381-b-4-a Operator: DCL  
Run Time: 03/28/12 18:02:52  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.44874	.00121	.00307	.02109	-.00075	.00428	-.00015
SDev	.00003	.00072	.00010	.00002	.00001	.00023	.00009
%RSD	.00567	59.346	3.2814	.08193	1.3899	5.3933	64.051
#1	.44872	.00172	.00299	.02110	-.00074	.00444	-.00022
#2	.44875	.00071	.00314	.02108	-.00076	.00411	-.00008
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm



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Avg	8.7462	.00886	-.00015	.00258	.36177	.00207	.00190
SDev	.0200	.00023	.00003	.00032	.00399	.00005	.00028
%RSD	.22833	2.5682	18.351	12.405	1.1032	2.4787	14.501
#1	8.7604	.00870	-.00013	.00281	.36459	.00211	.00170
#2	8.7321	.00902	-.00017	.00235	.35895	.00204	.00209
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881

Analysis Report 03/28/12 06:06:40 PM page 10

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00076	1.1093	.03069	.00257	.00441	2.1030	1.5641
SDev	.00010	.0030	.00008	.00026	.00002	.0155	.0124
%RSD	12.882	.26752	.26196	10.301	.51611	.73878	.79582
#1	.00083	1.1114	.03075	.00238	.00442	2.1139	1.5729
#2	.00070	1.1072	.03063	.00276	.00439	2.0920	1.5553
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00018	8.5502	7.8992	.03890	-.00109	.00024	.03105
SDev	.00002	.1351	.0082	.00006	.00456	.00072	.00127
%RSD	13.414	1.5805	.10436	.16196	416.17	301.45	4.0749
#1	-.00016	8.6458	7.9051	.03894	-.00432	-.00027	.03016
#2	-.00020	8.4546	7.8934	.03885	.00213	.00075	.03194
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00209	.12945	.00145	.00212	-.00545	.00387	
SDev	.00013	.00027	.00021	.00031	.00049	.00040	
%RSD	6.3438	.20956	14.198	14.605	9.0859	10.211	
#1	.00200	.12965	.00131	.00190	-.00580	.00415	
#2	.00219	.12926	.00160	.00234	-.00510	.00359	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	38426	--	--	--	--	--	--
SDev	26.16295	--	--	--	--	--	--
%RSD	.0680857	--	--	--	--	--	--
#1	38408	--	--	--	--	--	--
#2	38445	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52391-b-1-a Operator: DCL  
Run Time: 03/28/12 18:06:43  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.61988	.00181	.00326	.03003	-.00058	.02274	-.00010
SDev	.00280	.00260	.00152	.00015	.00000	.00080	.00003
%RSD	.45235	143.62	46.644	.49507	.03890	3.5043	30.524
#1	.62187	-.00003	.00433	.03013	-.00058	.02331	-.00008
#2	.61790	.00365	.00218	.02992	-.00058	.02218	-.00013



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Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	112.03	.00173	.03668	.00811	.39285	.00352	.00220
SDev	.34	.00034	.00021	.00040	.00787	.00001	.00076
%RSD	.30586	19.634	.58403	4.9687	2.0044	.33444	34.599
Analysis Report				03/28/12 06:10:31 PM		page 11	
#1	112.27	.00197	.03653	.00839	.38728	.00353	.00166
#2	111.79	.00149	.03683	.00782	.39842	.00352	.00274
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00100	2.1603	.03170	.52904	.02884	3.1444	1.8414
SDev	.00072	.0040	.00020	.00047	.00016	.0190	.0104
%RSD	71.878	.18291	.64240	.08931	.57207	.60344	.56678
#1	-.00151	2.1631	.03184	.52870	.02873	3.1578	1.8487
#2	-.00049	2.1575	.03155	.52937	.02896	3.1309	1.8340
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00032	5.9692	5.6078	.14935	.00115	-.00062	.00813
SDev	.00030	.0441	.0203	.00053	.00066	.00050	.00052
%RSD	92.438	.73874	.36279	.35323	56.859	80.606	6.3597
#1	.00011	6.0004	5.6221	.14972	.00162	-.00098	.00849
#2	.00053	5.9380	5.5934	.14897	.00069	-.00027	.00776
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	.00358	.12262	.00174	.00244	-.00333	.00017	
SDev	.00001	.00015	.00246	.00008	.00288	.00036	
%RSD	.22557	.12542	141.45	3.4666	86.361	217.17	
#1	.00358	.12273	-.00000	.00250	-.00537	.00042	
#2	.00359	.12251	.00347	.00238	-.00130	-.00009	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	37994	--	--	--	--	--	--
SDev	75.66042	--	--	--	--	--	--
%RSD	.1991352	--	--	--	--	--	--
#1	37941	--	--	--	--	--	--
#2	38048	--	--	--	--	--	--
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Method:	20076010	Sample Name:	CCV met0312ccv_00005	Operator:	DCL		
Run Time:	03/28/12 18:10:34						
Comment:	TRACE 61E						
Mode:	CONC	Corr. Factor:	1				
Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	2.4831	.52589	.50802	.52600	.46959	.50656	.53644
SDev	.0018	.00498	.00349	.00382	.00500	.00366	.00600
%RSD	.07257	.94623	.68788	.72700	1.0657	.72287	1.1178

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#1	2.4844	.52941	.51049	.52871	.47313	.50915	.54068
#2	2.4818	.52238	.50555	.52330	.46605	.50397	.53220

Analysis Report

03/28/12 06:14:22 PM

page 12

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	12.456	.48319	.48635	.47753	2.6156	.48697	.50586
SDev	.127	.00447	.00510	.00165	.0431	.00248	.00828
%RSD	1.0177	.92561	1.0492	.34567	1.6493	.50921	1.6377

#1	12.546	.48635	.48996	.47869	2.6461	.48872	.51172
#2	12.367	.48003	.48274	.47636	2.5851	.48522	.50000

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.50111	4.8738	.48875	.51138	.53389	12.919	.93750
SDev	.00604	.0624	.00435	.00231	.00770	.151	.00736
%RSD	1.2043	1.2799	.89058	.45182	1.4429	1.1702	.78500

#1	.50538	4.9179	.49183	.51301	.53933	13.026	.94271
#2	.49684	4.8297	.48568	.50974	.52844	12.812	.93230

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.24762	12.756	12.529	.26482	.55306	.50345	.50727
SDev	.00274	.146	.005	.00224	.00356	.00687	.00462
%RSD	1.1081	1.1472	.03693	.84751	.64433	1.3640	.91116

#1	.24956	12.860	12.532	.26640	.55054	.50830	.51053
#2	.24568	12.653	12.525	.26323	.55558	.49859	.50400

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.49163	.52751	.48003	.51877	.47959	.51193
SDev	.00490	.00485	.00777	.00854	.00628	.00592
%RSD	.99686	.91929	1.6178	1.6469	1.3086	1.1554

#1	.49509	.53094	.48552	.52482	.48403	.51611
#2	.48816	.52408	.47454	.51273	.47515	.50774

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	38525	--	--	--	--	--	--
SDev	469.5189	--	--	--	--	--	--
%RSD	1.218738	--	--	--	--	--	--

#1	38193	--	--	--	--	--	--
#2	38857	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL

Run Time: 03/28/12 18:14:25

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

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Avge	.06949	.00157	.00322	.00009	-.00070	-.00780	-.00029
SDev	.00165	.00121	.00067	.00010	.00002	.00015	.00018
Analysis Report				03/28/12 06:18:13 PM		page 13	
%RSD	2.3791	77.163	20.849	109.88	2.9985	1.9817	63.228
#1	.07066	.00242	.00275	.00015	-.00068	-.00769	-.00016
#2	.06832	.00071	.00370	.00002	-.00071	-.00790	-.00042
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01022	.00031	-.00083	-.00244	-.02814	.00050	-.00033
SDev	.00086	.00048	.00039	.00035	.02343	.00013	.00038
%RSD	8.4054	152.54	46.283	14.455	83.241	25.886	114.13
#1	-.00961	.00065	-.00056	-.00219	-.01158	.00059	-.00006
#2	-.01083	-.00002	-.00111	-.00269	-.04471	.00041	-.00060
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00053	.02435	.00008	.00259	-.00064	.19359	-.00758
SDev	.00073	.00715	.00006	.00099	.00040	.04679	.00015
%RSD	137.76	29.373	71.853	38.238	61.415	24.167	1.9594
#1	.00001	.02941	.00012	.00329	-.00036	.22667	-.00748
#2	.00104	.01929	.00004	.00189	-.00092	.16051	-.00769
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00105	-.23474	.03274	.00004	.00073	-.00103	.00026
SDev	.00038	.14012	.00534	.00003	.00237	.00107	.00013
%RSD	36.542	59.694	16.321	82.610	324.36	103.51	50.916
#1	-.00078	-.13565	.03652	.00006	.00240	-.00028	.00035
#2	-.00132	-.33382	.02897	.00002	-.00094	-.00179	.00016
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00033	.00028	-.00014	-.00042	-.00300	.00229	
SDev	.00014	.00002	.00262	.00187	.00166	.00026	
%RSD	42.433	7.5886	1848.4	441.85	55.524	11.185	
#1	.00043	.00027	-.00199	.00090	-.00418	.00211	
#2	.00023	.00030	.00171	-.00175	-.00182	.00247	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39004	--	--	--	--	--	--
SDev	152.0280	--	--	--	--	--	--
%RSD	.3897803	--	--	--	--	--	--
#1	38896	--	--	--	--	--	--
#2	39111	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52391-b-1-b du Operator: DCL  
Run Time: 03/28/12 18:18:16  
Comment: TRACE 61E

file:///c:/tjadata/temp/a032812.TXT

Analysis Report

03/28/12 06:22:04 PM

page 14

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.76277	.00176	.00364	.03142	-.00052	.02348	-.00018
SDev	.00566	.00085	.00020	.00001	.00001	.00028	.00005
%RSD	.74268	48.568	5.3989	.04342	1.9139	1.1740	29.017

#1	.76677	.00115	.00378	.03142	-.00051	.02329	-.00022
#2	.75876	.00236	.00350	.03141	-.00053	.02368	-.00014

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	114.02	.00178	.03706	.01424	.46625	.00359	.00225
SDev	.09	.00011	.00022	.00064	.01019	.00001	.00076
%RSD	.08255	5.9209	.58151	4.4641	2.1849	.40161	33.837

#1	113.95	.00170	.03691	.01469	.47345	.00358	.00279
#2	114.08	.00185	.03721	.01379	.45904	.00360	.00172

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00038	2.2020	.03252	.54293	.02938	3.1900	2.1294
SDev	.00252	.0025	.00007	.00172	.00040	.0025	.0096
%RSD	657.99	.11570	.21576	.31731	1.3690	.07856	.45022

#1	.00217	2.2002	.03257	.54171	.02910	3.1882	2.1362
#2	-.00140	2.2038	.03247	.54415	.02966	3.1917	2.1226

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00038	5.9605	5.6942	.15198	-.00057	-.00125	.01346
SDev	.00020	.1237	.0220	.00013	.00316	.00039	.00002
%RSD	52.926	2.0761	.38693	.08397	557.39	31.182	.16631

#1	-.00024	6.0480	5.7097	.15189	.00167	-.00153	.01344
#2	-.00052	5.8730	5.6786	.15207	-.00280	-.00098	.01347

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00349	.12877	.00284	.00196	-.00345	.00230
SDev	.00006	.00008	.00002	.00115	.00143	.00307
%RSD	1.5876	.06431	.77145	58.887	41.555	133.39

#1	.00353	.12871	.00282	.00278	-.00244	.00447
#2	.00345	.12883	.00286	.00115	-.00446	.00013

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	38108	--	--	--	--	--	--
SDev	105.3589	--	--	--	--	--	--
%RSD	.2764781	--	--	--	--	--	--
#1	38182	--	--	--	--	--	--
#2	38033	--	--	--	--	--	--

Analysis Report

03/28/12 06:22:04 PM

page 15



file:///c:/tjadata/temp/a032812.TXT

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 Method: 20076010 Sample Name: 600-52391-b-1-c ms Operator: DCL  
 Run Time: 03/28/12 18:22:07  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.072	1.1199	1.0782	1.1404	.49388	1.1370	.55110
SDev	.043	.0048	.0014	.0035	.00108	.0015	.00155
%RSD	.38907	.42954	.12880	.31068	.21860	.12944	.28201

#1	11.102	1.1233	1.0792	1.1429	.49464	1.1380	.55220
#2	11.041	1.1165	1.0772	1.1379	.49311	1.1360	.55001

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	121.64	1.0112	1.0611	1.0127	11.289	.54182	1.0514
SDev	.37	.0028	.0034	.0032	.028	.00247	.0028
%RSD	.30049	.27806	.31686	.31837	.25151	.45587	.26805

#1	121.90	1.0132	1.0635	1.0150	11.309	.54356	1.0534
#2	121.39	1.0092	1.0588	1.0104	11.269	.54007	1.0494

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0328	12.366	1.0718	1.6304	1.1405	14.740	3.2773
SDev	.0020	.028	.0029	.0006	.0054	.086	.0200
%RSD	.19295	.22947	.27396	.03390	.47251	.58240	.61037

#1	1.0343	12.386	1.0739	1.6308	1.1443	14.800	3.2914
#2	1.0314	12.346	1.0697	1.6300	1.1366	14.679	3.2631

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.52895	16.729	17.022	.70763	1.1504	1.0540	1.0732
SDev	.00142	.127	.090	.00248	.0009	.0035	.0043
%RSD	.26868	.75704	.52786	.35057	.08020	.33593	.39733

#1	.52995	16.819	17.086	.70939	1.1510	1.0565	1.0763
#2	.52794	16.640	16.958	.70588	1.1497	1.0515	1.0702

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0391	1.2214	.99922	1.0775	.99628	1.0511
SDev	.0029	.0034	.00258	.0029	.00853	.0013
%RSD	.28311	.27663	.25822	.27260	.85659	.12154

#1	1.0412	1.2238	1.0010	1.0796	1.0023	1.0502
#2	1.0371	1.2191	.99739	1.0754	.99024	1.0520

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	37752	--	--	--	--	--	--

Analysis Report

03/28/12 06:25:55 PM

page 16

file:///c:/tjadata/temp/a032812.TXT

SDev	187.3833	--	--	--	--	--	--
%RSD	.4963599	--	--	--	--	--	--
#1	37619	--	--	--	--	--	--
#2	37884	--	--	--	--	--	--

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Method: 20076010    Sample Name: 600-52391-b-1-d msd    Operator: DCL  
Run Time: 03/28/12 18:25:58  
Comment: TRACE 61E  
Mode: CONC    Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.993	1.1064	1.0723	1.1302	.49086	1.1213	.54591
SDev	.067	.0062	.0040	.0045	.00166	.0040	.00205
%RSD	.60607	.56218	.37151	.39570	.33710	.35881	.37534

#1	11.040	1.1108	1.0751	1.1334	.49203	1.1241	.54736
#2	10.946	1.1020	1.0695	1.1270	.48969	1.1184	.54446

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	120.29	1.0023	1.0517	1.0048	11.180	.53684	1.0454
SDev	.48	.0030	.0053	.0037	.055	.00239	.0038
%RSD	.39593	.30291	.50351	.36765	.49521	.44543	.36709

#1	120.62	1.0044	1.0555	1.0074	11.219	.53853	1.0481
#2	119.95	1.0001	1.0480	1.0022	11.141	.53515	1.0427

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0309	12.242	1.0618	1.6117	1.1231	14.596	3.2895
SDev	.0010	.055	.0041	.0091	.0025	.071	.0310
%RSD	.09444	.45202	.38658	.56340	.22582	.48959	.94239

#1	1.0316	12.281	1.0647	1.6182	1.1249	14.647	3.3114
#2	1.0302	12.203	1.0589	1.6053	1.1213	14.545	3.2676

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52463	16.606	16.856	.69977	1.1479	1.0403	1.0620
SDev	.00230	.133	.097	.00221	.0022	.0042	.0046
%RSD	.43768	.80127	.57619	.31527	.18733	.40267	.42874

#1	.52625	16.700	16.925	.70133	1.1463	1.0433	1.0653
#2	.52300	16.511	16.788	.69821	1.1494	1.0373	1.0588

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0293	1.2105	.99073	1.0727	.98907	1.0519
SDev	.0037	.0047	.00151	.0050	.00011	.0015
%RSD	.36346	.38687	.15234	.46625	.01060	.14383

#1	1.0320	1.2138	.99180	1.0763	.98900	1.0529
#2	1.0267	1.2071	.98966	1.0692	.98915	1.0508

Analysis Report

03/28/12 06:29:46 PM

page 17

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

file:///c:/tjadata/temp/a032812.TXT

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37998	--	--	--	--	--	--
SDev	67.17515	--	--	--	--	--	--
%RSD	.1767883	--	--	--	--	--	--
#1	37950	--	--	--	--	--	--
#2	38045	--	--	--	--	--	--

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Method: 20076010    Sample Name: 600-52391-b-2-a    Operator: DCL  
Run Time: 03/28/12 18:29:49  
Comment: TRACE 61E  
Mode: CONC    Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.3534	.00223	.01493	.03946	-.00047	.07722	.00027
SDev	.0253	.00086	.00237	.00036	.00001	.00158	.00006
%RSD	1.0745	38.469	15.862	.91518	1.3024	2.0503	20.147

#1	2.3713	.00284	.01661	.03972	-.00047	.07834	.00031
#2	2.3356	.00162	.01326	.03921	-.00048	.07610	.00023

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	108.80	.00276	.02619	.00827	.67434	.01013	.00332
SDev	.62	.00006	.00015	.00050	.00491	.00011	.00054
%RSD	.57192	2.0607	.57928	6.0136	.72812	1.1162	16.150

#1	109.24	.00280	.02629	.00862	.67782	.01021	.00370
#2	108.36	.00272	.02608	.00792	.67087	.01005	.00294

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00353	2.1132	.02509	.86572	.02326	2.9685	4.2323
SDev	.00068	.0151	.00018	.00517	.00012	.0305	.0461
%RSD	19.335	.71662	.73413	.59696	.49642	1.0273	1.0899

#1	.00401	2.1239	.02522	.86937	.02318	2.9901	4.2649
#2	.00305	2.1025	.02496	.86206	.02335	2.9470	4.1997

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00029	43.798	40.346	.17407	.00675	-.00102	.05014
SDev	.00012	.215	.221	.00097	.00178	.00015	.00141
%RSD	42.095	.49186	.54881	.55502	26.390	14.453	2.8141

#1	-.00020	43.951	40.503	.17475	.00801	-.00092	.05114
#2	-.00038	43.646	40.190	.17339	.00549	-.00113	.04914

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00517	.69206	.00303	.00347	-.00488	.00773
SDev	.00024	.00382	.00094	.00128	.00257	.00026
%RSD	4.6347	.55158	31.176	36.829	52.668	3.3664

Analysis Report

03/28/12 06:33:37 PM

page 18

#1	.00534	.69476	.00236	.00437	-.00306	.00755
#2	.00500	.68936	.00370	.00256	-.00669	.00792

file:///c:/tjadata/temp/a032812.TXT

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38092	--	--	--	--	--	--
SDev	97.58073	--	--	--	--	--	--
%RSD	.2561712	--	--	--	--	--	--
#1	38023	--	--	--	--	--	--
#2	38161	--	--	--	--	--	--

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Method: 20076010    Sample Name: 600-52437-b-1-a    Operator: DCL  
Run Time: 03/28/12 18:33:40  
Comment: TRACE 61E  
Mode: CONC    Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.86829	.00006	.00473	.00929	-.00069	.00310	-.00020
SDev	.00699	.00194	.00137	.00002	.00001	.00063	.00001
%RSD	.80468	3460.8	29.003	.18364	1.3764	20.444	4.5312

#1	.87323	.00143	.00376	.00928	-.00069	.00354	-.00019
#2	.86335	-.00131	.00570	.00930	-.00070	.00265	-.00021

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0553	.00128	.00001	.00262	.62034	.00160	.00523
SDev	.0135	.00002	.00014	.00051	.00257	.00003	.00121
%RSD	.26613	1.3244	1867.7	19.538	.41486	1.6387	23.158

#1	5.0648	.00127	.00011	.00298	.62216	.00162	.00609
#2	5.0458	.00129	-.00009	.00226	.61852	.00158	.00437

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00128	.44806	.01969	.00413	.00067	1.6346	1.7830
SDev	.00275	.00034	.00003	.00171	.00006	.0124	.0136
%RSD	214.92	.07505	.12674	41.400	8.9987	.76160	.76340

#1	-.00066	.44830	.01967	.00533	.00062	1.6434	1.7927
#2	.00322	.44782	.01971	.00292	.00071	1.6258	1.7734

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00025	4.6440	4.3443	.01201	.00102	.00012	.01164
SDev	.00002	.0453	.0085	.00001	.00111	.00050	.00076
%RSD	9.8730	.97586	.19468	.10156	109.02	421.77	6.5717

#1	-.00023	4.6120	4.3503	.01202	.00181	.00047	.01218
#2	-.00027	4.6761	4.3383	.01200	.00023	-.00023	.01110

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
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Analysis Report

03/28/12 06:37:28 PM

page 19

Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00244	.08493	.00471	.00549	-.00583	.00483
SDev	.00018	.00017	.00060	.00152	.00071	.00377
%RSD	7.4547	.20181	12.619	27.682	12.232	77.870
#1	.00231	.08481	.00513	.00656	-.00634	.00217

file:///c:/tjadata/temp/a032812.TXT

#2	.00257	.08505	.00429	.00441	-.00533	.00750	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38389	--	--	--	--	--	--
SDev	9.899495	--	--	--	--	--	--
%RSD	.0257873	--	--	--	--	--	--
#1	38396	--	--	--	--	--	--
#2	38382	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52530-a-2-a Operator: DCL  
Run Time: 03/28/12 18:37:31  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.9355	.00560	.00512	.08629	-.00064	.24168	.00016
SDev	.0053	.00031	.00112	.00007	.00001	.00154	.00018
%RSD	.17953	5.5089	21.928	.07982	2.2483	.63866	115.38

#1	2.9392	.00581	.00433	.08633	-.00063	.24277	.00003
#2	2.9318	.00538	.00592	.08624	-.00065	.24058	.00028

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	55.912	.00884	.00181	.03256	3.6933	.01689	.08668
SDev	.130	.00006	.00050	.00019	.0102	.00010	.00062
%RSD	.23270	.64198	27.672	.57038	.27551	.58838	.71463

#1	56.004	.00880	.00145	.03243	3.6862	.01696	.08624
#2	55.820	.00888	.00216	.03269	3.7005	.01682	.08712

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00180	2.3568	.10867	.00877	.00926	21.084	7.7779
SDev	.00444	.0033	.00009	.00001	.00089	.057	.0107
%RSD	246.60	.14169	.08522	.09549	9.5844	.27000	.13734

#1	.00494	2.3592	.10874	.00878	.00863	21.124	7.7854
#2	-.00134	2.3545	.10861	.00877	.00988	21.044	7.7703

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00034	33.520	31.223	.15776	.00092	.00947	.05695
SDev	.00070	.038	.084	.00021	.00218	.00007	.00006
%RSD	206.92	.11362	.26769	.13620	237.74	.72593	.10094

Analysis Report

03/28/12 06:41:19 PM

page 20

#1	-.00016	33.493	31.282	.15791	.00245	.00943	.05691
#2	.00084	33.547	31.164	.15760	-.00062	.00952	.05699

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00876	.47193	.08327	.08839	-.00378	.00459
SDev	.00020	.00043	.00168	.00009	.00290	.00521
%RSD	2.3156	.09178	2.0202	.09966	76.775	113.36



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#1	.00891	.47223	.08208	.08833	-.00173	.00827	
#2	.00862	.47162	.08446	.08845	-.00584	.00091	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39044	--	--	--	--	--	--
SDev	40.30509	--	--	--	--	--	--
%RSD	.1032312	--	--	--	--	--	--
#1	39015	--	--	--	--	--	--
#2	39072	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52550-d-1-a@50 Operator: DCL  
Run Time: 03/28/12 18:41:22  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07280	.00154	.00260	.00135	-.00072	-.00600	-.00019
SDev	.00358	.00095	.00059	.00006	.00000	.00051	.00015
%RSD	4.9112	61.316	22.687	4.8578	.10429	8.5054	80.119

#1	.07027	.00087	.00218	.00130	-.00072	-.00636	-.00008
#2	.07533	.00221	.00301	.00139	-.00072	-.00564	-.00030

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1419	.00030	.00009	-.00219	.07954	.00072	.00088
SDev	.0080	.00047	.00003	.00040	.00703	.00001	.00015
%RSD	.70383	154.78	31.506	18.370	8.8325	1.7894	17.392

#1	1.1476	-.00003	.00007	-.00247	.08451	.00071	.00077
#2	1.1362	.00063	.00011	-.00190	.07458	.00073	.00099

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00101	.16518	.00187	.00089	-.00007	11.046	.06068
SDev	.00145	.00002	.00006	.00113	.00024	.061	.00216
%RSD	144.54	.01336	3.2552	126.50	336.06	.55368	3.5643

#1	.00203	.16517	.00183	.00169	.00010	11.089	.05916
#2	-.00002	.16520	.00192	.00009	-.00024	11.003	.06221

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Analysis Report 03/28/12 06:45:10 PM page 21

Avge	.00005	40.735	36.948	.00683	.00036	.00020	.00028
SDev	.00025	.155	.243	.00001	.00143	.00064	.00016
%RSD	535.82	.37938	.65894	.18774	396.88	320.39	55.429

#1	.00022	40.844	37.120	.00682	-.00065	.00065	.00017
#2	-.00013	40.625	36.776	.00684	.00137	-.00025	.00039

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00022	.00649	.00265	.00000	-.00408	.00355	

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SDev	.00051	.00013	.00399	.00176	.00278	.00357	
%RSD	235.19	2.0404	150.71	103070.	68.202	100.64	
#1	-.00014	.00640	-.00017	.00125	-.00605	.00608	
#2	.00058	.00659	.00546	-.00124	-.00211	.00102	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38504	--	--	--	--	--	--
SDev	31.81980	--	--	--	--	--	--
%RSD	.0826413	--	--	--	--	--	--
#1	38526	--	--	--	--	--	--
#2	38481	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52554-c-12-a Operator: DCL  
Run Time: 03/28/12 18:45:13  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1286	.00226	.00745	.02641	-.00060	.01824	-.00015
SDev	.0163	.00165	.00014	.00014	.00000	.00071	.00014
%RSD	1.4473	73.026	1.8375	.54084	.13243	3.9120	92.595

#1	1.1401	.00343	.00755	.02651	-.00060	.01875	-.00025
#2	1.1170	.00109	.00736	.02631	-.00060	.01774	-.00005

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.901	.00309	.00019	.01248	.66435	.00217	.00145
SDev	.086	.00019	.00023	.00022	.00785	.00003	.00059
%RSD	.41121	6.0712	121.83	1.7704	1.1815	1.5100	40.195

#1	20.962	.00322	.00035	.01263	.66990	.00220	.00187
#2	20.841	.00296	.00003	.01232	.65880	.00215	.00104

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00221	1.8824	.02658	.01674	.00362	3.0976	3.9239
SDev	.00099	.0108	.00011	.00021	.00064	.0218	.0230
%RSD	44.577	.57405	.40536	1.2307	17.828	.70481	.58709

#1	.00291	1.8901	.02666	.01660	.00316	3.1131	3.9402
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Analysis Report 03/28/12 06:49:01 PM page 22

#2	.00152	1.8748	.02651	.01689	.00408	3.0822	3.9076
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Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00001	6.1783	5.6762	.05523	-.00053	-.00009	.02302
SDev	.00012	.0323	.0310	.00029	.00099	.00047	.00236
%RSD	1161.7	.52211	.54557	.53252	187.53	539.06	10.259

#1	-.00010	6.1555	5.6981	.05544	.00017	.00025	.02469
#2	.00008	6.2011	5.6543	.05502	-.00123	-.00042	.02135

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
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Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01356	.11745	.00096	.00170	-.00655	.00659	
SDev	.00012	.00004	.00061	.00057	.00051	.00122	
%RSD	.88829	.03669	63.660	33.598	7.8184	18.572	
#1	.01348	.11748	.00139	.00211	-.00618	.00746	
#2	.01365	.11742	.00053	.00130	-.00691	.00573	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38192	--	--	--	--	--	--
SDev	40.30509	--	--	--	--	--	--
%RSD	.1055314	--	--	--	--	--	--
#1	38164	--	--	--	--	--	--
#2	38221	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52554-d-13-a Operator: DCL  
Run Time: 03/28/12 18:49:05  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53078	.00512	.02128	.15258	-.00078	.33059	.00068
SDev	.00217	.00062	.00322	.00031	.00000	.00111	.00006
%RSD	.40951	12.028	15.108	.20368	.33071	.33469	9.1852

#1	.53231	.00556	.02356	.15236	-.00078	.32981	.00064
#2	.52924	.00468	.01901	.15280	-.00078	.33138	.00073

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	113.79	.01287	.00064	.02806	.81198	.02554	.00632
SDev	.13	.00012	.00012	.00066	.00218	.00009	.00035
%RSD	.11411	.89958	18.545	2.3654	.26892	.34579	5.6115

#1	113.70	.01278	.00055	.02853	.81352	.02548	.00657
#2	113.88	.01295	.00072	.02759	.81043	.02561	.00607

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00230	11.731	.03728	.01591	.04316	29.318	6.8429

Analysis Report 03/28/12 06:52:53 PM page 23

SDev	.00212	.023	.00024	.00104	.00011	.015	.0124
%RSD	92.141	.19854	.64425	6.5377	.26245	.04970	.18153

#1	.00381	11.715	.03711	.01518	.04308	29.328	6.8341
#2	.00080	11.748	.03745	.01665	.04324	29.308	6.8517

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00006	782.22	473.18	.88830	.00081	-.00039	.00984
SDev	.00023	1.01	3.16	.00074	.00083	.00079	.00070
%RSD	375.80	.12863	.66831	.08331	103.30	202.12	7.1028

#1	-.00023	781.51	475.42	.88778	.00022	.00017	.01033
#2	.00010	782.93	470.95	.88882	.00139	-.00095	.00934

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Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01782	.79405	.00584	.00656	-.00201	.00446
SDev	.00030	.00098	.00049	.00078	.00292	.00172
%RSD	1.6786	.12314	8.4389	11.866	145.06	38.628

#1	.01803	.79336	.00549	.00711	.00005	.00568
#2	.01761	.79474	.00618	.00601	-.00408	.00324

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36640	--	--	--	--	--	--
SDev	70.00357	--	--	--	--	--	--
%RSD	.1910552	--	--	--	--	--	--

#1	36591	--	--	--	--	--	--
#2	36690	--	--	--	--	--	--

Method: 20076010 Sample Name: 600-52562-b-2-a Operator: DCL  
 Run Time: 03/28/12 18:52:56  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.72350	.00882	.00469	.17267	-.00087	.31750	.00044
SDev	.00275	.00141	.00272	.00028	.00001	.00092	.00006
%RSD	.38014	15.975	58.116	.16236	1.3790	.28894	12.830

#1	.72545	.00982	.00662	.17287	-.00088	.31815	.00048
#2	.72156	.00783	.00276	.17247	-.00086	.31685	.00040

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	471.91	.41354	.00075	.00332	.05283	.02760	.00085
SDev	1.21	.00115	.00009	.00022	.00881	.00001	.00054
%RSD	.25572	.27871	12.236	6.6139	16.674	.04665	63.275

#1	472.77	.41436	.00082	.00316	.05905	.02761	.00123
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Analysis Report 03/28/12 06:56:44 PM page 24

#2	471.06	.41273	.00069	.00347	.04660	.02759	.00047
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Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00472	2.9077	.01683	1.4070	.05649	140.90	6.5865
SDev	.00027	.0090	.00007	.0023	.00016	.39	.0132
%RSD	5.7168	.30879	.39181	.16596	.28976	.27681	.20105

#1	.00492	2.9141	.01688	1.4054	.05660	141.18	6.5959
#2	.00453	2.9014	.01678	1.4087	.05637	140.62	6.5772

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00016	600.61	392.76	1.4021	.00348	.00097	-.00274
SDev	.00010	1.85	1.42	.0026	.00426	.00013	.00001
%RSD	64.613	.30880	.36191	.18444	122.43	13.835	.44210

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#1	-.00009	601.93	393.76	1.4039	.00649	.00106	-.00273
#2	-.00023	599.30	391.75	1.4002	.00047	.00087	-.00274
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00577	.33272	.00070	.00092	.00102	.00657	
SDev	.00017	.00037	.00230	.00035	.00083	.00001	
%RSD	2.9026	.11153	326.99	37.914	80.937	.19057	
#1	.00589	.33298	.00233	.00067	.00160	.00656	
#2	.00565	.33246	-.00092	.00116	.00044	.00658	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	35900	--	--	--	--	--	--
SDev	95.45942	--	--	--	--	--	--
%RSD	.2659074	--	--	--	--	--	--
#1	35832	--	--	--	--	--	--
#2	35967	--	--	--	--	--	--

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Method: 20076010 Sample Name: CCV met0312ccv\_00005 Operator: DCL  
 Run Time: 03/28/12 18:56:48  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.4780	.52463	.50537	.52377	.47304	.50581	.53336
SDev	.0200	.00050	.00277	.00204	.00045	.00194	.00065
%RSD	.80870	.09507	.54801	.39004	.09598	.38277	.12123
#1	2.4922	.52499	.50733	.52521	.47336	.50717	.53381
#2	2.4638	.52428	.50342	.52232	.47272	.50444	.53290

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Analysis Report 03/28/12 07:00:36 PM page 25

Avg	12.486	.48409	.48762	.48112	2.6164	.48428	.50520
SDev	.040	.00115	.00209	.00287	.0087	.00316	.00058
%RSD	.32260	.23823	.42770	.59560	.33138	.65319	.11466
#1	12.515	.48491	.48910	.48314	2.6226	.48652	.50561
#2	12.458	.48327	.48615	.47909	2.6103	.48204	.50479

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50211	4.8759	.48946	.51314	.53156	12.833	.93595
SDev	.00125	.0018	.00151	.00225	.00136	.006	.00736
%RSD	.24793	.03664	.30781	.43868	.25519	.04811	.78605
#1	.50299	4.8772	.49052	.51473	.53252	12.837	.94115
#2	.50123	4.8747	.48839	.51154	.53060	12.829	.93075

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

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Avge	.24838	12.911	12.512	.26353	.54752	.50602	.50671
SDev	.00151	.209	.157	.00088	.00685	.00025	.00153
%RSD	.60591	1.6156	1.2567	.33348	1.2501	.04911	.30286
#1	.24945	13.058	12.623	.26416	.54268	.50585	.50780
#2	.24732	12.763	12.401	.26291	.55236	.50620	.50563
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.49233	.52638	.47996	.51782	.48147	.51249	
SDev	.00098	.00137	.00195	.00011	.00467	.00047	
%RSD	.19815	.26089	.40677	.02071	.97085	.09166	
#1	.49302	.52735	.48134	.51774	.48478	.51215	
#2	.49164	.52540	.47858	.51789	.47817	.51282	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38846	--	--	--	--	--	--
SDev	271.5290	--	--	--	--	--	--
%RSD	.6989883	--	--	--	--	--	--
#1	39038	--	--	--	--	--	--
#2	38654	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL  
Run Time: 03/28/12 19:00:39  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05976	-.00015	.00279	.00005	-.00065	-.00782	-.00020
SDev	.00582	.00385	.00136	.00017	.00004	.00151	.00003
%RSD	9.7387	2515.3	48.720	354.42	5.8417	19.253	13.240

Analysis Report 03/28/12 07:04:27 PM page 26

#1	.06388	.00257	.00375	.00017	-.00063	-.00676	-.00022
#2	.05565	-.00287	.00183	-.00007	-.00068	-.00889	-.00018
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00722	.00015	-.00038	-.00250	-.01252	.00073	.00071
SDev	.00170	.00056	.00023	.00070	.00815	.00004	.00005
%RSD	23.539	381.29	61.293	28.057	65.073	5.5718	7.1896
#1	-.00842	.00054	-.00022	-.00200	-.00676	.00075	.00074
#2	-.00602	-.00025	-.00054	-.00300	-.01828	.00070	.00067
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00057	.03693	.00010	.00233	-.00035	.30659	-.00848
SDev	.00031	.00209	.00008	.00178	.00022	.00178	.00289
%RSD	54.498	5.6534	82.074	76.422	63.272	.58003	34.111
#1	.00079	.03545	.00015	.00359	-.00020	.30785	-.00643
#2	.00035	.03841	.00004	.00107	-.00051	.30534	-.01052

file:///c:/tjadata/temp/a032812.TXT

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.00038	-.18613	.05253	.00003	.00137	-.00194	.00020
SDev	.00035	.10327	.00279	.00005	.00029	.00082	.00030
%RSD	92.653	55.482	5.3125	200.90	21.100	42.283	150.22
#1	-.00013	-.11311	.05450	.00006	.00117	-.00136	.00041
#2	-.00063	-.25916	.05056	-.00001	.00158	-.00251	-.00001
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	-.00005	.00056	.00036	.00088	-.00469	.00320	
SDev	.00081	.00021	.00515	.00265	.00589	.00341	
%RSD	1561.6	37.976	1418.8	302.61	125.52	106.60	
#1	.00052	.00071	-.00328	.00275	-.00885	.00561	
#2	-.00063	.00041	.00401	-.00100	-.00053	.00079	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	38116	--	--	--	--	--	--
SDev	200.8183	--	--	--	--	--	--
%RSD	.5268609	--	--	--	--	--	--
#1	38258	--	--	--	--	--	--
#2	37974	--	--	--	--	--	--

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Method: 20076010 Sample Name: 600-52562-b-3-a Operator: DCL  
Run Time: 03/28/12 19:04:30  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
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Analysis Report 03/28/12 07:08:18 PM page 27

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.72169	.00933	.00359	.16475	-.00085	.30393	-.00017
SDev	.00179	.00233	.00046	.00012	.00000	.00042	.00006
%RSD	.24873	25.015	12.762	.07071	.41269	.13918	34.359
#1	.72296	.00768	.00327	.16484	-.00085	.30363	-.00021
#2	.72042	.01098	.00392	.16467	-.00085	.30422	-.00013
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	493.42	.41154	.00086	.00195	.04216	.02688	.00004
SDev	.87	.00085	.00000	.00046	.01009	.00001	.00106
%RSD	.17615	.20659	.05102	23.326	23.930	.04815	2618.6
#1	494.04	.41214	.00086	.00163	.04929	.02689	.00079
#2	492.81	.41094	.00086	.00227	.03502	.02687	-.00071
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00420	2.7358	.01704	1.4711	.06148	148.33	6.1913
SDev	.00362	.0076	.00000	.0048	.00001	.20	.0128
%RSD	86.151	.27845	.02512	.32718	.01916	.13274	.20637



file:///c:/tjadata/temp/a032812.TXT

#1	.00675	2.7412	.01703	1.4677	.06148	148.47	6.2004
#2	.00164	2.7304	.01704	1.4745	.06147	148.19	6.1823
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00015	598.10	395.72	1.4546	.00671	.00110	-.00303
SDev	.00019	1.06	1.65	.0025	.00036	.00133	.00002
%RSD	121.03	.17649	.41608	.17367	5.4231	121.72	.69463
#1	.00029	598.85	396.89	1.4564	.00645	.00015	-.00301
#2	.00002	597.35	394.56	1.4528	.00697	.00204	-.00304
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00595	.32940	-.00176	.00094	.00165	.00547	
SDev	.00006	.00051	.00207	.00056	.00369	.00358	
%RSD	.91931	.15374	117.94	59.537	223.13	65.433	
#1	.00591	.32976	-.00029	.00133	.00426	.00800	
#2	.00599	.32905	-.00322	.00054	-.00096	.00294	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35532	--	--	--	--	--	--
SDev	36.06245	--	--	--	--	--	--
%RSD	.1014943	--	--	--	--	--	--
#1	35506	--	--	--	--	--	--
#2	35557	--	--	--	--	--	--

03/28/12 07:12:09 PM

page 28

Method: 20076010 Sample Name: 600-52562-b-4-a Operator: DCL  
Run Time: 03/28/12 19:08:21  
Comment: TRACE 61E  
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.60808	.00795	.00420	.17726	-.00089	.31431	-.00008
SDev	.00102	.00136	.00084	.00057	.00000	.00058	.00004
%RSD	.16789	17.065	20.071	.32295	.24442	.18386	53.444
#1	.60880	.00699	.00479	.17767	-.00089	.31472	-.00005
#2	.60736	.00891	.00360	.17686	-.00088	.31390	-.00011
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	402.16	.29944	.00097	.00520	.06151	.02580	.00000
SDev	1.07	.00092	.00046	.00012	.00112	.00001	.00073
%RSD	.26642	.30669	47.343	2.3939	1.8253	.03825	24570.
#1	402.91	.30009	.00129	.00511	.06230	.02581	.00052
#2	401.40	.29879	.00064	.00528	.06072	.02580	-.00051
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00281	2.8325	.01631	.89569	.07577	132.69	6.6593



file:///c:/tjadata/temp/a032812.TXT

SDev	.00238	.0056	.00000	.00176	.00017	.47	.0146
%RSD	84.726	.19854	.00257	.19595	.22976	.35648	.21916
#1	.00113	2.8365	.01631	.89445	.07589	133.02	6.6696
#2	.00450	2.8285	.01631	.89693	.07565	132.35	6.6490
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00002	528.25	356.18	1.1628	.00381	.00196	-.00229
SDev	.00032	1.27	1.66	.0034	.00094	.00130	.00017
%RSD	1293.4	.24034	.46605	.29070	24.545	66.455	7.6302
#1	.00025	529.15	357.35	1.1652	.00447	.00289	-.00217
#2	-.00020	527.35	355.00	1.1604	.00315	.00104	-.00242
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00479	.30254	-.00048	.00024	-.00251	.00548	
SDev	.00003	.00090	.00083	.00068	.00330	.00192	
%RSD	.57295	.29616	172.96	280.50	131.74	35.141	
#1	.00477	.30317	.00011	.00073	-.00485	.00411	
#2	.00481	.30191	-.00106	-.00024	-.00017	.00684	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	35762	--	--	--	--	--	--
SDev	92.63099	--	--	--	--	--	--
%RSD	.2590244	--	--	--	--	--	--

Analysis Report

03/28/12 07:12:09 PM

page 29

#1	35696	--	--	--	--	--	--
#2	35827	--	--	--	--	--	--

Method: 20076010 Sample Name: CCV met0312ccv\_00005 Operator: DCL  
 Run Time: 03/28/12 19:12:12  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.4978	.52941	.51457	.52825	.48081	.50950	.53872
SDev	.0446	.00816	.00172	.00662	.00473	.00758	.00644
%RSD	1.7864	1.5405	.33510	1.2541	.98457	1.4877	1.1955
#1	2.5294	.53517	.51579	.53293	.48416	.51485	.54328
#2	2.4663	.52364	.51335	.52356	.47746	.50414	.53417
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.634	.49095	.49456	.48671	2.6420	.48733	.51104
SDev	.152	.00604	.00563	.00671	.0391	.00705	.00631
%RSD	1.2009	1.2300	1.1376	1.3778	1.4807	1.4477	1.2351
#1	12.741	.49522	.49854	.49145	2.6697	.49232	.51550
#2	12.526	.48668	.49059	.48197	2.6144	.48234	.50658

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Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50875	4.9527	.49545	.52181	.53303	12.986	.94384
SDev	.00394	.0631	.00559	.00627	.00645	.160	.01741
%RSD	.77349	1.2738	1.1283	1.2013	1.2103	1.2333	1.8448
#1	.51153	4.9973	.49941	.52624	.53759	13.099	.95615
#2	.50597	4.9081	.49150	.51738	.52847	12.872	.93152
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25105	12.866	12.554	.26602	.54751	.51239	.51263
SDev	.00354	.302	.203	.00317	.00300	.00432	.00649
%RSD	1.4112	2.3485	1.6188	1.1922	.54888	.84357	1.2662
#1	.25355	13.080	12.697	.26826	.54538	.51544	.51722
#2	.24854	12.652	12.410	.26378	.54963	.50933	.50804
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.49873	.53285	.49007	.52152	.48744	.51946	
SDev	.00591	.00561	.00421	.00736	.00710	.00235	
%RSD	1.1855	1.0528	.85917	1.4117	1.4559	.45336	
#1	.50291	.53681	.49305	.52673	.49246	.52113	
#2	.49455	.52888	.48710	.51632	.48242	.51780	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Analysis Report

03/28/12 07:16:00 PM

page 30

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38328	--	--	--	--	--	--
SDev	183.1407	--	--	--	--	--	--
%RSD	.4778185	--	--	--	--	--	--
#1	38199	--	--	--	--	--	--
#2	38458	--	--	--	--	--	--

Method: 20076010 Sample Name: CCB Operator: DCL  
 Run Time: 03/28/12 19:16:03  
 Comment: TRACE 61E  
 Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06655	.00359	.00500	.00023	-.00065	-.00714	-.00009
SDev	.00123	.00131	.00215	.00005	.00000	.00020	.00001
%RSD	1.8467	36.559	43.040	20.301	.05151	2.8110	13.570
#1	.06568	.00452	.00348	.00020	-.00065	-.00729	-.00010
#2	.06742	.00266	.00652	.00027	-.00065	-.00700	-.00008
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00662	.00111	.00014	-.00148	.00830	.00080	.00083
SDev	.00270	.00027	.00000	.00029	.00245	.00004	.00046
%RSD	40.737	24.234	.06228	19.474	29.543	4.7015	55.758

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#1	-.00852	.00092	.00014	-.00168	.00656	.00083	.00116
#2	-.00471	.00130	.00014	-.00127	.01003	.00078	.00050
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00174	.04433	.00021	.00307	.00000	.36196	-.00422
SDev	.00012	.00041	.00004	.00126	.00014	.01661	.00011
%RSD	6.6302	.92539	19.003	40.970	3159.0	4.5886	2.6469
#1	.00182	.04404	.00018	.00396	-.00010	.37370	-.00430
#2	.00166	.04462	.00024	.00218	.00010	.35021	-.00414
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.00002	-.06371	.05656	.00012	.00307	-.00086	.00056
SDev	.00003	.07465	.00248	.00003	.00079	.00049	.00006
%RSD	103.35	117.17	4.3819	25.922	25.676	56.742	10.677
#1	.00004	-.11649	.05831	.00010	.00251	-.00052	.00060
#2	.00001	-.01092	.05481	.00014	.00363	-.00121	.00052
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avgc	.00113	.00068	-.00054	.00152	-.00608	.00565	
SDev	.00005	.00007	.00031	.00054	.00304	.00169	
%RSD	4.7938	10.056	57.708	35.636	49.920	29.918	
#1	.00109	.00064	-.00032	.00190	-.00823	.00685	

Analysis Report

03/28/12 07:19:51 PM

page 31

#2	.00117	.00073	-.00076	.00113	-.00393	.00446	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avgc	37930	--	--	--	--	--	--
SDev	12.02082	--	--	--	--	--	--
%RSD	.0316925	--	--	--	--	--	--
#1	37921	--	--	--	--	--	--
#2	37938	--	--	--	--	--	--

Method: 20076010 Sample Name: ICSA metisa\_00072 Operator: DCL

Run Time: 03/28/12 19:19:54

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	495.76	.00328	.00207	.00187	-.00088	-.00962	-.00678
SDev	.36	.00285	.00370	.00005	.00001	.00084	.00001
%RSD	.07229	86.999	178.74	2.6957	1.2466	8.6807	.12624
#1	496.01	.00126	.00469	.00184	-.00088	-.00903	-.00678
#2	495.50	.00529	-.00055	.00191	-.00089	-.01021	-.00677
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	453.09	.00180	-.00076	.01112	199.96	.00508	.00651
SDev	.05	.00010	.00000	.00052	.02	.00002	.00010



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%RSD	.01134	5.3059	.37371	4.6569	.01210	.33074	1.4519
#1	453.06	.00187	-.00077	.01148	199.94	.00509	.00658
#2	453.13	.00174	-.00076	.01075	199.98	.00507	.00644
Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01220	508.59	-.00735	.00194	-.00004	.40301	.00565
SDev	.00206	.59	.00001	.00103	.00028	.00661	.00063
%RSD	16.852	.11566	.07060	53.130	783.50	1.6407	11.204
#1	-.01366	508.18	-.00735	.00267	.00016	.40768	.00609
#2	-.01075	509.01	-.00734	.00121	-.00023	.39833	.00520
Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00075	.04238	.25510	-.00875	.01046	-.00399	-.00340
SDev	.00011	.11084	.00370	.00000	.00635	.00286	.00001
%RSD	14.113	261.54	1.4515	.01699	60.721	71.700	.35341
#1	-.00068	-.03600	.25772	-.00876	.00597	-.00197	-.00339
#2	-.00083	.12076	.25249	-.00875	.01496	-.00602	-.00341
Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00442	-.00274	-.01369	.01661	-.01150	-.01255	

Analysis Report

03/28/12 07:23:42 PM

page 32

SDev	.00013	.00016	.00018	.00023	.00420	.00098	
%RSD	2.8338	5.7095	1.2978	1.3884	36.519	7.8416	
#1	.00433	-.00285	-.01382	.01678	-.01447	-.01325	
#2	.00451	-.00263	-.01357	.01645	-.00853	-.01186	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	34861	--	--	--	--	--	--
SDev	83.43860	--	--	--	--	--	--
%RSD	.2393465	--	--	--	--	--	--
#1	34802	--	--	--	--	--	--
#2	34920	--	--	--	--	--	--

Method: 20076010 Sample Name: ICSAB metisb\_00074 Operator: DCL

Run Time: 03/28/12 19:23:45

Comment: TRACE 61E

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1890	Ba4934	Be3130	B_2496	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	504.49	1.1107	1.0628	1.1087	.47716	1.0873	.50666
SDev	2.43	.0086	.0019	.0048	.00143	.0037	.00282
%RSD	.48079	.77228	.17895	.42876	.29891	.33785	.55628
#1	506.20	1.1168	1.0642	1.1121	.47817	1.0899	.50866
#2	502.77	1.1047	1.0615	1.1053	.47616	1.0847	.50467
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Li6707	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

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Avge	460.69	.97295	.94728	1.0576	209.87	1.2431	1.0195
SDev	1.70	.00347	.00412	.0054	.92	.0072	.0086
%RSD	.36846	.35679	.43523	.51396	.43711	.57755	.84255

#1	461.89	.97541	.95019	1.0614	210.52	1.2482	1.0256
#2	459.49	.97050	.94436	1.0537	209.22	1.2380	1.0134

Elem	Se1960	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0205	519.35	.99074	1.0354	1.0053	15.191	1.0195
SDev	.0072	2.08	.00407	.0048	.0063	.063	.0079
%RSD	.70786	.40037	.41029	.46220	.62917	.41350	.77948

#1	1.0256	520.82	.99361	1.0388	1.0097	15.235	1.0251
#2	1.0154	517.88	.98786	1.0320	1.0008	15.146	1.0139

Elem	Ag3280	Na3302	Na5889	Sr4215	Tl1908	Sn1899	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.55294	12.114	13.986	.53731	1.1044	1.0167	1.0295
SDev	.00353	.066	.081	.00242	.0057	.0043	.0039
%RSD	.63930	.54162	.58089	.44978	.51166	.42236	.37416

#1	.55544	12.160	14.043	.53902	1.1004	1.0197	1.0323
#2	.55044	12.068	13.928	.53560	1.1084	1.0136	1.0268

Analysis Report

03/28/12 07:27:33 PM

page 33

Elem	V_2924	Zn2138	2203/1	2203/2	1960/1	1960/2
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.99619	1.0741	.95147	1.0535	.99063	1.0354
SDev	.00396	.0056	.00392	.0109	.00128	.0102
%RSD	.39716	.52584	.41186	1.0370	.12876	.98486

#1	.99899	1.0781	.95424	1.0612	.99153	1.0426
#2	.99340	1.0701	.94870	1.0458	.98973	1.0282

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34920	--	--	--	--	--	--
SDev	69.29646	--	--	--	--	--	--
%RSD	.1984435	--	--	--	--	--	--

#1	34871	--	--	--	--	--	--
#2	34969	--	--	--	--	--	--

1  
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# Metals Worksheet

Batch Number: 600-75902  
 Method: 245.1  
 Analyst: Patel, Silen R

Date Open: Mar 28 2012 4:43PM  
 Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	MER0312S1_00022	MER0312S2_00019
S0						
S0.2						
S0.5						
S1.0						
S2.0						
S5.0						
S10.0						
ICV-600-75902/8		7470A	50 mL	1.5 mL		
ICB-600-75902/9		7470A				
ICRA-600-75902/10		7470A		.1 mL		
ICCV-600-75902/11		7470A	50 mL			
ICCB-600-75902/12		7470A	50 mL	1.5 mL		
ICMB-600-75815/7-A		7470A				
ICLCS-600-75815/8-A		7470A				
ICLB-600-75710/1-E		7470A				
IC600-52295-A-1-F		7470A				
IC600-52295-A-1-G-D		7470A				
IC600-52295-A-1-H-M		7470A				
IC600-52295-A-2-F		7470A				
IC600-52295-A-4-H		7470A				
IC600-52295-A-5-F		7470A				
IC600-52295-A-6-H		7470A				
ICCV-600-75902/23		7470A	50 mL	1.5 mL		
ICCB-600-75902/24		7470A				
IC600-52117-B-1-D		7470A				

# Metals Worksheet

Batch Number: 600-75902  
 Method: 245.1  
 Analyst: Patel, Siten R

Date Open: Mar 28 2012 4:43PM  
 Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	MER0312S1_00022	MER0312S2_00019
600-52258-D-1-E		7470A	P			
600-52432-C-1-G		7470A	P			
600-52207-G-1-F		7470A	P			
600-52208-G-1-H		7470A	P			
600-52208-G-1-I-D		7470A	P			
U						
600-52208-G-1-J-M		7470A	P			
S						
600-52209-G-1-F		7470A	P			
600-52210-G-1-H		7470A	P			
600-52212-G-1-F		7470A	P			
CCV--600-75902/35		7470A	P	50 mL		1.5 mL
CCB--600-75902/36		7470A	P			
600-52215-G-1-G		7470A	P			
600-52350-A-1-F		7470A	P			
600-52295-A-3-F		7470A	P			
LB--600-75712/1-D		7470A	P			
600-52214-G-1-G		7470A	P			
LB--600-75739/1-E		7470A	P			
600-52256-F-1-H		7470A	P			
600-52256-G-2-G		7470A	P			
600-52258-B-2-G		7470A	P			
600-51958-B-1-B		7470A	T			
CCV--600-75902/47		7470A	T	50 mL		1.5 mL
CCB--600-75902/48		7470A	T			
600-51958-B-2-B		7470A	T			
600-51958-B-3-B		7470A	T			

### Metals Worksheet

Batch Number: 600-75902  
 Method: 245.1  
 Analyst: Patel, Silen R

Date Open: Mar 28 2012 4:43PM  
 Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	MER0312S1_00022	MER0312S2_00019
600-51958-A-3-C~M S		7470A	T			
600-51958-A-3-D~M SD		7470A	T			
600-51958-A-4-B		7470A	T			
600-52344-B-1-B		7470A	T			
600-52295-A-1-F~S D		7470A	P			
600-51958-B-3-B~S D		7470A	T			
CCV-600-75902/57		7470A		50 mL		
CCB-600-75902/58		7470A				1.5 mL



Method: Mercury Soil &amp; Water

Page 1

Date: 3/28/2012 16:50:31

=====  
Analysis Begun

Logged In Analyst: houston\_wetchem\_inst                    Technique: AA FIMS-MHS  
Spectrometer Model: FIMS-100, S/N B050-9550            Autosampler Model: S10

Sample Information File: C:\data-AA\Houston\_wetchem\_inst\Sample Information\TODAY.sif  
Batch ID: 75815  
Results Data Set: FW032812  
Results Library: C:\data-AA\Houston\_wetchem\_inst\Results\Results.mdb

=====  
Method Loaded

Method Name: Mercury Soil & Water                    Method Last Saved: 9/1/2011 15:23:28  
Method Description: Mercury Analysis

Sequence No.: 1    Autosampler Location: 2  
Sample ID: S0    Date Collected: 3/28/2012 16:43:53  
Analyst:    Data Type: Original

-----  
Replicate Data: S0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0006	0.0011	0.0006	16:44:59	Yes
2		[0.00]	0.0005	-0.0001	0.0005	16:45:41	Yes
Mean:		[0.00]	0.0005				
SD:		0.00	0.0001				
%RSD:		0.00	16.33				

Auto-zero performed.

Sequence No.: 2    Autosampler Location: 3  
Sample ID: S0.2    Date Collected: 3/28/2012 16:45:43  
Analyst:    Data Type: Original

-----  
Replicate Data: S0.2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0015	0.0089	0.0020	16:46:48	Yes
2		[0.2]	0.0016	0.0083	0.0021	16:47:30	Yes
Mean:		[0.2]	0.0015				
SD:		0.0	0.0000				
%RSD:		0.0	1.08				

Standard number 1 applied. [0.2]

Correlation Coef.: 1.000000    Slope: 0.00769    Intercept: 0.00000

Sequence No.: 3    Autosampler Location: 4  
Sample ID: S0.5    Date Collected: 3/28/2012 16:47:32  
Analyst:    Data Type: Original

-----  
Replicate Data: S0.5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0039	0.0228	0.0044	16:48:37	Yes
2		[0.5]	0.0038	0.0199	0.0043	16:49:19	Yes
Mean:		[0.5]	0.0039				
SD:		0.0	0.0001				
%RSD:		0.0	2.42				

Standard number 2 applied. [0.5]

Correlation Coef.: 1.000000    Slope: 0.00771    Intercept: -0.00000

Sequence No.: 4    Autosampler Location: 5  
Sample ID: S1.0    Date Collected: 3/28/2012 16:49:21  
Analyst:    Data Type: Original

Method: Mercury Soil &amp; Water

Page 2

Date: 3/28/2012 16:57:31

-----  
Replicate Data: S1.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1.0]	0.0078	0.0422	0.0083	16:50:26	Yes
2		[1.0]	0.0078	0.0433	0.0083	16:51:13	Yes
Mean:		[1.0]	0.0078				
SD:		0.0	0.0000				
%RSD:		0.0	0.48				

Standard number 3 applied. [1.0]  
Correlation Coef.: 0.999978 Slope: 0.00781 Intercept: -0.00002

=====

Sequence No.:	Autosampler Location:
5	6
Sample ID:	Date Collected:
S2.0	3/28/2012 16:51:15
Analyst:	Data Type:
	Original

-----  
Replicate Data: S2.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2.0]	0.0156	0.0852	0.0161	16:52:21	Yes
2		[2.0]	0.0155	0.0846	0.0160	16:53:03	Yes
Mean:		[2.0]	0.0156				
SD:		0.0	0.0001				
%RSD:		0.0	0.41				

Standard number 4 applied. [2.0]  
Correlation Coef.: 0.999994 Slope: 0.00779 Intercept: -0.00001

=====

Sequence No.:	Autosampler Location:
6	7
Sample ID:	Date Collected:
S5.0	3/28/2012 16:53:05
Analyst:	Data Type:
	Original

-----  
Replicate Data: S5.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.0392	0.2126	0.0398	16:54:11	Yes
2		[5.0]	0.0393	0.2123	0.0399	16:54:53	Yes
Mean:		[5.0]	0.0393				
SD:		0.0	0.0001				
%RSD:		0.0	0.19				

Standard number 5 applied. [5.0]  
Correlation Coef.: 0.999991 Slope: 0.00786 Intercept: -0.00006

=====

Sequence No.:	Autosampler Location:
7	8
Sample ID:	Date Collected:
S10.0	3/28/2012 16:55:40
Analyst:	Data Type:
	Original

-----  
Replicate Data: S10.0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.0807	0.4345	0.0812	16:56:46	Yes
2		[10.0]	0.0813	0.4425	0.0818	16:57:27	Yes
Mean:		[10.0]	0.0810				
SD:		0.0	0.0004				
%RSD:		0.0	0.48				

Standard number 6 applied. [10.0]  
Correlation Coef.: 0.999891 Slope: 0.00809 Intercept: -0.00030

-----  
Calibration data for Hg 253.7

Equation: Linear, Calculated Intercept

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
S0	0.0000	0	0.038	0.00	16.3
S0.2	0.0015	0.2	0.228	0.00	1.1
S0.5	0.0039	0.5	0.514	0.00	2.4
S1.0	0.0078	1.0	1.003	0.00	0.5

Method: Mercury Soil &amp; Water Page 3 Date: 3/28/2012 17:06:24

S2.0	0.0156	2.0	1.962	0.00	0.4
S5.0	0.0393	5.0	4.898	0.00	0.2
S10.0	0.0810	10.0	10.057	0.00	0.5

Correlation Coef.: 0.999891 Slope: 0.00809 Intercept: -0.00030

Sequence No.: 8 Autosampler Location: 1  
 Sample ID: ICV Date Collected: 3/28/2012 16:58:19  
 Analyst: Data Type: Original

## Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.023	3.023	0.0241	0.1309	0.0246	16:59:24	Yes
2	3.060	3.060	0.0244	0.1321	0.0249	17:00:07	Yes
Mean:	3.042	3.042	0.0243				
SD:	0.026	0.026	0.0002				
%RSD:	0.860	0.860	0.87				

QC value within limits for Hg 253.7 Recovery = 101.38%  
 All analyte(s) passed QC.

Sequence No.: 9 Autosampler Location: 2  
 Sample ID: ICB Date Collected: 3/28/2012 17:00:53  
 Analyst: Data Type: Original

## Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.041	0.041	0.0000	0.0020	0.0005	17:01:59	Yes
2	0.038	0.038	-0.0000	0.0018	0.0005	17:02:41	Yes
Mean:	0.039	0.039	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	6.258	6.258	153.14				

QC value within limits for Hg 253.7 Recovery = Not calculated  
 All analyte(s) passed QC.

Sequence No.: 10 Autosampler Location: 3  
 Sample ID: CRA Date Collected: 3/28/2012 17:02:43  
 Analyst: Data Type: Original

## Replicate Data: CRA

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.234	0.234	0.0016	0.0103	0.0021	17:03:48	Yes
2	0.232	0.232	0.0016	0.0097	0.0021	17:04:30	Yes
Mean:	0.233	0.233	0.0016				
SD:	0.001	0.001	0.0000				
%RSD:	0.608	0.608	0.72				

QC value within limits for Hg 253.7 Recovery = 116.44%  
 All analyte(s) passed QC.

Sequence No.: 11 Autosampler Location: 1  
 Sample ID: CCV Date Collected: 3/28/2012 17:04:32  
 Analyst: Data Type: Original

## Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.009	3.009	0.0240	0.1309	0.0245	17:05:38	Yes
2	3.003	3.003	0.0240	0.1305	0.0245	17:06:20	Yes
Mean:	3.006	3.006	0.0240				
SD:	0.004	0.004	0.0000				
%RSD:	0.144	0.144	0.15				

QC value within limits for Hg 253.7 Recovery = 100.20%  
 All analyte(s) passed QC.





Method: Mercury Soil &amp; Water Page 5 Date: 3/28/2012 17:25:30

1	0.057	0.057	0.0002	0.0030	0.0007	17:16:19	Yes
2	0.059	0.059	0.0002	0.0033	0.0007	17:17:05	Yes
Mean:	0.058	0.058	0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	2.399	2.399	6.84				

Sequence No.: 17 Autosampler Location: 42  
 Sample ID: 600-52295-a-1-g du Date Collected: 3/28/2012 17:17:07  
 Analyst: SRP Data Type: Original

Replicate Data: 600-52295-a-1-g du

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.043	0.043	0.0000	0.0028	0.0006	17:18:12	Yes
2	0.042	0.042	0.0000	0.0026	0.0005	17:18:54	Yes
Mean:	0.043	0.043	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	2.491	2.491	21.18				

Sequence No.: 18 Autosampler Location: 43  
 Sample ID: 600-52295-a-1-h ms Date Collected: 3/28/2012 17:18:55  
 Analyst: SRP Data Type: Original

Replicate Data: 600-52295-a-1-h ms

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.921	2.921	0.0233	0.1284	0.0238	17:20:00	Yes
2	2.904	2.904	0.0232	0.1275	0.0237	17:20:42	Yes
Mean:	2.913	2.913	0.0232				
SD:	0.012	0.012	0.0001				
%RSD:	0.408	0.408	0.41				

Sequence No.: 19 Autosampler Location: 44  
 Sample ID: 600-52295-a-2-f Date Collected: 3/28/2012 17:20:43  
 Analyst: SRP Data Type: Original

Replicate Data: 600-52295-a-2-f

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.051	0.051	0.0001	0.0031	0.0006	17:21:48	Yes
2	0.054	0.054	0.0001	0.0035	0.0006	17:22:30	Yes
Mean:	0.052	0.052	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	4.010	4.010	14.27				

Sequence No.: 20 Autosampler Location: 45  
 Sample ID: 600-52295-a-4-h Date Collected: 3/28/2012 17:22:32  
 Analyst: SRP Data Type: Original

Replicate Data: 600-52295-a-4-h

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.053	0.053	0.0001	0.0038	0.0006	17:23:37	Yes
2	0.044	0.044	0.0001	0.0031	0.0006	17:24:19	Yes
Mean:	0.049	0.049	0.0001				
SD:	0.006	0.006	0.0001				
%RSD:	13.34	13.34	59.01				

Sequence No.: 21 Autosampler Location: 46  
 Sample ID: 600-52295-a-5-f Date Collected: 3/28/2012 17:24:21  
 Analyst: SRP Data Type: Original

Method: Mercury Soil &amp; Water

Page 6

Date: 3/28/2012 17:34:18

## Replicate Data: 600-52295-a-5-f

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.041	0.041	0.0000	0.0030	0.0005	17:25:26	Yes
2	0.048	0.048	0.0001	0.0036	0.0006	17:26:12	Yes
Mean:	0.045	0.045	0.0001				
SD:	0.005	0.005	0.0000				
%RSD:	10.74	10.74	69.39				

Sequence No.: 22

Autosampler Location: 47

Sample ID: 600-52295-a-6-h

Date Collected: 3/28/2012 17:26:14

Analyst: SRP

Data Type: Original

## Replicate Data: 600-52295-a-6-h

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.047	0.047	0.0001	0.0032	0.0006	17:27:19	Yes
2	0.047	0.047	0.0001	0.0030	0.0006	17:28:01	Yes
Mean:	0.047	0.047	0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	0.583	0.583	2.98				

Sequence No.: 23

Autosampler Location: 1

Sample ID: CCV

Date Collected: 3/28/2012 17:28:03

Analyst:

Data Type: Original

## Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.046	3.046	0.0243	0.1316	0.0248	17:29:09	Yes
2	3.046	3.046	0.0243	0.1322	0.0248	17:29:50	Yes
Mean:	3.046	3.046	0.0243				
SD:	0.000	0.000	0.0000				
%RSD:	0.004	0.004	0.00				

QC value within limits for Hg 253.7 Recovery = 101.52%  
All analyte(s) passed QC.

Sequence No.: 24

Autosampler Location: 2

Sample ID: CCB

Date Collected: 3/28/2012 17:30:37

Analyst:

Data Type: Original

## Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.047	0.047	0.0001	0.0028	0.0006	17:31:43	Yes
2	0.045	0.045	0.0001	0.0029	0.0006	17:32:25	Yes
Mean:	0.046	0.046	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	2.094	2.094	11.74				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

Sequence No.: 25

Autosampler Location: 48

Sample ID: 600-52117-b-1-d

Date Collected: 3/28/2012 17:32:27

Analyst: SRP

Data Type: Original

## Replicate Data: 600-52117-b-1-d

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.034	0.034	-0.0000	0.0027	0.0005	17:33:33	Yes
2	0.036	0.036	-0.0000	0.0033	0.0005	17:34:14	Yes
Mean:	0.035	0.035	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	4.657	4.657	62.34				



Method: Mercury Soil &amp; Water

Page 7

Date: 3/28/2012 17:43:38

```

=====
Sequence No.: 26                               Autosampler Location: 49
Sample ID: 600-52258-d-1-e                   Date Collected: 3/28/2012 17:34:20
Analyst: SRP                                 Data Type: Original
=====

```

Replicate Data: 600-52258-d-1-e

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.016	0.016	-0.0002	0.0027	0.0003	17:35:25	Yes
2	0.025	0.025	-0.0001	0.0027	0.0004	17:36:06	Yes
Mean:	0.021	0.021	-0.0001				
SD:	0.006	0.006	0.0000				
%RSD:	29.07	29.07	35.68				

```

=====
Sequence No.: 27                               Autosampler Location: 50
Sample ID: 600-52432-c-1-g                   Date Collected: 3/28/2012 17:36:08
Analyst: SRP                                 Data Type: Original
=====

```

Replicate Data: 600-52432-c-1-g

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.045	0.045	0.0001	0.0031	0.0006	17:37:15	Yes
2	0.053	0.053	0.0001	0.0032	0.0006	17:37:57	Yes
Mean:	0.049	0.049	0.0001				
SD:	0.006	0.006	0.0000				
%RSD:	12.49	12.49	53.64				

```

=====
Sequence No.: 28                               Autosampler Location: 51
Sample ID: 600-52207-g-1-f                   Date Collected: 3/28/2012 17:38:03
Analyst: SRP                                 Data Type: Original
=====

```

Replicate Data: 600-52207-g-1-f

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.039	0.039	0.0000	0.0022	0.0005	17:39:16	Yes
2	0.057	0.057	0.0002	0.0044	0.0007	17:39:57	Yes
Mean:	0.048	0.048	0.0001				
SD:	0.013	0.013	0.0001				
%RSD:	25.99	25.99	118.73				

```

=====
Sequence No.: 29                               Autosampler Location: 52
Sample ID: 600-52208-g-1-h                   Date Collected: 3/28/2012 17:39:59
Analyst: SRP                                 Data Type: Original
=====

```

Replicate Data: 600-52208-g-1-h

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.044	0.044	0.0000	0.0034	0.0006	17:41:04	Yes
2	0.046	0.046	0.0001	0.0032	0.0006	17:41:46	Yes
Mean:	0.045	0.045	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	3.559	3.559	22.68				

```

=====
Sequence No.: 30                               Autosampler Location: 53
Sample ID: 600-52208-g-1-i du                 Date Collected: 3/28/2012 17:41:48
Analyst: SRP                                 Data Type: Original
=====

```

Replicate Data: 600-52208-g-1-i du

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.049	0.049	0.0001	0.0038	0.0006	17:42:52	Yes
2	0.045	0.045	0.0001	0.0036	0.0006	17:43:34	Yes

Method: Mercury Soil &amp; Water

Page 8

Date: 3/28/2012 17:52:05

Mean: 0.047      0.047      0.0001  
 SD: 0.003      0.003      0.0000  
 %RSD: 6.660      6.660      33.80

=====  
 Sequence No.: 31      Autosampler Location: 54  
 Sample ID: 600-52208-g-1-j ms      Date Collected: 3/28/2012 17:43:40  
 Analyst: SRP      Data Type: Original  
 =====

Replicate Data: 600-52208-g-1-j ms

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.212	2.212	0.0176	0.0983	0.0181	17:44:45	Yes
2	2.206	2.206	0.0175	0.0973	0.0180	17:45:27	Yes
Mean:	2.209	2.209	0.0176				
SD:	0.004	0.004	0.0000				
%RSD:	0.190	0.190	0.19				

=====  
 Sequence No.: 32      Autosampler Location: 55  
 Sample ID: 600-52209-g-1-f      Date Collected: 3/28/2012 17:45:29  
 Analyst: SRP      Data Type: Original  
 =====

Replicate Data: 600-52209-g-1-f

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.043	0.043	0.0000	0.0033	0.0006	17:46:34	Yes
2	0.039	0.039	0.0000	0.0026	0.0005	17:47:16	Yes
Mean:	0.041	0.041	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	5.933	5.933	69.12				

=====  
 Sequence No.: 33      Autosampler Location: 56  
 Sample ID: 600-52210-g-1-h      Date Collected: 3/28/2012 17:47:18  
 Analyst: SRP      Data Type: Original  
 =====

Replicate Data: 600-52210-g-1-h

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.049	0.049	0.0001	0.0033	0.0006	17:48:23	Yes
2	0.060	0.060	0.0002	0.0042	0.0007	17:49:05	Yes
Mean:	0.054	0.054	0.0001				
SD:	0.008	0.008	0.0001				
%RSD:	14.83	14.83	48.13				

=====  
 Sequence No.: 34      Autosampler Location: 57  
 Sample ID: 600-52212-g-1-f      Date Collected: 3/28/2012 17:49:06  
 Analyst: SRP      Data Type: Original  
 =====

Replicate Data: 600-52212-g-1-f

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.049	0.049	0.0001	0.0032	0.0006	17:50:12	Yes
2	0.057	0.057	0.0002	0.0037	0.0007	17:50:53	Yes
Mean:	0.053	0.053	0.0001				
SD:	0.005	0.005	0.0000				
%RSD:	9.800	9.800	33.87				

=====  
 Sequence No.: 35      Autosampler Location: 1  
 Sample ID: CCV      Date Collected: 3/28/2012 17:50:55  
 Analyst:      Data Type: Original  
 =====

Replicate Data: CCV

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak
------	------------	----------	----------	------	------	------	------



Method: Mercury Soil &amp; Water

Page 9

Date: 3/28/2012 18:00:53

#	ug/L	ug/L	Signal	Area	Height	Time	Stored
1	3.103	3.103	0.0248	0.1344	0.0253	17:52:01	Yes
2	3.116	3.116	0.0249	0.1342	0.0254	17:52:47	Yes
Mean:	3.110	3.110	0.0248				
SD:	0.010	0.010	0.0001				
%RSD:	0.313	0.313	0.32				

QC value within limits for Hg 253.7 Recovery = 103.65%  
All analyte(s) passed QC.

Sequence No.: 36

Autosampler Location: 2

Sample ID: CCB

Date Collected: 3/28/2012 17:53:34

Analyst:

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.040	0.040	0.0000	0.0014	0.0005	17:54:40	Yes
2	0.062	0.062	0.0002	0.0047	0.0007	17:55:22	Yes
Mean:	0.051	0.051	0.0001				
SD:	0.016	0.016	0.0001				
%RSD:	31.03	31.03	119.08				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

Sequence No.: 37

Autosampler Location: 58

Sample ID: 600-52215-g-1-g

Date Collected: 3/28/2012 17:55:24

Analyst: SRP

Data Type: Original

Replicate Data: 600-52215-g-1-g

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.051	0.051	0.0001	0.0037	0.0006	17:56:29	Yes
2	0.044	0.044	0.0001	0.0025	0.0006	17:57:11	Yes
Mean:	0.048	0.048	0.0001				
SD:	0.005	0.005	0.0000				
%RSD:	9.527	9.527	46.07				

Sequence No.: 38

Autosampler Location: 59

Sample ID: 600-52350-a-1-f

Date Collected: 3/28/2012 17:57:13

Analyst: SRP

Data Type: Original

Replicate Data: 600-52350-a-1-f

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.047	0.047	0.0001	0.0032	0.0006	17:58:18	Yes
2	0.023	0.023	-0.0001	0.0018	0.0004	17:59:00	Yes
Mean:	0.035	0.035	-0.0000				
SD:	0.017	0.017	0.0001				
%RSD:	49.68	49.68	585.69				

Sequence No.: 39

Autosampler Location: 60

Sample ID: 600-52295-a-3-f

Date Collected: 3/28/2012 17:59:02

Analyst: SRP

Data Type: Original

Replicate Data: 600-52295-a-3-f

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.061	0.061	0.0002	0.0039	0.0007	18:00:07	Yes
2	0.046	0.046	0.0001	0.0041	0.0006	18:00:49	Yes
Mean:	0.054	0.054	0.0001				
SD:	0.011	0.011	0.0001				
%RSD:	19.83	19.83	66.16				

Method: Mercury Soil &amp; Water

Page 10

Date: 3/28/2012 18:10:04

Sequence No.: 40

Sample ID: 1b 600-75712/1-d

Analyst: SRP

Autosampler Location: 61

Date Collected: 3/28/2012 18:00:51

Data Type: Original

-----  
Replicate Data: 1b 600-75712/1-d

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.049	0.049	0.0001	0.0033	0.0006	18:02:00	Yes
2	0.025	0.025	-0.0001	0.0016	0.0004	18:02:42	Yes
Mean:	0.037	0.037	-0.0000				
SD:	0.017	0.017	0.0001				
%RSD:	45.90	45.90	>999.9%				

=====

Sequence No.: 41

Sample ID: 600-52214-g-1-g

Analyst: SRP

Autosampler Location: 62

Date Collected: 3/28/2012 18:02:44

Data Type: Original

-----  
Replicate Data: 600-52214-g-1-g

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.061	0.061	0.0002	0.0032	0.0007	18:03:51	Yes
2	0.032	0.032	-0.0000	0.0015	0.0005	18:04:33	Yes
Mean:	0.047	0.047	0.0001				
SD:	0.020	0.020	0.0002				
%RSD:	43.77	43.77	229.67				

=====

Sequence No.: 42

Sample ID: 1b 600-75739/1-e

Analyst: SRP

Autosampler Location: 63

Date Collected: 3/28/2012 18:04:35

Data Type: Original

-----  
Replicate Data: 1b 600-75739/1-e

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.061	0.061	0.0002	0.0035	0.0007	18:05:40	Yes
2	0.047	0.047	0.0001	0.0023	0.0006	18:06:22	Yes
Mean:	0.054	0.054	0.0001				
SD:	0.010	0.010	0.0001				
%RSD:	18.25	18.25	60.23				

=====

Sequence No.: 43

Sample ID: 600-52256-f-1-h

Analyst: SRP

Autosampler Location: 64

Date Collected: 3/28/2012 18:06:23

Data Type: Original

-----  
Replicate Data: 600-52256-f-1-h

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.039	0.039	0.0000	0.0022	0.0005	18:07:29	Yes
2	0.030	0.030	-0.0001	0.0026	0.0005	18:08:11	Yes
Mean:	0.035	0.035	-0.0000				
SD:	0.006	0.006	0.0000				
%RSD:	17.63	17.63	214.02				

=====

Sequence No.: 44

Sample ID: 600-52256-g-2-g

Analyst: SRP

Autosampler Location: 65

Date Collected: 3/28/2012 18:08:12

Data Type: Original

-----  
Replicate Data: 600-52256-g-2-g

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.052	0.052	0.0001	0.0041	0.0006	18:09:17	Yes
2	0.056	0.056	0.0001	0.0034	0.0007	18:09:59	Yes
Mean:	0.054	0.054	0.0001				
SD:	0.003	0.003	0.0000				

Method: Mercury Soil &amp; Water

Page 11

Date: 3/28/2012 18:18:33

%RSD: 4.879 4.879 16.33

Sequence No.: 45

Autosampler Location: 66

Sample ID: 600-52258-b-2-g

Date Collected: 3/28/2012 18:10:05

Analyst: SRP

Data Type: Original

-----  
Replicate Data: 600-52258-b-2-g

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.002	0.002	-0.0003	-0.0007	0.0002	18:11:10	Yes
2	0.025	0.025	-0.0001	0.0033	0.0004	18:11:52	Yes
Mean:	0.013	0.013	-0.0002				
SD:	0.016	0.016	0.0001				
%RSD:	117.0	117.0	64.85				

Sequence No.: 46

Autosampler Location: 67

Sample ID: 600-51958-b-1-b

Date Collected: 3/28/2012 18:11:54

Analyst: SRP

Data Type: Original

-----  
Replicate Data: 600-51958-b-1-b

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.050	0.050	0.0001	0.0048	0.0006	18:12:59	Yes
2	0.054	0.054	0.0001	0.0039	0.0006	18:13:41	Yes
Mean:	0.052	0.052	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	5.416	5.416	19.24				

Sequence No.: 47

Autosampler Location: 1

Sample ID: CCV

Date Collected: 3/28/2012 18:13:43

Analyst:

Data Type: Original

-----  
Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.885	2.885	0.0230	0.1242	0.0235	18:14:50	Yes
2	2.879	2.879	0.0230	0.1264	0.0235	18:15:32	Yes
Mean:	2.882	2.882	0.0230				
SD:	0.004	0.004	0.0000				
%RSD:	0.153	0.153	0.16				

QC value within limits for Hg 253.7 Recovery = 96.07%

All analyte(s) passed QC.

Sequence No.: 48

Autosampler Location: 2

Sample ID: CCB

Date Collected: 3/28/2012 18:15:33

Analyst:

Data Type: Original

-----  
Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.033	0.033	-0.0000	0.0013	0.0005	18:16:39	Yes
2	0.039	0.039	0.0000	0.0028	0.0005	18:17:21	Yes
Mean:	0.036	0.036	-0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	11.20	11.20	268.54				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 49

Autosampler Location: 68

Sample ID: 600-51958-b-2-b

Date Collected: 3/28/2012 18:17:22

Analyst: SRP

Data Type: Original



Method: Mercury Soil &amp; Water

Page 12

Date: 3/28/2012 18:26:34

## Replicate Data: 600-51958-b-2-b

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.049	0.049	0.0001	0.0030	0.0006	18:18:29	Yes
2	0.027	0.027	-0.0001	0.0023	0.0004	18:19:15	Yes
Mean:	0.038	0.038	-0.0000				
SD:	0.016	0.016	0.0001				
%RSD:	41.32	41.32	>999.9%				

Sequence No.: 50

Sample ID: 600-51958-b-3-b

Analyst: SRP

Autosampler Location: 69

Date Collected: 3/28/2012 18:19:16

Data Type: Original

## Replicate Data: 600-51958-b-3-b

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.030	0.030	-0.0001	0.0020	0.0004	18:20:22	Yes
2	0.048	0.048	0.0001	0.0025	0.0006	18:21:04	Yes
Mean:	0.039	0.039	0.0000				
SD:	0.013	0.013	0.0001				
%RSD:	33.54	33.54	>999.9%				

Sequence No.: 51

Sample ID: 600-51958-a-3-c ms

Analyst: SRP

Autosampler Location: 70

Date Collected: 3/28/2012 18:21:05

Data Type: Original

## Replicate Data: 600-51958-a-3-c ms

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.647	1.647	0.0130	0.0841	0.0135	18:22:10	Yes
2	1.652	1.652	0.0131	0.0839	0.0136	18:22:52	Yes
Mean:	1.650	1.650	0.0130				
SD:	0.003	0.003	0.0000				
%RSD:	0.204	0.204	0.21				

Sequence No.: 52

Sample ID: 600-51958-a-3-d msd

Analyst: SRP

Autosampler Location: 71

Date Collected: 3/28/2012 18:22:54

Data Type: Original

## Replicate Data: 600-51958-a-3-d msd

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.532	1.532	0.0121	0.0824	0.0126	18:23:59	Yes
2	1.547	1.547	0.0122	0.0825	0.0127	18:24:41	Yes
Mean:	1.539	1.539	0.0121				
SD:	0.011	0.011	0.0001				
%RSD:	0.698	0.698	0.72				

Sequence No.: 53

Sample ID: 600-51958-a-4-b

Analyst: SRP

Autosampler Location: 72

Date Collected: 3/28/2012 18:24:43

Data Type: Original

## Replicate Data: 600-51958-a-4-b

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.014	-0.014	-0.0004	-0.0022	0.0001	18:25:48	Yes
2	0.077	0.077	0.0003	0.0040	0.0008	18:26:30	Yes
Mean:	0.032	0.032	-0.0000				
SD:	0.064	0.064	0.0005				
%RSD:	203.3	203.3	>999.9%				

Sequence No.: 54

Sample ID: 600-52344-b-1-b

Autosampler Location: 73

Date Collected: 3/28/2012 18:26:32

Method: Mercury Soil &amp; Water

Page 13

Date: 3/28/2012 18:35:43

Analyst: SRP

Data Type: Original

-----  
Replicate Data: 600-52344-b-1-b

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.067	0.067	0.0002	0.0033	0.0008	18:27:41	Yes
2	0.091	0.091	0.0004	0.0061	0.0009	18:28:22	Yes
Mean:	0.079	0.079	0.0003				
SD:	0.017	0.017	0.0001				
%RSD:	21.21	21.21	40.55				

=====

Sequence No.: 55  
Sample ID: SD-600-52295-a-1-f  
Analyst: SRPAutosampler Location: 74  
Date Collected: 3/28/2012 18:28:24  
Data Type: Original-----  
Replicate Data: SD-600-52295-a-1-f

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.090	0.090	0.0004	0.0062	0.0009	18:29:31	Yes
2	0.082	0.082	0.0004	0.0036	0.0009	18:30:13	Yes
Mean:	0.086	0.086	0.0004				
SD:	0.005	0.005	0.0000				
%RSD:	6.048	6.048	10.75				

=====

Sequence No.: 56  
Sample ID: SD-600-51958-b-3-b  
Analyst: SRPAutosampler Location: 75  
Date Collected: 3/28/2012 18:30:15  
Data Type: Original-----  
Replicate Data: SD-600-51958-b-3-b

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.029	0.029	-0.0001	0.0000	0.0004	18:31:19	Yes
2	0.065	0.065	0.0002	0.0044	0.0007	18:32:01	Yes
Mean:	0.047	0.047	0.0001				
SD:	0.025	0.025	0.0002				
%RSD:	53.59	53.59	274.06				

=====

Sequence No.: 57  
Sample ID: CCV  
Analyst:Autosampler Location: 1  
Date Collected: 3/28/2012 18:32:03  
Data Type: Original-----  
Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.959	2.959	0.0236	0.1325	0.0241	18:33:09	Yes
2	2.911	2.911	0.0232	0.1259	0.0237	18:33:51	Yes
Mean:	2.935	2.935	0.0234				
SD:	0.034	0.034	0.0003				
%RSD:	1.160	1.160	1.18				

QC value within limits for Hg 253.7 Recovery = 97.83%  
All analyte(s) passed QC.

=====

Sequence No.: 58  
Sample ID: CCB  
Analyst:Autosampler Location: 2  
Date Collected: 3/28/2012 18:33:52  
Data Type: Original-----  
Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.102	0.102	0.0005	0.0079	0.0010	18:34:57	Yes
2	0.056	0.056	0.0002	0.0026	0.0007	18:35:39	Yes
Mean:	0.079	0.079	0.0003				
SD:	0.032	0.032	0.0003				

Method: Mercury Soil & Water

Page 14

Date: 3/28/2012 18:35:55

%RSD: 40.56      40.56      77.48  
QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

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METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 75042 Batch Start Date: 03/19/12 11:36 Batch Analyst: Racelis, Froilan Noel E  
 Batch Method: 3010A Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	METHCL 00036	METHN03 00027	METSPIKEA 00011
MB 600-75042/1		3010A, 6010B			50 mL	50 mL	2.5 mL	2.5 mL	
LCS 600-75042/2		3010A, 6010B			50 mL	50 mL	2.5 mL	2.5 mL	250 uL
600-52117-C-1	IDW 3	3010A, 6010B	T	<2	50 mL	50 mL	2.5 mL	2.5 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	METSPIKEB 00012
MB 600-75042/1		3010A, 6010B		
LCS 600-75042/2		3010A, 6010B		250 uL
600-52117-C-1	IDW 3	3010A, 6010B	T	

Batch Notes	
Hood ID or number	M5
Hot Block ID number	HB 02
Temperature	95
ID number of the thermometer	517

Basis	Basis Description
T	Total/NA





METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 75754 Batch Start Date: 03/27/12 14:15 Batch Analyst: Racelis, Froilan Noel E  
 Batch Method: 3010A Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	METHCL 00036	METHNO3 00027	METSPIKEA 00011	METSPIKEB 00012
MB 600-75754/1		3010A, 6010B		50 mL	50 mL	2.5 mL	2.5 mL		
LCS 600-75754/2		3010A, 6010B		50 mL	50 mL	2.5 mL	2.5 mL	250 uL	250 uL
LB 600-75710/1-A		3010A, 6010B		5 mL	50 mL	2.5 mL	2.5 mL		
600-52117-B-1-A	IDW 3	3010A, 6010B	P	5 mL	50 mL	2.5 mL	2.5 mL		
600-52117-B-1-A	IDW 3	3010A, 6010B	P	5 mL	50 mL	2.5 mL	2.5 mL	250 uL	250 uL
MS									

Batch Notes	
Hood ID or number	M5
Hot Block ID number	HB 04
Temperature	95
ID number of the thermometer	555

Basis	Basis Description
P	TCLP

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METALS BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 75815 Batch Start Date: 03/28/12 08:49 Batch Analyst: Patel, Silen R  
 Batch Method: 7470A Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MER0312HS 00002	MER0312KM 00004	MER0312PP 00001	MER0312S2 00019
MB 600-75815/7		7470A, 7470A		40 mL	40 mL	3 mL	6 mL	3.2 mL	
LCS 600-75815/8		7470A, 7470A		50 mL	50 mL	3 mL	6 mL	3.2 mL	1.5 mL
LB 600-75710/1-A		7470A, 7470A		40 mL	40 mL	3 mL	6 mL	3.2 mL	
600-52117-B-1-A	IDW 3	7470A, 7470A	P	40 mL	40 mL	3 mL	6 mL	3.2 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MERSUL 00025	METHNO3 00027
MB 600-75815/7		7470A, 7470A		2 mL	1 mL
LCS 600-75815/8		7470A, 7470A		2 mL	1 mL
LB 600-75710/1-A		7470A, 7470A		2 mL	1 mL
600-52117-B-1-A	IDW 3	7470A, 7470A	P	2 mL	1 mL

Batch Notes	

Basis	Basis Description
P	TCLP

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# GENERAL CHEMISTRY

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-52117-1

SDG No.: \_\_\_\_\_

Project: Exide Recycling Center, Frisco TX Projec

Client Sample ID	Lab Sample ID
<u>IDW 3</u>	<u>600-52117-1</u>

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Comments:

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1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: IDW 3 Lab Sample ID: 600-52117-1  
 Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG ID.: \_\_\_\_\_  
 Matrix: Water Date Sampled: 03/15/2012 12:10  
 Reporting Basis: WET Date Received: 03/16/2012 09:09

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Reactive	0.0397	0.250	0.0397	mg/L	U		1	9012
	Sulfide, Reactive	1.40	50.0	1.40	mg/L	U		1	7.4.4

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1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: IDW 3 Lab Sample ID: 600-52117-1  
 Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG ID.: \_\_\_\_\_  
 Matrix: Water Date Sampled: 03/15/2012 12:10  
 Reporting Basis: WET Date Received: 03/16/2012 09:09

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	7.47	0.0100		SU		H	1	9040B
	Flashpoint	>186	1.00		Degrees F			1	SW846 Ch. 7

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2-IN  
CALIBRATION QUALITY CONTROL  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Analyst: MB Batch Start Date: 03/26/2012  
 Reporting Units: SU Analytical Batch No.: 75619

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
13	CCV	09:20	pH	7.030	7.00	100	99-101		WETRP7BUF_00015
25	CCV	09:20	pH	7.010	7.00	100	99-101		WETRP7BUF_00015

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Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN  
CALIBRATION QUALITY CONTROL  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Analyst: SUP Batch Start Date: 03/22/2012  
 Reporting Units: Degrees F Analytical Batch No.: 75477

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
9	CCV	16:00	Flashpoint	82.18	81.0	101	96.91-103.09		WETRPXYLEN_00005

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Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN



3-IN  
METHOD BLANK  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-52117-1

SDG No.: \_\_\_\_\_

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 77293 Date: 04/16/2012 16:36 Prep Batch: 77259 Date: 04/16/2012 13:19							
7.4.4	MB 600-77259/1-A	Sulfide, Reactive	1.40	U	mg/L	50.0	1
Batch ID: 75896 Date: 03/27/2012 17:00 Prep Batch: 75813 Date: 03/27/2012 17:00							
9012	MB 600-75813/1-A	Cyanide, Reactive	0.0397	U	mg/L	0.250	1
Batch ID: 75477 Date: 03/22/2012 16:00							
SW846 Ch. 7	MB 600-75477/1	Flashpoint	>186		Degrees F	1.00	1

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5-IN  
MATRIX SPIKE SAMPLE RECOVERY  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 77293 Date: 04/16/2012 17:39 Prep Batch: 77259 Date: 04/16/2012 13:19											
7.4.4	600-52117-1	Sulfide, Reactive	1.40	U	mg/L						
7.4.4	600-52117-1	Sulfide, Reactive	1.40	U	mg/L	2260	0	0-100			
MS											
Batch ID: 75896 Date: 03/27/2012 17:00 Prep Batch: 75826 Date: 03/28/2012 09:29											
9012	600-52117-1	Cyanide, Reactive	0.0397	U	mg/L						
9012	600-52117-1	Cyanide, Reactive	91.13	mg/L		1000000	0.009	0-100			
MS											

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN



6-IN  
DUPLICATE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-52117-1

SDG No.: \_\_\_\_\_

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 75896		Date: 03/27/2012 17:00		Prep Batch: 75826		Date: 03/28/2012 09:29		
9012	IDW 3	600-52117-1	Cyanide, Reactive	0.0397	mg/L			U
9012	IDW 3	600-52117-1 DU	Cyanide, Reactive	0.0397	mg/L	NC	20	U
Batch ID: 75477		Date: 03/22/2012 16:00						
SW846 Ch. 7	IDW 3	600-52117-1	Flashpoint	>186	Degree s F			
SW846 Ch. 7	IDW 3	600-52117-1 DU	Flashpoint	>186	Degree s F	NC	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN



7A-IN  
LAB CONTROL SAMPLE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-52117-1

SDG No.: \_\_\_\_\_

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 77293 Date: 04/16/2012 16:36 Prep Batch: 77259 Date: 04/16/2012 13:19											
LCS Source: SULFTSLCS_00506											
7.4.4	LCS 600-77259/2-A	Sulfide, Reactive	1.40	U	mg/L	2260	0	0-100			
Batch ID: 75896 Date: 03/27/2012 17:00 Prep Batch: 75813 Date: 03/27/2012 17:00											
LCS Source: WETRCYANID_00016											
9012	LCS 600-75813/2-A	Cyanide, Reactive	62.65		mg/L	1000000	0.006	0-100			
Batch ID: 75619 Date: 03/26/2012 09:20											
LCS Source: WETRP7BUF_00015											
9040B	LCS 600-75619/1	pH	6.980		SU	7.00	100	99-101			
Batch ID: 75477 Date: 03/22/2012 16:00											
LCS Source: WETRPXYLEN_00005											
SW846 Ch. 7	LCS 600-75477/2	Flashpoint	82.18		Degrees F	81.0	101	96.91-1 03.09			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN



9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-52117-1  
SDG Number: \_\_\_\_\_  
Matrix: Water Instrument ID: NOEQUIP  
Method: 9012 XMDL Date: 04/01/2011 13:46

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (mg/L)
Cyanide, Reactive		10	1.589

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9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-52117-1  
SDG Number: \_\_\_\_\_  
Matrix: Water Instrument ID: NOEQUIP  
Method: 9012 MDL Date: 04/01/2011 13:46  
Prep Method: 7.3.3

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Cyanide, Reactive		250	39.725

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9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-52117-1  
 SDG Number: \_\_\_\_\_  
 Matrix: Water Instrument ID: NOEQUIP  
 Method: 7.4.4 MDL Date: 06/13/2008 17:51  
 Prep Method: 7.3.4

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfide, Reactive		50	1.399

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9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-52117-1  
SDG Number: \_\_\_\_\_  
Matrix: Water Instrument ID: NOEQUIP  
Method: 7.4.4 XMDL Date: 06/13/2008 17:57

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfide, Reactive		50	1.399

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9-IN  
 DETECTION LIMITS  
 GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-52117-1  
 SDG Number: \_\_\_\_\_  
 Matrix: Water Instrument ID: NOEQUIP  
 Method: 9040B RL Date: 07/03/2008 13:54

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.01	

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9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-52117-1  
SDG Number: \_\_\_\_\_  
Matrix: Water Instrument ID: NOEQUIP  
Method: 9040B XRL Date: 07/03/2008 13:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.01	

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9-IN  
 DETECTION LIMITS  
 GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-52117-1  
 SDG Number: \_\_\_\_\_  
 Matrix: Water Instrument ID: NOEQUIP  
 Method: SW846 Ch. 7 RL Date: 11/09/2005 14:49

Analyte	Wavelength/ Mass	RL (Degrees)	
Flashpoint		1	

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9-IN  
 CALIBRATION BLANK DETECTION LIMITS  
 GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job Number: 600-52117-1  
 SDG Number: \_\_\_\_\_  
 Matrix: Water Instrument ID: NOEQUIP  
 Method: SW846 Ch. 7 XRL Date: 06/09/2008 16:47

Analyte	Wavelength/ Mass	XRL (Degrees	
Flashpoint		1	

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12-IN  
PREPARATION LOG  
GENERAL CHEMISTRYLab Name: TestAmerica Houston Job No.: 600-52117-1

SDG No.: \_\_\_\_\_

Prep Method: 7.3.3

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 600-75813/1-A	03/27/2012 17:00	75813	10		250
LCS 600-75813/2-A	03/27/2012 17:00	75813	10		250

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12-IN  
PREPARATION LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-52117-1

SDG No.: \_\_\_\_\_

Prep Method: 7.3.3

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
600-52117-1	03/28/2012 09:29	75826	10		250
600-52117-1 DU	03/28/2012 09:29	75826	10		250
600-52117-1 MS	03/28/2012 09:29	75826	10		250

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12-IN  
PREPARATION LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-52117-1

SDG No.: \_\_\_\_\_

Prep Method: 7.3.4

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 600-77259/1-A	04/16/2012 13:19	77259		10	250
LCS 600-77259/2-A	04/16/2012 13:19	77259		10	250
600-52117-1	04/16/2012 13:19	77259		10	250
600-52117-1 MS	04/16/2012 13:19	77259		10	250

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13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: NOEQUIP Method: 9012  
 Start Date: 03/27/2012 17:00 End Date: 03/27/2012 17:00

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				C N R e a c																			
MB 600-75813/1-A	1	T	17:00	X																			
LCS 600-75813/2-A	20	T	17:00	X																			
ZZZZZZ			17:00																				
ZZZZZZ			17:00																				
ZZZZZZ			17:00																				
ZZZZZZ			17:00																				
ZZZZZZ			17:00																				
600-52117-1	1	T	17:00	X																			
600-52117-1 DU	1	T	17:00	X																			
600-52117-1 MS	20	T	17:00	X																			
ZZZZZZ			17:00																				

Prep Types  
T = Total/NA

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13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: NOEQUIP Method: 7.4.4  
 Start Date: 04/16/2012 16:36 End Date: 04/16/2012 17:39

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				S	2	R	e	a	c														
MB 600-77259/1-A	1	T	16:36	X																			
LCS 600-77259/2-A	1	T	16:36	X																			
ZZZZZZ			16:36																				
ZZZZZZ			16:36																				
ZZZZZZ			16:36																				
ZZZZZZ			16:36																				
ZZZZZZ			16:36																				
600-52117-1	1	T	16:36	X																			
600-52117-1 MS	1	T	17:39	X																			

Prep Types  
T = Total/NA

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13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: NOEQUIP Method: SW846 Ch. 7  
 Start Date: 03/22/2012 16:00 End Date: 03/22/2012 16:00

Lab Sample ID	D / F	T y p e	Time	Analytes															
				F P															
MB 600-75477/1	1	T	16:00	X															
LCS 600-75477/2	1	T	16:00	X															
600-52117-1	1	T	16:00	X															
600-52117-1 DU	1	T	16:00	X															
ZZZZZZ			16:00																
ZZZZZZ			16:00																
ZZZZZZ			16:00																
ZZZZZZ			16:00																
CCV 600-75477/9	1		16:00	X															

Prep Types  
T = Total/NA

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 ✓ 335.1-75893  
 901221-75894

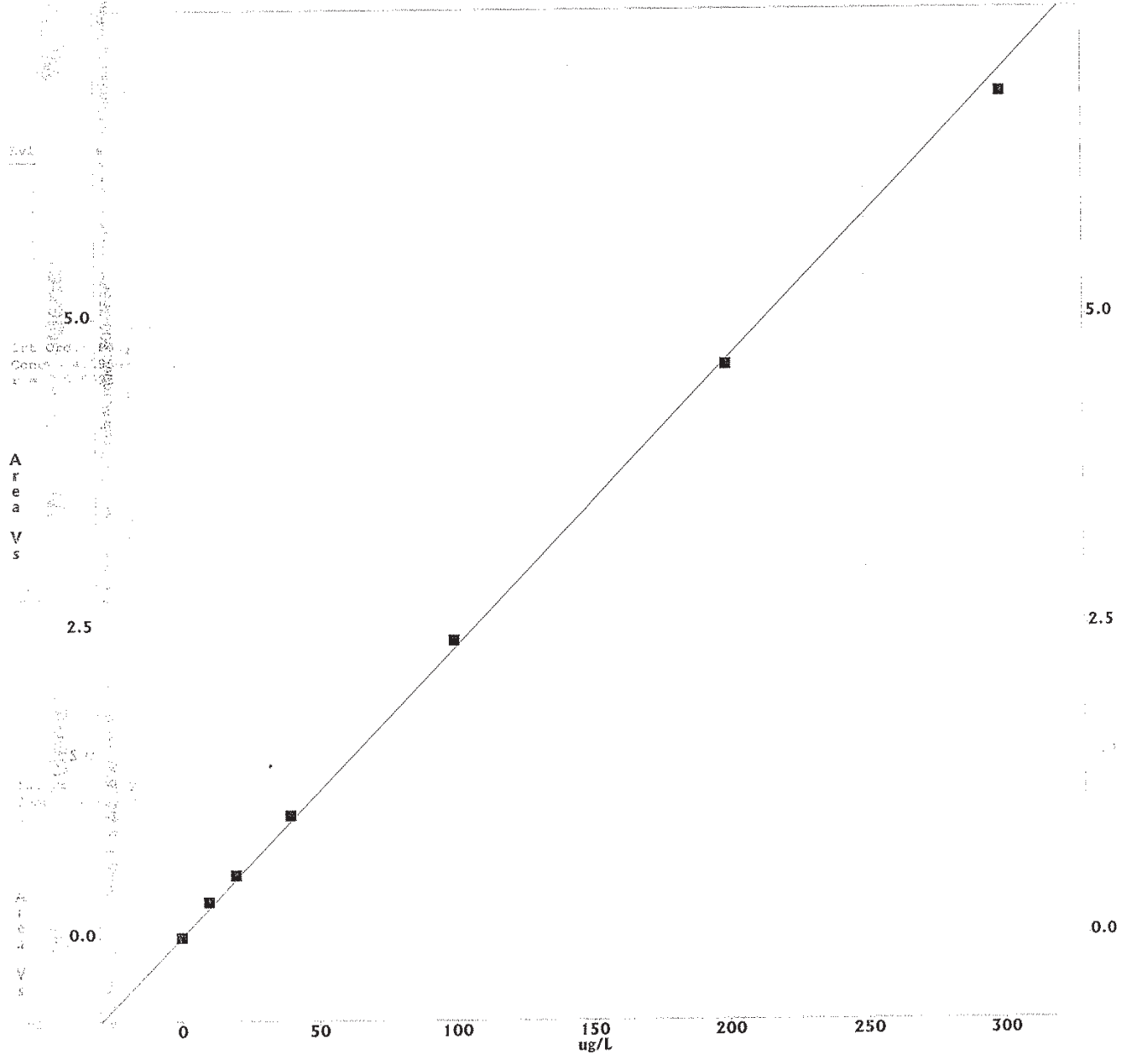
cyanide

Lvl	Area	ug/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	6806823	300	6806823					0.0	0.0	2.5
2	4620199	200	4620199					0.0	0.0	0.8
3	2397517	100	2397517					0.0	0.0	-3.0
4	983450	40	983450					0.0	0.0	-5.6
5	502029	20	502029					0.0	0.0	-7.8
6	287821	10	287821					0.0	0.0	-23.6
7	0	0	0					0.0	0.0	

1st Order Poly  
 Conc = 4.295e-005 Area - 1.340e-005  
 r = 0.9995

*Handwritten signature* 3/20/12

Scaling: None - Weighting: 1/X



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**OPERATOR:** gcw  
**ACQ. TIME:** Mar 28, 2012 15:59:23  
**DATA FILENAME:** C:\OMNION\DATA\CYANIDE\032812CA.FDT  
**METHOD FILENAME:** C:\OMNION\METHODS\CYANIDE\CYANIDE.MET  
**TRAY FILENAME:**

METHOD: EPA 335.3/FIA #1

Method - Ch. 1 (cyanide)

**METHOD DESCRIPTION:**  
 Created: Oct 7, 2003 14:14:00  
 Modified: Mar 26, 2012 17:37:03  
 cyanide

**ANALYTE DATA:**  
 Analyte Name: cyanide  
 Concentration Units: ug/L  
 Chemistry: Direct  
 Inject to Peak Start (s): 25.0  
 Peak Base Width (s): 42.000  
 % Width Tolerance: 50.000  
 Threshold: 5000.000  
 Autodilution Trigger: Off  
 QuikChem Method:

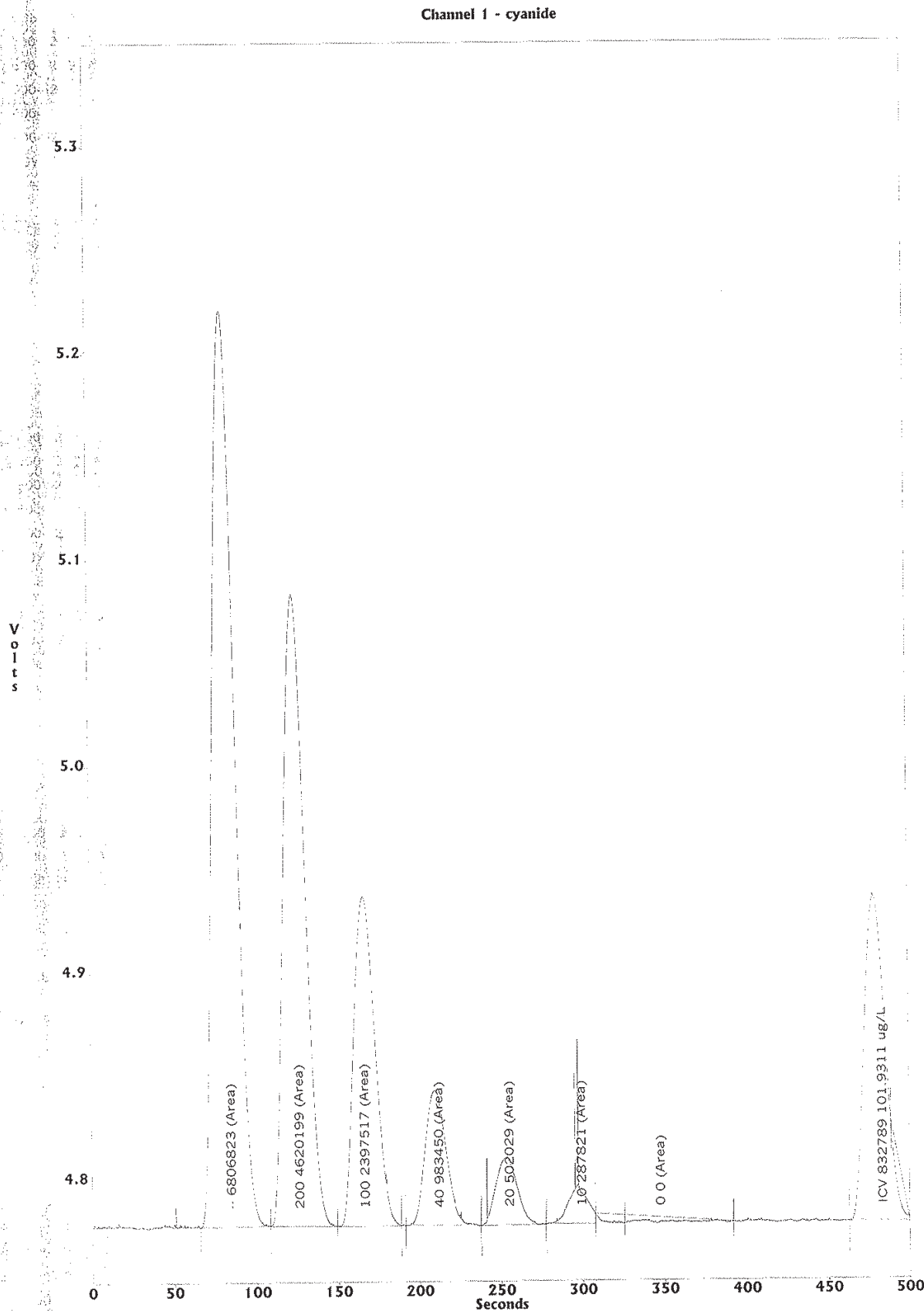
**CALIBRATION DATA:**  
 Levels:  
 1 : 300.000    2 : 200.000    3 : 100.000    4 : 40.000  
 5 : 20.000    6 : 10.000    7 : 0.000  
 Calibration Rep Handling: Replace  
 Calibration Fit Type: 1st Order Poly  
 Force Through Zero: No  
 Weighting Method: 1/X  
 Concentration Scaling: None



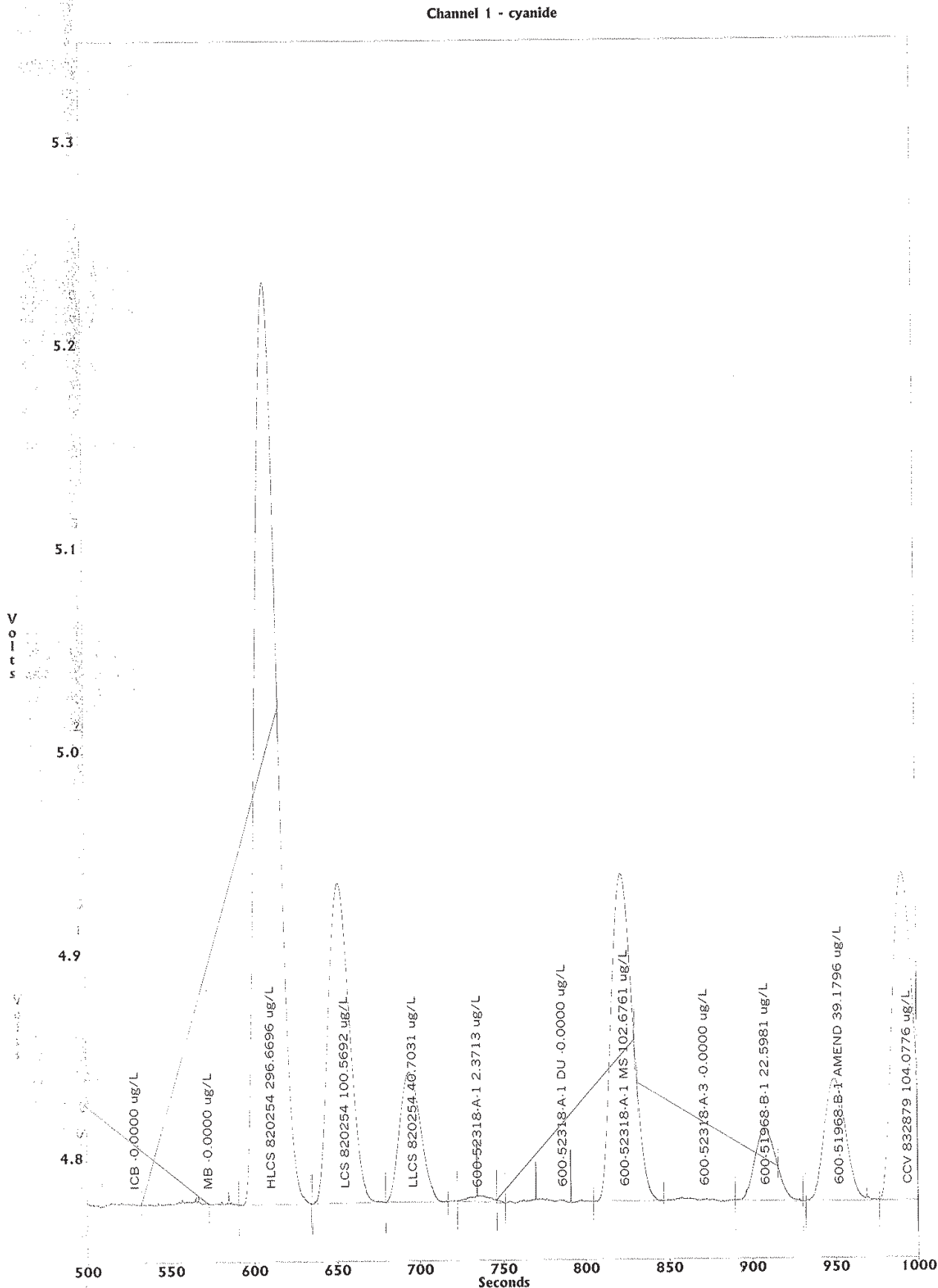
Multi-Channel Table  
Type: Unknowns  
Channel Range: 1 to 1 -- Cup Range: 1 to 50

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	cyanide (ug/L)	Man Dil Factor	Auto Dil Factor	Weight	Unit
1	ICV 832789	28 Mar 2012	16:06:02	1	101.93108	1.0	1.00	1.00000	
2	ICB	28 Mar 2012	16:06:46	1	-0.00001	1.0	1.00	1.00000	
3	MB	28 Mar 2012	16:07:30	1	-0.00001	1.0	1.00	1.00000	
4	HLCS 820254	28 Mar 2012	16:08:12	1	296.66959	1.0	1.00	1.00000	
5	LCS 820254	28 Mar 2012	16:08:55	1	100.56921	1.0	1.00	1.00000	
6	LLCS 820254	28 Mar 2012	16:09:38	1	40.70315	1.0	1.00	1.00000	
7	600-52318-A-1	28 Mar 2012	16:10:20	1	2.37134	1.0	1.00	1.00000	
8	600-52318-A-1 DU	28 Mar 2012	16:11:03	1	-0.00001	1.0	1.00	1.00000	
9	600-52318-A-1 MS	28 Mar 2012	16:11:46	1	102.67609	1.0	1.00	1.00000	
10	600-52318-A-3	28 Mar 2012	16:12:29	1	-0.00001	1.0	1.00	1.00000	
11	600-51968-B-2 <sup>2</sup> AMEND	28 Mar 2012	16:13:11	1	22.59814	1.0	1.00	1.00000	
12	600-51968-B-2 <sup>3</sup> AMEND	28 Mar 2012	16:13:53	1	39.17959	1.0	1.00	1.00000	
13	CCV 832879	28 Mar 2012	16:14:35	1	104.07757	1.0	1.00	1.00000	
14	CCB	28 Mar 2012	16:15:16	1	-0.00001	1.0	1.00	1.00000	
15	600-52337-B-2	28 Mar 2012	16:15:58	1	23.54439	1.0	1.00	1.00000	
16	600-52337-B-2 AMEND	28 Mar 2012	16:16:42	1	32.18481	1.0	1.00	1.00000	
17	600-52727-A-1	28 Mar 2012	16:17:26	1	22.12255	1.0	1.00	1.00000	
18	600-52727-A-1 DU	28 Mar 2012	16:18:09	1	22.24570	1.0	1.00	1.00000	
19	600-52727-A-1 MS	28 Mar 2012	16:18:53	1	127.86776	1.0	1.00	1.00000	
20	600-52727-A-1 AMEND	28 Mar 2012	16:19:37	1	34.15698	1.0	1.00	1.00000	
21	600-52383-A-1	28 Mar 2012	16:20:20	1	4.48488	1.0	1.00	1.00000	
22	600-52383-A-2	28 Mar 2012	16:21:02	1	15.69073	1.0	1.00	1.00000	
23	600-52498-A-1	28 Mar 2012	16:21:45	1	5.07371	1.0	1.00	1.00000	
24	600-52498-A-2	28 Mar 2012	16:22:28	1	13.36555	1.0	1.00	1.00000	
25	CCV 832879	28 Mar 2012	16:23:10	1	103.27758	1.0	1.00	1.00000	
26	CCB	28 Mar 2012	16:23:53	1	-0.00001	1.0	1.00	1.00000	
27	600-52498-A-3	28 Mar 2012	16:24:36	1	1259.23694	1.0	1.00	1.00000	
28	600-52498-A-4	28 Mar 2012	16:25:17	1	5.59277	1.0	1.00	1.00000	
29	RMB 600-75826/1-A	28 Mar 2012	16:25:59	1	-0.00001	1.0	1.00	1.00000	
30	RLCS 600-75826/2-A@20	28 Mar 2012	16:28:31	1	125.29512	1.0	1.00	1.00000	
31	600-52424-A-1-I	28 Mar 2012	16:29:14	1	-0.00001	1.0	1.00	1.00000	
32	600-52424-A-1-J DU	28 Mar 2012	16:29:58	1	-0.00001	1.0	1.00	1.00000	
33	600-52424-A-1-K MS@20	28 Mar 2012	16:30:42	1	96.46699	1.0	1.00	1.00000	
34	600-52577-A-1-D	28 Mar 2012	16:31:26	1	-0.00001	1.0	1.00	1.00000	
35	600-52577-A-2-D	28 Mar 2012	16:32:09	1	-0.00001	1.0	1.00	1.00000	
36	560-31192-D-1-B	28 Mar 2012	16:32:53	1	-0.00001	1.0	1.00	1.00000	
37	CCV 832879	28 Mar 2012	16:33:36	1	106.16362	1.0	1.00	1.00000	
38	CCB	28 Mar 2012	16:34:19	1	-0.00001	1.0	1.00	1.00000	
39	600-52117-A-1-G	28 Mar 2012	16:35:01	1	-0.00001	1.0	1.00	1.00000	
40	600-52117-A-1-H DU	28 Mar 2012	16:35:44	1	-0.00001	1.0	1.00	1.00000	
41	600-52117-A-1-I MS@20	28 Mar 2012	16:36:27	1	182.25539	1.0	1.00	1.00000	
42	600-52189-A-1-C	28 Mar 2012	16:37:09	1	-0.00001	1.0	1.00	1.00000	
43	600-52498-A-3@20	28 Mar 2012	16:37:52	1	135.73401	1.0	1.00	1.00000	
44	CCV 832879	28 Mar 2012	16:40:12	1	104.51468	1.0	1.00	1.00000	
45	CCB	28 Mar 2012	16:40:54	1	-0.00001	1.0	1.00	1.00000	

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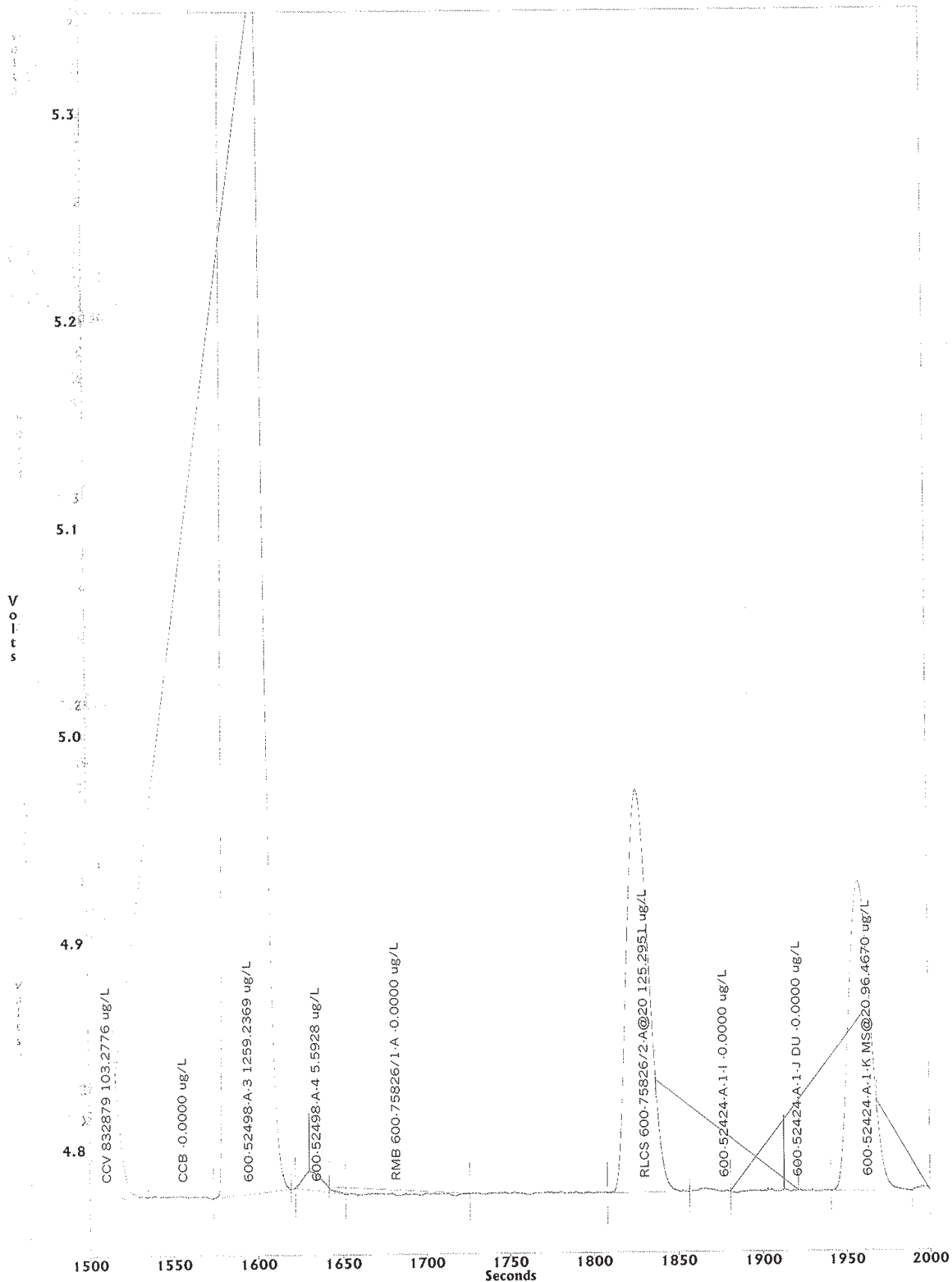


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Channel 1 - cyanide

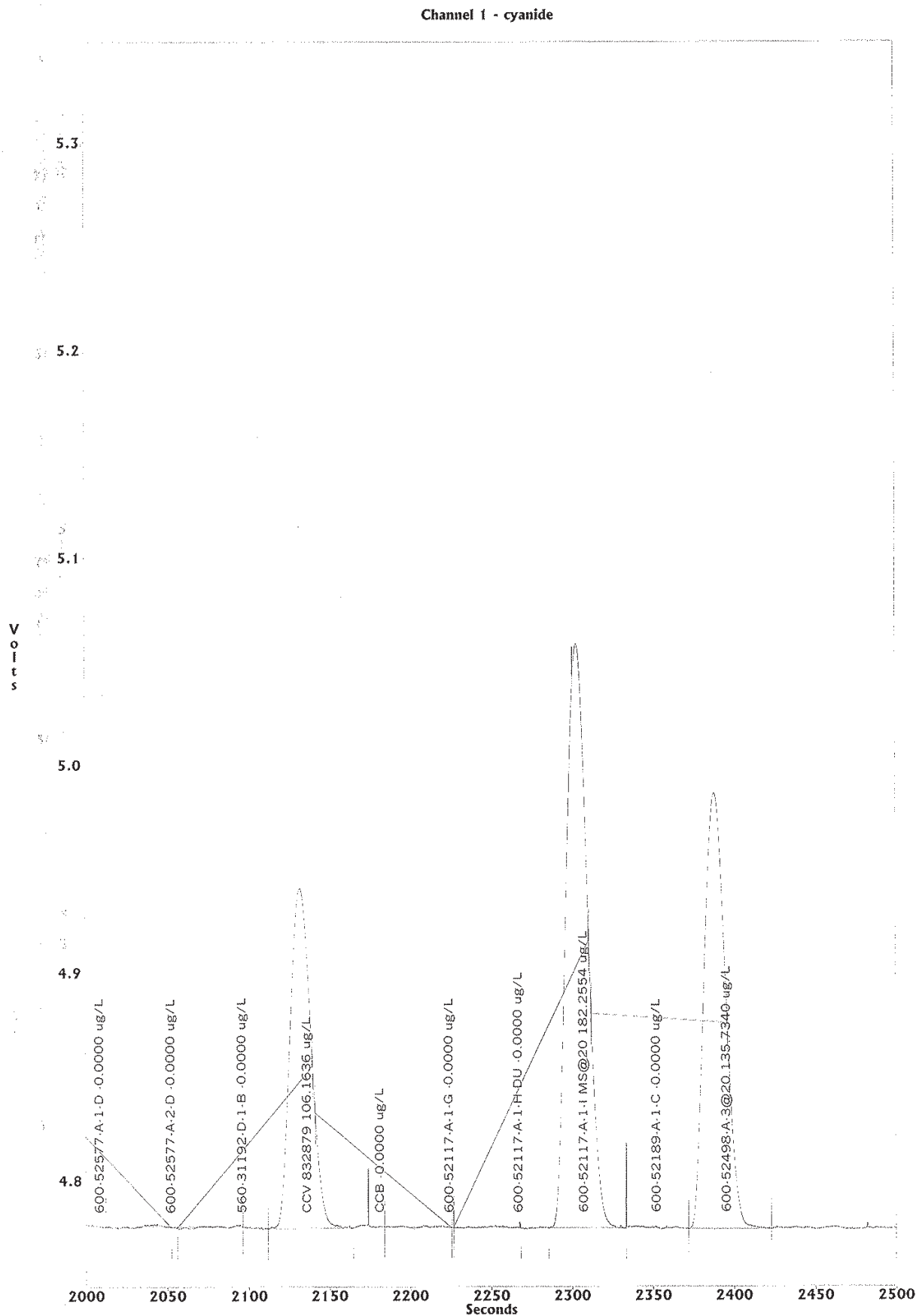


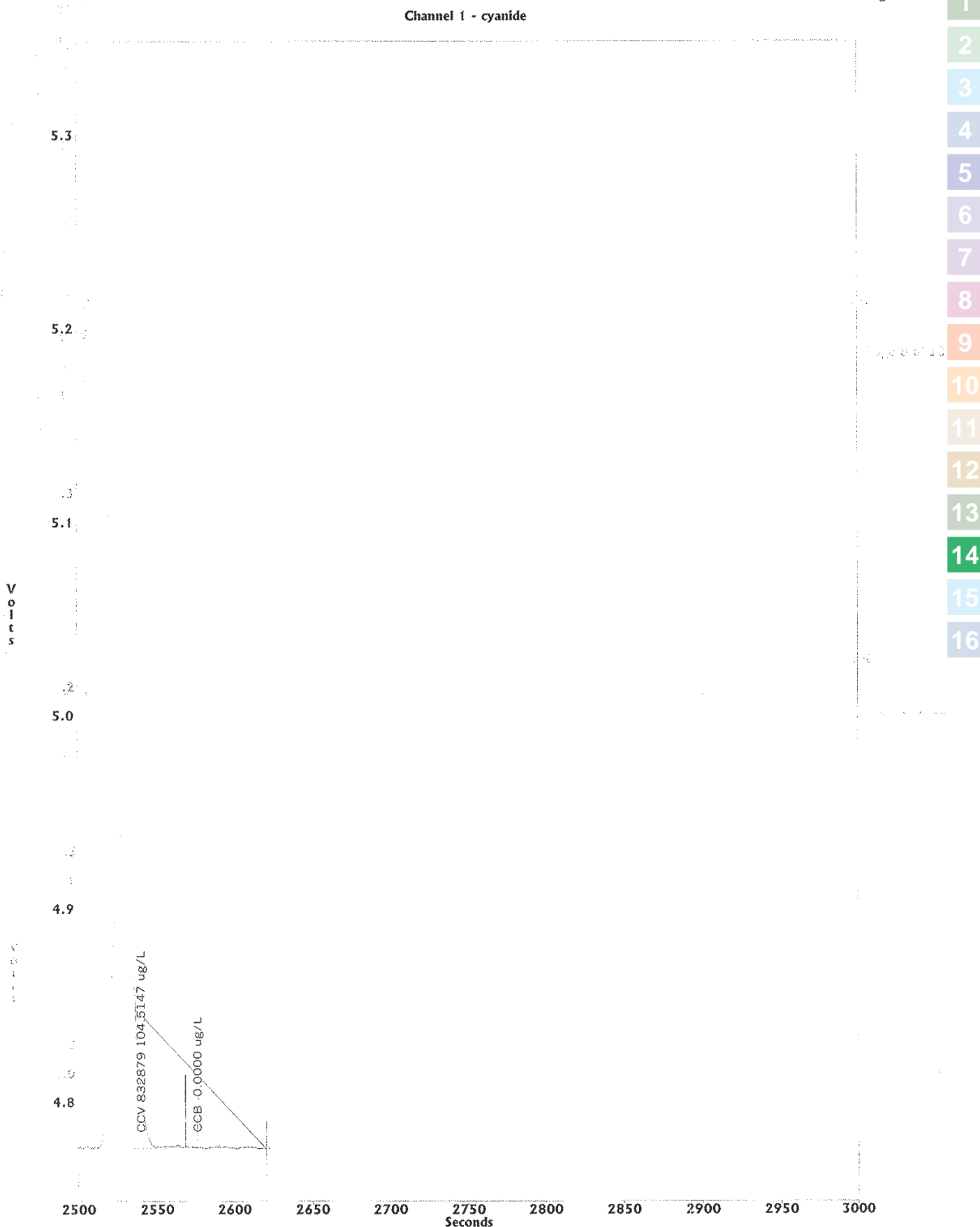
Channel 1 - cyanide



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## TestAmerica HOUSTON

pH / Corrosivity

EPA 150.1, SW-846 9040B &amp; 9045C, SM 4500-H + B

Date/Time: 3/26/12 0920 Analyst: MB Slope: 96.67 Balance ID: B2Buffer ID: 4.00: 581321 7.00: 697130 10.00: 633478 LCS/ICV/CCV ID: 6328131.00: 651512 , 13.00: 586735 Batch #: 75619

Sample ID	Initial Reading (std. units)	Temp. (°C)	Comments
Calibrate 4.00	4.00	21.8	
Calibrate 7.00	7.00	21.9	
Calibrate 10.00	10.00	22.1	
LCS/ICV	6.98	21.3	TV= <u>7.00</u> std. units
52223 - A1	6.89	21.5	WATER
Duplicate ↓ A1	6.89	21.5	
52224 A1	7.52	21.4	
52225 A1	8.01	21.6	
52256 H1	8.04	21.8	
52256 G2	7.28	21.7	
52381 A1	7.44	21.6	
↓ A2	7.34	21.7	
↓ A3	7.40	21.8	
52380 A1	7.53	21.8	
52386 B1	7.48	21.7	
CCV	7.03	21.9	TV= <u>7.00</u> std. units
52486 A1	7.72	21.8	WATER
Duplicate ↓ A1	7.72	21.8	
52448 B1	7.44	22.0	
51958 A1	7.42	22.2	
↓ A2	7.37	21.9	
↓ A3	7.87	21.9	
52027 A2	6.91	21.8	
↓ A1	4.48	22.3	
52508 B1	7.34	21.7	
52117 A1	7.47	24.0	
52505 A1	5.61	21.9	
CCV	7.01	22.1	TV= <u>7.00</u> std. Units

NOTE: For meter calibration, buffer readings should be within 0.05 pH units of the buffer solution value. For analysis, initial and duplicate sample readings should be within 0.1 pH units.

Reviewed By: MB Date: 3/26/12

SCANNED

Page 44 of 50

WET115 Rev. 31 8/11

WET 1621



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**TESTAMERICA HOUSTON**  
Flashpoint / Ignitability by Closed or Open Cup

Date/Time: 3/22/12 16:00 Analyst: SP  
 Thermometer ID: 540  
 LCS True Value: 81 LCS ID: 570596

Barometric Reading (mm Hg): 757  
 Batch #: 75477  
 (closed cup) (open cup)

Bottle ID	Sample ID	Thermometer Temp. (°F)	Corrected Temp. (°F)	Comment (Note Procedure Used)
	MB	>186	>186	
	LCS	82.0	82.18	
823174	52117-A1	>186	>186	1010
	DU	>186	>186	
824068	52189-A1	>186	>186	
825239	52256-I1	>186	>186	
↓ 249	H2	>186	>186	
827721	52399-A1	>186	>186	
	CCV	82.0	82.18	
<div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border: 1px solid black; transform: rotate(-45deg); transform-origin: center;"> <span style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em;">SP 3/22/12</span> </div>				

**Flashpoint Barometric Pressure Correction Formula:**

Corrected Flashpoint = F + 0.06 (760-P)

Where: F = Observed Flashpoint Temperature (°F)  
 P = Ambient Barometric Pressure (mm Hg)

Reviewed By: AN Date: 3/23/12  
 Page 89 of 101

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 75813 Batch Start Date: 03/27/12 17:00 Batch Analyst: Sineva, Ekaterina  
 Batch Method: 7.3.4 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	SULFTSLCS 00491	WETRCYANID 00016
MB 600-75813/1		7.3.4, 9012		10 g	250 mL		
LCS 600-75813/2		7.3.4, 9012		10 g	250 mL	10 mL	10 mL

Batch Notes

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Basis	Basis Description



- 1
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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 75826 Batch Start Date: 03/28/12 09:29 Batch Analyst: Walker, Gerald (Gerry) C  
 Batch Method: 7.3.4 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount
600-52117-A-1	IDW 3	7.3.4, 9012	T	10 g	250 mL
600-52117-A-1	IDW 3	7.3.4, 9012	T	10 g	250 mL
DU					
600-52117-A-1	IDW 3	7.3.4, 9012	T	10 g	250 mL
MS					

Batch Notes

Basis	Basis Description
T	Total/NA

- 1
- 2
- 3
- 4
- 5
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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 75896 Batch Start Date: 03/28/12 16:25 Batch Analyst: Walker, Gerald (Gerry) C  
 Batch Method: 9012 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WETPCYANID 00016
MB 600-75813/1-A		9012		5 mL	5 mL	
LCS 600-75813/2-A		9012		5 mL	5 mL	10 mL
600-52117-A-1-G	IDW 3	9012	T	5 mL	5 mL	
600-52117-A-1-H	IDW 3	9012	T	5 mL	5 mL	
DU 600-52117-A-1-I	IDW 3	9012	T	5 mL	5 mL	10 mL
MS						

Batch Notes	

Basis	Basis Description
T	Total/NA

- 1
- 2
- 3
- 4
- 5
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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 77259 Batch Start Date: 04/16/12 13:19 Batch Analyst: Stephney, Amy  
 Batch Method: 7.3.4 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	SULFTSLCS 00506	WETRCYANID 00016
MB 600-77259/1		7.3.4, 7.4.4		10 mL	250 mL		
LCS 600-77259/2		7.3.4, 7.4.4		10 mL	250 mL	10 mL	10 mL
600-52117-A-1	IDW 3	7.3.4, 7.4.4	T	10 mL	250 mL		
600-52117-A-1	IDW 3	7.3.4, 7.4.4	T	10 mL	250 mL	10 mL	
MS							

Batch Notes	

Basis	Basis Description
T	Total/NA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
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- 11
- 12
- 13
- 14
- 15
- 16

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 77293 Batch Start Date: 04/16/12 16:36 Batch Analyst: Sineva, Ekaterina  
 Batch Method: 7.4.4 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount
MB 600-77259/1-A		7.4.4		100 mL	100 mL
LCS 600-77259/2-A		7.4.4		100 mL	100 mL
600-52117-A-1-J	IDW 3	7.4.4	T	100 mL	100 mL
600-52117-A-1-K	IDW 3	7.4.4	T	100 mL	100 mL
MS					

Batch Notes	

Basis	Basis Description
T	Total/NA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
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- 11
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- 15
- 16

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 75619 Batch Start Date: 03/26/12 09:20 Batch Analyst: Boza, Michael  
 Batch Method: 9040B Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	SampleTemp	pHread1	CalcMsg	WETRP7BUF 00015
LCS 600-75619/1		9040B		50 mL	21.3 Celsius	6.98 SU	pH = Read 1	50 mL
CCV 600-75619/13		9040B		50 mL	21.9 Celsius	7.03 SU	pH = Read 1	50 mL
600-52117-A-1	IDW 3	9040B	T	50 mL	24.0 Celsius	7.47 SU	pH = Read 1	
CCV 600-75619/25		9040B		50 mL	22.1 Celsius	7.01 SU	pH = Read 1	50 mL

Batch Notes	

Basis	Basis Description
T	Total/NA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
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- 10
- 11
- 12
- 13
- 14
- 15
- 16

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Houston Job No.: 600-52117-1  
 SDG No.: \_\_\_\_\_  
 Batch Number: 75477 Batch Start Date: 03/22/12 16:00 Batch Analyst: Puranik, Surendra U  
 Batch Method: SW846 Ch. 7 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	WETRPXYLEN 00005		
ICS 600-75477/2		SW846 Ch. 7		60 mL	60 mL		
CCV 600-75477/9		SW846 Ch. 7		60 mL	60 mL		

Batch Notes

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Basis	Basis Description



## Login Sample Receipt Checklist

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-52117-1

Login Number: 52117

List Number: 1

Creator: Trenergy, Michael J

List Source: TestAmerica Houston

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	





## ANALYTICAL REPORT

Job Number: 600-49143-1

Job Description: Exide Recycling Center, Frisco TX Projec

For:

Pastor, Behling & Wheeler LLC

2201 Double Creek Dr

Suite 4004

Round Rock, TX 78664

Attention: Mr. Chris Moore

Approved for release.  
Cathy L Upton  
LAN Analyst  
3/2/2012 2:04 PM

---

Designee for  
Sachin G Kudchadkar  
Project Manager II  
sachin.kudchadkar@testamericainc.com  
03/02/2012

cc: Jennifer Bush  
Ms. Taryn Scholz

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-09A-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

**TestAmerica Laboratories, Inc.**

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# Table of Contents

Cover Title Page .....	1
TRRP Checklist .....	3
Method Summary .....	28
Method / Analyst Summary .....	30
Sample Summary .....	31
Sample Results .....	32
Sample Datasheets .....	33
Data Qualifiers .....	46
QC Results .....	47
Qc Association Summary .....	48
Surrogate Recovery Report .....	53
Qc Reports .....	55
Raw Data .....	70
Client Chain of Custody .....	678
Sample Receipt Checklist .....	679



## TestAmerica Houston TRRP Data Package Cover Page

Job Number: 600-49143-1  
 Project Name/Number: Exide Recycling Center, Frisco TX

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- R1 Field Chain-of-Custody Form
- R2 Sample Identification Cross-reference;
- R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test Reports/Summary Forms for Blank Samples;
- R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton

Name (printed)

Data Delivery Analyst

Official Title (printed)

Signature

03/02/2012

Date

<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>						
Laboratory Name: TestAmerica-Houston				LRC Date: 03/02/12		
Project Name: Exide Recycling Center, Frisco TX				Laboratory Job Number: 600-49143		
Reviewer Name: BDG				Prep Batch Number(s): 600-70933, 70973- Ignitability (Flashpoint)		
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup> ER# <sup>5</sup>
R1	OI	<b>Chain-of-custody (C-O-C)</b>				
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X			
		Were all departures from standard conditions described in an exception report?			X	
R2	OI	<b>Sample and quality control (QC) identification</b>				
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X			
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X			
R3	OI	<b>Test reports</b>				
		Were all samples prepared and analyzed within holding times?	X			
		Other than those results < MQL, were all other raw values bracketed by calibration standards?			X	
		Were calculations checked by a peer or supervisor?	X			
		Were all analyte identifications checked by a peer or supervisor?	X			
		Were sample detection limits reported for all analytes not detected?			X	
		Were all results for soil and sediment samples reported on a dry weight basis?			X	
		Were % moisture (or solids) reported for all soil and sediment samples?	X			
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X	
		If required for the project, TICs reported?			X	
R4	O	<b>Surrogate recovery data</b>				
		Were surrogates added prior to extraction?			X	
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X	
R5	OI	<b>Test reports/summary forms for blank samples</b>				
		Were appropriate type(s) of blanks analyzed?	X			
		Were blanks analyzed at the appropriate frequency?	X			
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X			
		Were blank concentrations < MQL?			X	
R6	OI	<b>Laboratory control samples (LCS):</b>				
		Were all COCs included in the LCS?	X			
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X			
		Were LCSs analyzed at the required frequency?	X			
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X			
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?			X	
R7	OI	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>				
		Were the project/method specified analytes included in the MS and MSD?			X	
		Were MS/MSD analyzed at the appropriate frequency?			X	
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X	
		Were MS/MSD RPDs within laboratory QC limits?			X	
R8	OI	<b>Analytical duplicate data</b>				
		Were appropriate analytical duplicates analyzed for each matrix?	X			
		Were analytical duplicates analyzed at the appropriate frequency?	X			
		Were RPDs or relative standard deviations within the laboratory QC limits?	X			
R9	OI	<b>Method quantitation limits (MQLs):</b>				
		Are the MQLs for each method analyte included in the laboratory data package?			X	
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?			X	
		Are unadjusted MQLs and DCSs included in the laboratory data package?			X	
R10	OI	<b>Other problems/anomalies</b>				
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X			
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X			
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X			

- Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
- NA = Not applicable;
- NR = Not reviewed;
- ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston			LRC Date: 03/02/12				
Project Name: Exide Recycling Center, Frisco TX			Laboratory Job Number: 600-49143				
Reviewer Name: BDG			Prep Batch Number(s): 600-70933, 70973- Ignitability (Flashpoint)				
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>S1</b>	<b>OI</b>	<b>Initial calibration (ICAL)</b>					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?			X		
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?			X		
		Has the initial calibration curve been verified using an appropriate second source standard?			X		
<b>S2</b>	<b>OI</b>	<b>Initial and continuing calibration verification (ICCV and CCV) and continuing calibration</b>					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?			X		
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
<b>S3</b>	<b>O</b>	<b>Mass spectral tuning:</b>					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
<b>S4</b>	<b>O</b>	<b>Internal standards (IS):</b>					
		Were IS area counts and retention times within the method-required QC limits?			X		
<b>S5</b>	<b>OI</b>	<b>Raw data (NELAC section 5.5.10)</b>					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
<b>S6</b>	<b>O</b>	<b>Dual column confirmation</b>					
		Did dual column confirmation results meet the method-required QC?			X		
<b>S7</b>	<b>O</b>	<b>Tentatively identified compounds (TICs):</b>					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
<b>S8</b>	<b>I</b>	<b>Interference Check Sample (ICS) results:</b>					
		Were percent recoveries within method QC limits?			X		
<b>S9</b>	<b>I</b>	<b>Serial dilutions, post digestion spikes, and method of standard additions</b>					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
<b>S10</b>	<b>OI</b>	<b>Method detection limit (MDL) studies</b>					
		Was a MDL study performed for each reported analyte?			X		
		Is the MDL either adjusted or supported by the analysis of DCSs?			X		
<b>S11</b>	<b>OI</b>	<b>Proficiency test reports:</b>					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
<b>S12</b>	<b>OI</b>	<b>Standards documentation</b>					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
<b>S13</b>	<b>OI</b>	<b>Compound/analyte identification procedures</b>					
		Are the procedures for compound/analyte identification documented?	X				
<b>S14</b>	<b>OI</b>	<b>Demonstration of analyst competency (DOC)</b>					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
<b>S15</b>	<b>OI</b>	<b>Verification/validation documentation for methods (NELAC Chapter 5)</b>					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
<b>S16</b>	<b>OI</b>	<b>Laboratory standard operating procedures (SOPs):</b>					
		Are laboratory SOPs current and on file for each method performed?	X				

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s).  
Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- 3 NA = Not applicable.
- 4 NR = Not Reviewed.
- 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

<b>Appendix A (cont'd): Laboratory Review Checklist: Exception Reports</b>	
Laboratory Name: TestAmerica-Houston	LRC Date: 03/02/12
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-49143
Reviewer Name: BDG	Prep Batch Number(s): 600-70933, 70973- Ignitability (Flashpoint)
<b>ER #<sup>1</sup></b>	<b>DESCRIPTION</b>

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston				LRC Date: 02/09/12			
Project Name: Exide Recycling Center, Frisco TX				Laboratory Job Number: 600-49143			
Reviewer Name: BDG				Prep Batch Number(s): 71179 & 71295 - pH			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
R1	OI	<b>Chain-of-custody (C-O-C)</b>					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	<b>Sample and quality control (QC) identification</b>					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	<b>Test reports</b>					
		Were all samples prepared and analyzed within holding times?		X			1
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	<b>Surrogate recovery data</b>					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	<b>Test reports/summary forms for blank samples</b>					
		Were appropriate type(s) of blanks analyzed?			X		
		Were blanks analyzed at the appropriate frequency?			X		
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?			X		
		Were blank concentrations < MQL?			X		
R6	OI	<b>Laboratory control samples (LCS):</b>					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?			X		
R7	OI	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	<b>Analytical duplicate data</b>					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	<b>Method quantitation limits (MQLs):</b>					
		Are the MQLs for each method analyte included in the laboratory data package?			X		
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?			X		
		Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	<b>Other problems/anomalies</b>					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

- Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
- NA = Not applicable;
- NR = Not reviewed;
- ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).



<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston				LRC Date: 02/09/12			
Project Name: Exide Recycling Center, Frisco TX				Laboratory Job Number: 600-49143			
Reviewer Name: BDG				Prep Batch Number(s): 71179 & 71295 - pH			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>S1</b>	<b>OI</b>	<b>Initial calibration (ICAL)</b>					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
<b>S2</b>	<b>OI</b>	<b>Initial and continuing calibration verification (ICCV and CCV) and continuing calibration</b>					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
<b>S3</b>	<b>O</b>	<b>Mass spectral tuning:</b>					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
<b>S4</b>	<b>O</b>	<b>Internal standards (IS):</b>					
		Were IS area counts and retention times within the method-required QC limits?			X		
<b>S5</b>	<b>OI</b>	<b>Raw data (NELAC section 5.5.10)</b>					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
<b>S6</b>	<b>O</b>	<b>Dual column confirmation</b>					
		Did dual column confirmation results meet the method-required QC?			X		
<b>S7</b>	<b>O</b>	<b>Tentatively identified compounds (TICs):</b>					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
<b>S8</b>	<b>I</b>	<b>Interference Check Sample (ICS) results:</b>					
		Were percent recoveries within method QC limits?			X		
<b>S9</b>	<b>I</b>	<b>Serial dilutions, post digestion spikes, and method of standard additions</b>					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
<b>S10</b>	<b>OI</b>	<b>Method detection limit (MDL) studies</b>					
		Was a MDL study performed for each reported analyte?			X		
		Is the MDL either adjusted or supported by the analysis of DCSs?			X		
<b>S11</b>	<b>OI</b>	<b>Proficiency test reports:</b>					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
<b>S12</b>	<b>OI</b>	<b>Standards documentation</b>					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
<b>S13</b>	<b>OI</b>	<b>Compound/analyte identification procedures</b>					
		Are the procedures for compound/analyte identification documented?	X				
<b>S14</b>	<b>OI</b>	<b>Demonstration of analyst competency (DOC)</b>					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
<b>S15</b>	<b>OI</b>	<b>Verification/validation documentation for methods (NELAC Chapter 5)</b>					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
<b>S16</b>	<b>OI</b>	<b>Laboratory standard operating procedures (SOPs):</b>					
		Are laboratory SOPs current and on file for each method performed?	X				

- Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- NA = Not applicable.
- NR = Not Reviewed.
- ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).



<b>Appendix A (cont'd): Laboratory Review Checklist: Exception Reports</b>	
Laboratory Name: TestAmerica-Houston	LRC Date: 02/09/12
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-49143
Reviewer Name: BDG	Prep Batch Number(s): 71179 & 71295 - pH
<b>ER #<sup>1</sup></b>	<b>DESCRIPTION</b>
1	The EPA has clarified that the Analyzed Immediately holding time is fifteen minutes from sample collection time. As a result, the holding times for pH had already expired by the time the samples arrived at our laboratory.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston				LRC Date: 03/02/2012			
Project Name: Exide Recycling Center, Frisco TX				Laboratory Job Number: 600-49143			
Reviewer Name: BDG				Prep Batch Number(s): 600-71253-Reactivity, CN and SFD			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
R1	OI	<b>Chain-of-custody (C-O-C)</b>					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	<b>Sample and quality control (QC) identification</b>					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	<b>Test reports</b>					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?			X		
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?			X		
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	<b>Surrogate recovery data</b>					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	<b>Test reports/summary forms for blank samples</b>					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?			X		
R6	OI	<b>Laboratory control samples (LCS):</b>					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?			X		
R7	OI	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	<b>Analytical duplicate data</b>					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	<b>Method quantitation limits (MQLs):</b>					
		Are the MQLs for each method analyte included in the laboratory data package?			X		
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?			X		
		Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	<b>Other problems/anomalies</b>					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

3. NA = Not applicable;

4. NR = Not reviewed;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston			LRC Date: 03/02/2012				
Project Name: Exide Recycling Center, Frisco TX			Laboratory Job Number: 600-49143				
Reviewer Name: BDG			Prep Batch Number(s): 600-71253-Reactivity, CN and SFD				
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>S1</b>	<b>OI</b>	<b>Initial calibration (ICAL)</b>					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?			X		
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?			X		
		Has the initial calibration curve been verified using an appropriate second source standard?			X		
<b>S2</b>	<b>OI</b>	<b>Initial and continuing calibration verification (ICCV and CCV) and continuing calibration</b>					
		Was the CCV analyzed at the method-required frequency?			X		
		Were percent differences for each analyte within the method-required QC limits?			X		
		Was the ICAL curve verified for each analyte?			X		
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
<b>S3</b>	<b>O</b>	<b>Mass spectral tuning:</b>					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
<b>S4</b>	<b>O</b>	<b>Internal standards (IS):</b>					
		Were IS area counts and retention times within the method-required QC limits?			X		
<b>S5</b>	<b>OI</b>	<b>Raw data (NELAC section 5.5.10)</b>					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
<b>S6</b>	<b>O</b>	<b>Dual column confirmation</b>					
		Did dual column confirmation results meet the method-required QC?			X		
<b>S7</b>	<b>O</b>	<b>Tentatively identified compounds (TICs):</b>					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
<b>S8</b>	<b>I</b>	<b>Interference Check Sample (ICS) results:</b>					
		Were percent recoveries within method QC limits?			X		
<b>S9</b>	<b>I</b>	<b>Serial dilutions, post digestion spikes, and method of standard additions</b>					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
<b>S10</b>	<b>OI</b>	<b>Method detection limit (MDL) studies</b>					
		Was a MDL study performed for each reported analyte?			X		
		Is the MDL either adjusted or supported by the analysis of DCSs?			X		
<b>S11</b>	<b>OI</b>	<b>Proficiency test reports:</b>					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
<b>S12</b>	<b>OI</b>	<b>Standards documentation</b>					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
<b>S13</b>	<b>OI</b>	<b>Compound/analyte identification procedures</b>					
		Are the procedures for compound/analyte identification documented?	X				
<b>S14</b>	<b>OI</b>	<b>Demonstration of analyst competency (DOC)</b>					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
<b>S15</b>	<b>OI</b>	<b>Verification/validation documentation for methods (NELAC Chapter 5)</b>					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
<b>S16</b>	<b>OI</b>	<b>Laboratory standard operating procedures (SOPs):</b>					
		Are laboratory SOPs current and on file for each method performed?	X				

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s).  
Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- 3 NA = Not applicable.
- 4 NR = Not Reviewed.
- 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

**Appendix A (cont'd): Laboratory Review Checklist: Exception Reports**

Laboratory Name: TestAmerica-Houston		LRC Date: 03/02/2012	
Project Name: Exide Recycling Center, Frisco TX		Laboratory Job Number: 600-49143	
Reviewer Name: BDG		Prep Batch Number(s): 600-71253-Reactivity, CN and SFD	
<b>ER #<sup>1</sup></b>	<b>DESCRIPTION</b>		
1	The laboratory selected another client's sample to perform as the MS.		
2	The laboratory selected another client's sample to perform as the DUP.		

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>						
Laboratory Name: TestAmerica-Houston			LRC Date: 02/09/12			
Project Name: Exide Recycling Center, Frisco TX			Laboratory Job Number: 600-49143			
Reviewer Name: TWR			Prep Batch Number(s): 600-70836(TCLP), 70604(water), 71001(soil)- ICP			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup> ER# <sup>5</sup>
R1	OI	<b>Chain-of-custody (C-O-C)</b>				
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X			
		Were all departures from standard conditions described in an exception report?			X	
R2	OI	<b>Sample and quality control (QC) identification</b>				
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X			
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X			
R3	OI	<b>Test reports</b>				
		Were all samples prepared and analyzed within holding times?	X			
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X			
		Were calculations checked by a peer or supervisor?	X			
		Were all analyte identifications checked by a peer or supervisor?	X			
		Were sample detection limits reported for all analytes not detected?	X			
		Were all results for soil and sediment samples reported on a dry weight basis?	X			
		Were % moisture (or solids) reported for all soil and sediment samples?	X			
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X	
		If required for the project, TICs reported?			X	
R4	O	<b>Surrogate recovery data</b>				
		Were surrogates added prior to extraction?			X	
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X	
R5	OI	<b>Test reports/summary forms for blank samples</b>				
		Were appropriate type(s) of blanks analyzed?	X			
		Were blanks analyzed at the appropriate frequency?	X			
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X			
		Were blank concentrations < MQL?	X			1
R6	OI	<b>Laboratory control samples (LCS):</b>				
		Were all COCs included in the LCS?	X			
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X			
		Were LCSs analyzed at the required frequency?	X			
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X			
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X			
R7	OI	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>				
		Were the project/method specified analytes included in the MS and MSD?	X			
		Were MS/MSD analyzed at the appropriate frequency?	X			
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X		2
		Were MS/MSD RPDs within laboratory QC limits?		X		3
R8	OI	<b>Analytical duplicate data</b>				
		Were appropriate analytical duplicates analyzed for each matrix?	X			
		Were analytical duplicates analyzed at the appropriate frequency?	X			
		Were RPDs or relative standard deviations within the laboratory QC limits?	X			
R9	OI	<b>Method quantitation limits (MQLs):</b>				
		Are the MQLs for each method analyte included in the laboratory data package?	X			
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X			
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X			
R10	OI	<b>Other problems/anomalies</b>				
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X			
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X			
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X			

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

3. NA = Not applicable;

4. NR = Not reviewed;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston			LRC Date: 02/09/12				
Project Name: Exide Recycling Center, Frisco TX			Laboratory Job Number: 600-49143				
Reviewer Name: TWR			Prep Batch Number(s): 600-70836(TCLP), 70604(water), 71001(soil)- ICP				
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>S1</b>	<b>OI</b>	<b>Initial calibration (ICAL)</b>					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?			X		
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?			X		
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
<b>S2</b>	<b>OI</b>	<b>Initial and continuing calibration verification (ICCV and CCV) and continuing calibration</b>					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?		X			4
<b>S3</b>	<b>O</b>	<b>Mass spectral tuning:</b>					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
<b>S4</b>	<b>O</b>	<b>Internal standards (IS):</b>					
		Were IS area counts and retention times within the method-required QC limits?			X		
<b>S5</b>	<b>OI</b>	<b>Raw data (NELAC section 5.5.10)</b>					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
<b>S6</b>	<b>O</b>	<b>Dual column confirmation</b>					
		Did dual column confirmation results meet the method-required QC?			X		
<b>S7</b>	<b>O</b>	<b>Tentatively identified compounds (TICs):</b>					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
<b>S8</b>	<b>I</b>	<b>Interference Check Sample (ICS) results:</b>					
		Were percent recoveries within method QC limits?	X				
<b>S9</b>	<b>I</b>	<b>Serial dilutions, post digestion spikes, and method of standard additions</b>					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			5
<b>S10</b>	<b>OI</b>	<b>Method detection limit (MDL) studies</b>					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
<b>S11</b>	<b>OI</b>	<b>Proficiency test reports:</b>					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
<b>S12</b>	<b>OI</b>	<b>Standards documentation</b>					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
<b>S13</b>	<b>OI</b>	<b>Compound/analyte identification procedures</b>					
		Are the procedures for compound/analyte identification documented?	X				
<b>S14</b>	<b>OI</b>	<b>Demonstration of analyst competency (DOC)</b>					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
<b>S15</b>	<b>OI</b>	<b>Verification/validation documentation for methods (NELAC Chapter 5)</b>					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
<b>S16</b>	<b>OI</b>	<b>Laboratory standard operating procedures (SOPs):</b>					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s).

Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

<b>Appendix A (cont'd): Laboratory Review Checklist: Exception Reports</b>	
Laboratory Name: TestAmerica-Houston	LRC Date: 02/09/12
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-49143
Reviewer Name: TWR	Prep Batch Number(s): 600-70836(TCLP), 70604(water), 71001(soil)- ICP
<b>ER #<sup>1</sup></b>	<b>DESCRIPTION</b>
1	Barium was detected above the MDL, but below the MQL in the leachate blank for batch 70806. The level of detection is below the recommended reporting limit and the appropriate flags have been applied.
2	The lead recovery in sample 49143-1 MS was above and in sample 49143-1 MSD was below acceptance limits due to matrix interference. Method performance is demonstrated by an acceptable LCS recovery.
3	The lead RPD between samples 49143-1 MS and MSD was above acceptance limits due to the non-homogenous nature of the samples.
4	Cadmium was detected above the MDL in the ICB for batch 70888. Cadmium was detected above the MDL in the CCB analyzed on 01/25/12 at 16:11. Since the concentrations were below the MQL, no corrective action was required.
5	The lead percent difference between samples 49143-1 and 49143-1 SD was above acceptance limits due to matrix interference.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)



<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston				LRC Date: 02/09/12			
Project Name: Exide Recycling Center, Frisco TX				Laboratory Job Number: 600-49143			
Reviewer Name: TWR				Prep Batch Number(s): 600-70863- Mercury			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
R1	OI	<b>Chain-of-custody (C-O-C)</b>					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	<b>Sample and quality control (QC) identification</b>					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	<b>Test reports</b>					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
R4	O	<b>Surrogate recovery data</b>					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	<b>Test reports/summary forms for blank samples</b>					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	<b>Laboratory control samples (LCS):</b>					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
R7	OI	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	<b>Analytical duplicate data</b>					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?				X	2
R9	OI	<b>Method quantitation limits (MQLs):</b>					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	<b>Other problems/anomalies</b>					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

3. NA = Not applicable;

4. NR = Not reviewed;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).



<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston				LRC Date: 02/09/12			
Project Name: Exide Recycling Center, Frisco TX				Laboratory Job Number: 600-49143			
Reviewer Name: TWR				Prep Batch Number(s): 600-70863- Mercury			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>S1</b>	<b>OI</b>	<b>Initial calibration (ICAL)</b>					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
<b>S2</b>	<b>OI</b>	<b>Initial and continuing calibration verification (ICCV and CCV) and continuing calibration</b>					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
<b>S3</b>	<b>O</b>	<b>Mass spectral tuning:</b>					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
<b>S4</b>	<b>O</b>	<b>Internal standards (IS):</b>					
		Were IS area counts and retention times within the method-required QC limits?			X		
<b>S5</b>	<b>OI</b>	<b>Raw data (NELAC section 5.5.10)</b>					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
<b>S6</b>	<b>O</b>	<b>Dual column confirmation</b>					
		Did dual column confirmation results meet the method-required QC?			X		
<b>S7</b>	<b>O</b>	<b>Tentatively identified compounds (TICs):</b>					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
<b>S8</b>	<b>I</b>	<b>Interference Check Sample (ICS) results:</b>					
		Were percent recoveries within method QC limits?			X		
<b>S9</b>	<b>I</b>	<b>Serial dilutions, post digestion spikes, and method of standard additions</b>					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?				X	3
<b>S10</b>	<b>OI</b>	<b>Method detection limit (MDL) studies</b>					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
<b>S11</b>	<b>OI</b>	<b>Proficiency test reports:</b>					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
<b>S12</b>	<b>OI</b>	<b>Standards documentation</b>					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
<b>S13</b>	<b>OI</b>	<b>Compound/analyte identification procedures</b>					
		Are the procedures for compound/analyte identification documented?	X				
<b>S14</b>	<b>OI</b>	<b>Demonstration of analyst competency (DOC)</b>					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
<b>S15</b>	<b>OI</b>	<b>Verification/validation documentation for methods (NELAC Chapter 5)</b>					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
<b>S16</b>	<b>OI</b>	<b>Laboratory standard operating procedures (SOPs):</b>					
		Are laboratory SOPs current and on file for each method performed?	X				

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s).  
Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- 3 NA = Not applicable.
- 4 NR = Not Reviewed.
- 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

**Appendix A (cont'd): Laboratory Review Checklist: Exception Reports**

Laboratory Name: TestAmerica-Houston		LRC Date: 02/09/12
Project Name: Exide Recycling Center, Frisco TX		Laboratory Job Number: 600-49143
Reviewer Name: TWR		Prep Batch Number(s): 600-70863- Mercury
<b>ER #<sup>1</sup></b>	<b>DESCRIPTION</b>	
1	The laboratory selected another client's sample to perform as the MS/MSD.	
2	The laboratory selected another client's sample to perform as the DUP.	
3	The laboratory selected another client's sample to perform as the PDS/SD.	

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>						
Laboratory Name: TestAmerica-Houston				LRC Date: 02/09/12		
Project Name: Exide Recycling Center, Frisco TX				Laboratory Job Number: 600-49143		
Reviewer Name: RJV				Prep Batch Number(s): 600-71005(W), 70966(S)- TX1005		
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup> ER# <sup>5</sup>
R1	OI	<b>Chain-of-custody (C-O-C)</b>				
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X			
		Were all departures from standard conditions described in an exception report?			X	
R2	OI	<b>Sample and quality control (QC) identification</b>				
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X			
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X			
R3	OI	<b>Test reports</b>				
		Were all samples prepared and analyzed within holding times?	X			
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X			
		Were calculations checked by a peer or supervisor?	X			
		Were all analyte identifications checked by a peer or supervisor?	X			
		Were sample detection limits reported for all analytes not detected?	X			
		Were all results for soil and sediment samples reported on a dry weight basis?	X			
		Were % moisture (or solids) reported for all soil and sediment samples?	X			
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X	
R4	O	<b>Surrogate recovery data</b>				
		Were surrogates added prior to extraction?	X			
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X			
R5	OI	<b>Test reports/summary forms for blank samples</b>				
		Were appropriate type(s) of blanks analyzed?	X			
		Were blanks analyzed at the appropriate frequency?	X			
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X			
R6	OI	<b>Laboratory control samples (LCS):</b>				
		Were all COCs included in the LCS?	X			
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X			
		Were LCSs analyzed at the required frequency?	X			
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X			
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X			
R7	OI	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>				
		Were the project/method specified analytes included in the MS and MSD?	X			
		Were MS/MSD analyzed at the appropriate frequency?	X			
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X			
		Were MS/MSD RPDs within laboratory QC limits?	X			
R8	OI	<b>Analytical duplicate data</b>				
		Were appropriate analytical duplicates analyzed for each matrix?			X	
		Were analytical duplicates analyzed at the appropriate frequency?			X	
R9	OI	<b>Method quantitation limits (MQLs):</b>				
		Were RPDs or relative standard deviations within the laboratory QC limits?			X	
		Are the MQLs for each method analyte included in the laboratory data package?	X			
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X			
R10	OI	<b>Other problems/anomalies</b>				
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X			
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X			
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X			

- Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
- NA = Not applicable;
- NR = Not reviewed;
- ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

<b>Appendix A (cont'd): Laboratory Review Checklist: Reportable Data</b>							
Laboratory Name: TestAmerica-Houston			LRC Date: 02/09/12				
Project Name: Exide Recycling Center, Frisco TX			Laboratory Job Number: 600-49143				
Reviewer Name: RJV			Prep Batch Number(s): 600-71005(W), 70966(S)- TX1005				
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>S1</b>	<b>OI</b>	<b>Initial calibration (ICAL)</b>					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
<b>S2</b>	<b>OI</b>	<b>Initial and continuing calibration verification (ICCV and CCV) and continuing calibration</b>					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?		X			1
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
<b>S3</b>	<b>O</b>	<b>Mass spectral tuning:</b>					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
<b>S4</b>	<b>O</b>	<b>Internal standards (IS):</b>					
		Were IS area counts and retention times within the method-required QC limits?			X		
<b>S5</b>	<b>OI</b>	<b>Raw data (NELAC section 5.5.10)</b>					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
<b>S6</b>	<b>O</b>	<b>Dual column confirmation</b>					
		Did dual column confirmation results meet the method-required QC?			X		
<b>S7</b>	<b>O</b>	<b>Tentatively identified compounds (TICs):</b>					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
<b>S8</b>	<b>I</b>	<b>Interference Check Sample (ICS) results:</b>					
		Were percent recoveries within method QC limits?			X		
<b>S9</b>	<b>I</b>	<b>Serial dilutions, post digestion spikes, and method of standard additions</b>					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
<b>S10</b>	<b>OI</b>	<b>Method detection limit (MDL) studies</b>					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
<b>S11</b>	<b>OI</b>	<b>Proficiency test reports:</b>					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
<b>S12</b>	<b>OI</b>	<b>Standards documentation</b>					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
<b>S13</b>	<b>OI</b>	<b>Compound/analyte identification procedures</b>					
		Are the procedures for compound/analyte identification documented?	X				
<b>S14</b>	<b>OI</b>	<b>Demonstration of analyst competency (DOC)</b>					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
<b>S15</b>	<b>OI</b>	<b>Verification/validation documentation for methods (NELAC Chapter 5)</b>					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
<b>S16</b>	<b>OI</b>	<b>Laboratory standard operating procedures (SOPs):</b>					
		Are laboratory SOPs current and on file for each method performed?	X				

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s).  
Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
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- 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

<b>Appendix A (cont'd): Laboratory Review Checklist: Exception Reports</b>	
Laboratory Name: TestAmerica-Houston	LRC Date: 02/09/12
Project Name: Exide Recycling Center, Frisco TX	Laboratory Job Number: 600-49143
Reviewer Name: RJV	Prep Batch Number(s): 600-71005(W), 70966(S)- TX1005
<b>ER #<sup>1</sup></b>	<b>DESCRIPTION</b>
1	The continuing calibration verification (CCV) analyzed on 01/28/12 at 02:38 for analytical batch 71145 exceeded control criteria for o-Terphenyl. The surrogate was biased high and bracketed sample 600-49143-6 only. The surrogate recovery in this sample was within acceptance limits; therefore, the data have been qualified and reported.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

**Detection Check Standard**

Matrix: Soil  
 Method: 6010B  
 Preparation: 3050  
 Date Analyzed: 12/30/2011  
 Date Prepared: 12/30/2011  
 Instrument: TJA1  
 TALS Batches: 69146  
 Prep/Reagent Factor = 50  
 Units: mg/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.299654	0.5	0.042	25
Antimony	0.231553	0.45	0.44	2.5
Arsenic	0.217923	0.5	0.264	1
Barium	0.011322	0.03	0.027	1
Beryllium	0.014513	0.02	0.025	0.25
Boron	0.385535	0.6	2.04	20
Cadmium	0.025642	0.05	0.061	0.25
Calcium	0.86399	1.5	2.78	100
Chromium	0.050606	0.1	0.111	0.5
Cobalt	0.067622	0.1	0.109	0.5
Copper	0.173703	0.5	0.524	0.5
Iron	2.534007	4	5.65	20
Lithium	0.007932	0.01	0.005	10
Lead	0.104832	0.2	0.004	0.5
Selenium	0.258884	0.5	0.008	2
Magnesium	1.9	3	2.66	100
Manganese	0.038111	0.05	0.052	1.5
Molybdenum	0.136448	0.35	0.404	0.5
Nickel	0.116599	0.15	0.227	1
Silver	0.118848	0.2	0.232	0.5
Sodium	0.885548	2.4	1.9	100
Strontium	0.00252	0.005	0.921	0.25
Thallium	0.276988	0.7	0.794	1.5
Tin	0.08729	0.15	0.292	1
Titanium	0.014529	0.03	0.04	0.5
Vanadium	0.079068	0.15	0.148	0.5
Zinc	0.108432	0.2	0.315	1.5

**Detection Check Standard**

Matrix: Water  
 Method: 200.7/6010  
 Preparation: 200.7P/3010  
 Date Analyzed: 12/29/2011  
 Date Prepared: 12/29/2011  
 Instrument: TJA1  
 TALs Batches: 69146  
 Units: mg/L

Analyte	MDL	DCS Spike	Measured Result	MQL
Aluminum	0.006	0.02	0.022	0.5
Antimony	0.0063	0.01	0.006	0.05
Arsenic	0.0033	0.01	0.0004	0.01
Barium	0.0022	0.005	0.003	0.02
Beryllium	0.00134	0.002	0.002	0.005
Boron	0.0077	0.02	0.036	0.2
Cadmium	0.00073	0.001	0.001	0.005
Calcium	0.022	0.05	0.642	1
Chromium	0.0016	0.002	0.003	0.01
Cobalt	0.00063	0.001	0.0004	0.01
Copper	0.0014	0.002	0.002	0.01
Iron	0.087	0.1	0.054	0.4
Lithium	0.0024	0.005	0.002	0.2
Lead	0.0029	0.005	0.003	0.01
Selenium	0.0042	0.01	0.006	0.04
Manganese	0.00084	0.002	0.001	0.01
Molybdenum	0.0027	0.005	0.003	0.01
Nickel	0.00179	0.005	0.003	0.01
Silver	0.0012	0.0025	0.001	0.01
Sodium	0.02	0.05	0.033	1
Strontium	0.0005	0.001	0.001	0.005
Thallium	0.0078	0.02	0.011	0.03
Tin	0.0028	0.005	0.003	0.01
Titanium	0.0011	0.002	0.001	0.01
Vanadium	0.0017	0.002	0.003	0.01
Zinc	0.0022	0.005	0.007	0.01

**Detection Check Standard**

Matrix: Water  
Method: 7470, 245.1  
Preparation: 7470p, 245.1p  
Date Analyzed: 12/29/2011  
Date Prepared: 12/29/2011  
Instrument: FIMS100  
TALs Batches: 69113  
Units: ug/L

Analyte	MDL	DCS Spike	Measured Result	ML
Mercury	0.026	0.0625	0.049164	0.2



**Detection Check Standard**

Matrix: Soil  
Method: 7471  
Preparation: 7471p  
Date Analyzed: 12/29/2011  
Date Prepared: 12/29/2011  
Instrument: FIMS100  
TALS Batches: 69103  
Prep/Reagent Factor = 83.33  
Units: ug/kg

Analyte	MDL	DCS Spike	Measured Result	ML
Mercury	1.67	2.29	1.59	50

**Detection Check Standard**

Matrix: Soil  
Method: TX1005  
Preparation: Robin  
Date Analyzed: 11/8/2011  
Date Prepared: 11/8/2011  
Data File: BO80211\_034.d  
Units: mg/kg

Analyte	MDL	DCS Spike	Measured Result	ML
C6-C12	4.67	10	12.86	25
>C12-C28	6.06	10	9.43	25
Total C6-C35	9.59	20	22.28	25

**Detection Check Standard**

Matrix: Water  
Method: TX1005  
Preparation: Robin  
Date Analyzed: 11/8/2011  
Date Prepared: 11/8/2011  
Data File: B080211\_034.d  
Units: mg/L

Analyte	MDL	DCS Spike	Measured Result	ML
C6-C12	0.37	5	4.97	5
>C12-C28	0.32	5	5.16	5
Total C6-C35	0.56	10	10.13	5

## METHOD SUMMARY

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
Texas - Total Petroleum Hydrocarbon (GC)	TAL HOU	TCEQ TX 1005	
Extraction - Texas Total petroleum Hyrdocarbons	TAL HOU		TCEQ TX_1005_S_Prep
Metals (ICP)	TAL HOU	SW846 6010B	
Preparation, Metals	TAL HOU		SW846 3050B
Metals (ICP)	TAL HOU	SW846 6010B	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Total Metals	TAL HOU		SW846 3010A
Mercury (CVAA)	TAL HOU	SW846 7470A	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Mercury	TAL HOU		SW846 7470A
Reactive Sulfide	TAL HOU	EPA 7.4.4	
Sulfide, Reactive	TAL HOU		SW846 7.3.4
Cyanide, Reactive	TAL HOU	SW846 9012	
Cyanide, Reactive	TAL HOU		SW846 7.3.3
Corrosivity	TAL HOU	SW846 9045C	
Flashpoint	TAL HOU	ASTM D92	
Percent Moisture	TAL HOU	EPA Moisture	
<b>Matrix: Water</b>			
Texas - Total Petroleum Hydrocarbon (GC)	TAL HOU	TCEQ TX 1005	
Extraction - Texas Total petroleum Hyrdocarbons	TAL HOU		TCEQ TX_1005_W_Prep
Metals (ICP)	TAL HOU	SW846 6010B	
Preparation, Total Metals	TAL HOU		SW846 3010A
Metals (ICP)	TAL HOU	SW846 6010B	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Total Metals	TAL HOU		SW846 3010A
Mercury (CVAA)	TAL HOU	SW846 7470A	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Mercury	TAL HOU		SW846 7470A
Reactive Sulfide	TAL HOU	EPA 7.4.4	
Sulfide, Reactive	TAL HOU		SW846 7.3.4
Cyanide, Reactive	TAL HOU	SW846 9012	
Cyanide, Reactive	TAL HOU		SW846 7.3.3
Corrosivity as pH	TAL HOU	SW846 9040B	
Ignitability	TAL HOU	SW846 SW846 Ch. 7	

**Lab References:**

TAL HOU = TestAmerica Houston

**METHOD SUMMARY**

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

<b>Description</b>	<b>Lab Location</b>	<b>Method</b>	<b>Preparation Method</b>
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**Method References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ = Texas Commission of Environmental Quality

**METHOD / ANALYST SUMMARY**

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
TCEQ TX 1005	Vanderborgh, Raymond	RV
SW846 6010B	Lige, Derrick C	DCL
SW846 6010B	Patel, Silen R	SRP
SW846 7470A	Lige, Derrick C	DCL
EPA 7.4.4	Grimm, Brandon D	BDG
SW846 9012	Grimm, Brandon D	BDG
SW846 9040B	Boza, Michael	MB
SW846 9045C	Boza, Michael	MB
ASTM D92	Puranik, Surendra U	SUP
EPA Moisture	Puranik, Surendra U	SUP
SW846 SW846 Ch. 7	Puranik, Surendra U	SUP

**SAMPLE SUMMARY**

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
600-49143-1	2012-FWCS-7	Solid	01/19/2012 1110	01/20/2012 0937
600-49143-1MS	2012-FWCS-7	Solid	01/19/2012 1110	01/20/2012 0937
600-49143-1MSD	2012-FWCS-7	Solid	01/19/2012 1110	01/20/2012 0937
600-49143-2	2012-FWCS-6	Solid	01/19/2012 1040	01/20/2012 0937
600-49143-3	2012-FWCS-5	Solid	01/19/2012 1206	01/20/2012 0937
600-49143-4	2012-FWCS-4	Solid	01/19/2012 1231	01/20/2012 0937
600-49143-5	2012-FWCS-3	Solid	01/19/2012 1255	01/20/2012 0937
600-49143-6	2012-FWCS-2	Solid	01/19/2012 1319	01/20/2012 0937
600-49143-7	Field Blank 4	Water	01/19/2012 1445	01/20/2012 0937
600-49143-8	IDW 1	Solid	01/19/2012 1539	01/20/2012 0937
600-49143-9	IDW 2	Water	01/19/2012 1551	01/20/2012 0937
600-49143-10	Equipment Blank 8	Water	01/19/2012 1609	01/20/2012 0937
600-49143-11	Trip Blank 1/14/12	Water	01/14/2012 0000	01/20/2012 0937

# SAMPLE RESULTS



**Analytical Data**

Pastor, Behling & Wheeler LLC  
 ATTN: Mr. Chris Moore  
 Job Number: 600-49143-1  
 Project: Exide Recycling Center, Frisco TX Projec  
 SDG Number: Exide Recycling Center, Frisco TX Projec

**Client Sample ID:** 2012-FWCS-7

Lab Sample ID: 600-49143-1  
 Client Matrix: Solid

Date Sampled: 01/19/2012 11:10  
 Date Received: 01/20/2012 09:37

Test Method	CAS Number	Result	Q	Flag	MDL	MQL	SDL	Unit	Batch	Analysis Date/Time	D.F.	Analyst
<b>Method: SW846 3050B,Solid</b> Preparation, Metals		Complete							71001	01/26/2012 15:05		NER
<b>Method: TCEQ TX_1005_S_Prep,Solid</b> Extraction - Texas Total petroleum Hydrocarbons		Complete							70966	01/26/2012 11:36		NV
<b>Method: EPA Moisture,Solid</b> Percent Moisture	STL00177	30			1.0	1.0	1.0	%	70705	01/23/2012 17:19	1	SUP
Percent Solids	STL00234	70			1.0	1.0	1.0	%	70705	01/23/2012 17:19	1	SUP
<b>Method: SW846 6010B,Solid</b> Cadmium	7440-43-9	0.583			0.0256	0.250	0.0365	mg/Kg	71181	01/30/2012 13:32	1	SRP
Lead	7439-92-1	63.9			0.105	0.500	0.149	mg/Kg	71181	01/30/2012 13:32	1	SRP
<b>Method: TCEQ TX 1005,Solid</b> C6-C12	STL00061	6.66	U		4.67	25.0	6.66	mg/Kg	71169	01/27/2012 16:55	1	RV
>C12-C28	STL00035	8.64	U		6.06	25.0	8.64	mg/Kg	71169	01/27/2012 16:55	1	RV
>C28-C35	STL00147	13.7	U		9.59	25.0	13.7	mg/Kg	71169	01/27/2012 16:55	1	RV
C6-C35	STL00006	13.7	U		9.59	25.0	13.7	mg/Kg	71169	01/27/2012 16:55	1	RV
<b>Surrogates</b>												
Test Method	CAS Number	QC Type	Result	True Value	% Rec.	QC Limits	Flag	Instrument	Prep Batch	Analysis Date/Time	D.F.	Analyst
o-Terphenyl	84-15-1		15.9	17.8	89	70-130		FID07	70966	01/27/2012 16:55	1	RV

**Analytical Data**

Pastor, Behling & Wheeler LLC  
 ATTN: Mr. Chris Moore  
 Job Number: 600-49143-1  
 Project: Exide Recycling Center, Frisco TX Projec  
 SDG Number: Exide Recycling Center, Frisco TX Projec

**Client Sample ID:** 2012-FWCS-6

**Lab Sample ID:** 600-49143-2

**Client Matrix:** Solid

**Date Sampled:** 01/19/2012 10:40

**Date Received:** 01/20/2012 09:37

Test Method	CAS Number	Result	Q	Flag	MDL	MQL	SDL	Unit	Batch	Analysis Date/Time	D.F.	Analyst
<b>Method:</b> SW846 3050B,Solid Preparation, Metals		Complete							71001	01/26/2012 15:05		NER
<b>Method:</b> TCEQ TX_1005_S_Prep,Solid Extraction - Texas Total petroleum Hydrocarbons		Complete							70966	01/26/2012 11:36		NV
<b>Method:</b> EPA Moisture,Solid Percent Moisture	STL00177	26			1.0	1.0	1.0	%	70705	01/23/2012 17:19	1	SUP
Percent Solids	STL00234	74			1.0	1.0	1.0	%	70705	01/23/2012 17:19	1	SUP
<b>Method:</b> SW846 6010B,Solid Cadmium	7440-43-9	0.900			0.0256	0.250	0.0332	mg/Kg	71181	01/30/2012 13:47	1	SRP
Lead	7439-92-1	253			0.105	0.500	0.136	mg/Kg	71181	01/30/2012 13:47	1	SRP
<b>Method:</b> TCEQ TX 1005,Solid C6-C12	STL00061	6.33	U		4.67	25.0	6.33	mg/Kg	71169	01/27/2012 18:38	1	RV
>C12-C28	STL00035	8.21	U		6.06	25.0	8.21	mg/Kg	71169	01/27/2012 18:38	1	RV
>C28-C35	STL00147	13.0	U		9.59	25.0	13.0	mg/Kg	71169	01/27/2012 18:38	1	RV
C6-C35	STL00006	13.0	U		9.59	25.0	13.0	mg/Kg	71169	01/27/2012 18:38	1	RV

**Surrogates**

Test Method	CAS Number	QC Type	Result	True Value	% Rec.	QC Limits	Flag	Instrument	Prep Batch	Analysis Date/Time	D.F.	Analyst
o-Terphenyl	84-15-1		14.9	16.9	88	70-130		FID07	70966	01/27/2012 18:38	1	RV

**Analytical Data**

Pastor, Behling & Wheeler LLC  
 ATTN: Mr. Chris Moore  
 Job Number: 600-49143-1  
 Project: Exide Recycling Center, Frisco TX Projec  
 SDG Number: Exide Recycling Center, Frisco TX Projec

**Client Sample ID:** 2012-FWCS-5

**Lab Sample ID:** 600-49143-3

**Client Matrix:** Solid

**Date Sampled:** 01/19/2012 12:06

**Date Received:** 01/20/2012 09:37

Test Method	CAS Number	Result	Q	Flag	MDL	MQL	SDL	Unit	Batch	Analysis Date/Time	D.F.	Analyst
<b>Method:</b> SW846 3050B,Solid Preparation, Metals		Complete							71001	01/26/2012 15:05		NER
<b>Method:</b> TCEQ TX_1005_S_Prep,Solid Extraction - Texas Total petroleum Hydrocarbons		Complete							70966	01/26/2012 11:36		NV
<b>Method:</b> EPA Moisture,Solid Percent Moisture	STL00177	24			1.0	1.0	1.0	%	70705	01/23/2012 17:19	1	SUP
Percent Solids	STL00234	76			1.0	1.0	1.0	%	70705	01/23/2012 17:19	1	SUP
<b>Method:</b> SW846 6010B,Solid Cadmium	7440-43-9	1.30			0.0256	0.250	0.0324	mg/Kg	71181	01/30/2012 13:51	1	SRP
Lead	7439-92-1	224			0.105	0.500	0.132	mg/Kg	71181	01/30/2012 13:51	1	SRP
<b>Method:</b> TCEQ TX 1005,Solid C6-C12	STL00061	6.12	U		4.67	25.0	6.12	mg/Kg	71169	01/27/2012 19:13	1	RV
>C12-C28	STL00035	7.95	U		6.06	25.0	7.95	mg/Kg	71169	01/27/2012 19:13	1	RV
>C28-C35	STL00147	12.6	U		9.59	25.0	12.6	mg/Kg	71169	01/27/2012 19:13	1	RV
C6-C35	STL00006	12.6	U		9.59	25.0	12.6	mg/Kg	71169	01/27/2012 19:13	1	RV

**Surrogates**

Test Method	CAS Number	QC Type	Result	True Value	% Rec.	QC Limits	Flag	Instrument	Prep Batch	Analysis Date/Time	D.F.	Analyst
o-Terphenyl	84-15-1		15.0	16.4	92	70-130		FID07	70966	01/27/2012 19:13	1	RV

**Analytical Data**

Pastor, Behling & Wheeler LLC  
 ATTN: Mr. Chris Moore  
 Job Number: 600-49143-1  
 Project: Exide Recycling Center, Frisco TX Projec  
 SDG Number: Exide Recycling Center, Frisco TX Projec

**Client Sample ID:** 2012-FWCS-4

**Lab Sample ID:** 600-49143-4

**Client Matrix:** Solid

**Date Sampled:** 01/19/2012 12:31

**Date Received:** 01/20/2012 09:37

Test Method	CAS Number	Result	Q	Flag	MDL	MQL	SDL	Unit	Batch	Analysis Date/Time	D.F.	Analyst
<b>Method:</b> SW846 3050B,Solid Preparation, Metals		Complete							71001	01/26/2012 15:05		NER
<b>Method:</b> TCEQ TX_1005_S_Prep,Solid Extraction - Texas Total petroleum Hydrocarbons		Complete							70966	01/26/2012 11:36		NV
<b>Method:</b> EPA Moisture,Solid Percent Moisture	STL00177	29			1.0	1.0	1.0	%	70705	01/23/2012 17:19	1	SUP
Percent Solids	STL00234	71			1.0	1.0	1.0	%	70705	01/23/2012 17:19	1	SUP
<b>Method:</b> SW846 6010B,Solid Cadmium	7440-43-9	0.116	J		0.0256	0.250	0.0362	mg/Kg	71181	01/30/2012 13:55	1	SRP
Lead	7439-92-1	158			0.105	0.500	0.148	mg/Kg	71181	01/30/2012 13:55	1	SRP
<b>Method:</b> TCEQ TX 1005,Solid C6-C12	STL00061	6.58	U		4.67	25.0	6.58	mg/Kg	71169	01/27/2012 19:47	1	RV
>C12-C28	STL00035	8.54	U		6.06	25.0	8.54	mg/Kg	71169	01/27/2012 19:47	1	RV
>C28-C35	STL00147	13.5	U		9.59	25.0	13.5	mg/Kg	71169	01/27/2012 19:47	1	RV
C6-C35	STL00006	13.5	U		9.59	25.0	13.5	mg/Kg	71169	01/27/2012 19:47	1	RV

**Surrogates**

Test Method	CAS Number	QC Type	Result	True Value	% Rec.	QC Limits	Flag	Instrument	Prep Batch	Analysis Date/Time	D.F.	Analyst
o-Terphenyl	84-15-1		15.9	17.6	90	70-130		FID07	70966	01/27/2012 19:47	1	RV

**Analytical Data**

Pastor, Behling & Wheeler LLC  
 ATTN: Mr. Chris Moore  
 Job Number: 600-49143-1  
 Project: Exide Recycling Center, Frisco TX Projec  
 SDG Number: Exide Recycling Center, Frisco TX Projec

**Client Sample ID:** 2012-FWCS-3

**Lab Sample ID:** 600-49143-5

**Client Matrix:** Solid

**Date Sampled:** 01/19/2012 12:55

**Date Received:** 01/20/2012 09:37

Test Method	CAS Number	Result	Q	Flag	MDL	MQL	SDL	Unit	Batch	Analysis Date/Time	D.F.	Analyst
<b>Method:</b> SW846 3050B,Solid Preparation, Metals		Complete							71001	01/26/2012 15:05		NER
					1.0	1.0	1.0	%	70705	01/23/2012 17:19	1	SUP
<b>Method:</b> TCEQ TX_1005_S_Prep,Solid Extraction - Texas Total petroleum Hydrocarbons		Complete			1.0	1.0	1.0	%	70705	01/23/2012 17:19	1	SUP
					0.0256	0.250	0.0320	mg/Kg	71181	01/30/2012 13:58	1	SRP
<b>Method:</b> SW846 6010B,Solid Cadmium	7440-43-9	0.145	J		0.105	0.500	0.131	mg/Kg	71181	01/30/2012 13:58	1	SRP
	7439-92-1	35.0										
<b>Method:</b> TCEQ TX 1005,Solid C6-C12		6.05	U		4.67	25.0	6.05	mg/Kg	71145	01/27/2012 19:47	1	RV
>C12-C28	STL00061	7.85	U		6.06	25.0	7.85	mg/Kg	71145	01/27/2012 19:47	1	RV
>C28-C35	STL00035	12.4	U		9.59	25.0	12.4	mg/Kg	71145	01/27/2012 19:47	1	RV
C6-C35	STL00147	12.4	U		9.59	25.0	12.4	mg/Kg	71145	01/27/2012 19:47	1	RV
	STL00006											
<b>Surrogates</b>												
Test Method	CAS Number	QC Type	Result	True Value	% Rec.	QC Limits	Flag	Instrument	Prep Batch	Analysis Date/Time	D.F.	Analyst
o-Terphenyl	84-15-1		16.8	16.2	104	70-130		FID07	70966	01/27/2012 19:47	1	RV

**Analytical Data**

Pastor, Behling & Wheeler LLC  
 ATTN: Mr. Chris Moore  
 Job Number: 600-49143-1  
 Project: Exide Recycling Center, Frisco TX Projec  
 SDG Number: Exide Recycling Center, Frisco TX Projec

**Client Sample ID:** 2012-FWCS-2

**Lab Sample ID:** 600-49143-6  
**Client Matrix:** Solid

**Date Sampled:** 01/19/2012 13:19  
**Date Received:** 01/20/2012 09:37

Test Method	CAS Number	Result	Q	Flag	MDL	MQL	SDL	Unit	Batch	Analysis Date/Time	D.F.	Analyst
<b>Method:</b> SW846 3050B,Solid Preparation, Metals		Complete							71001	01/26/2012 15:05		NER
<b>Method:</b> TCEQ TX_1005_S_Prep,Solid Extraction - Texas Total petroleum Hydrocarbons		Complete							70966	01/26/2012 11:36		NV
<b>Method:</b> EPA Moisture,Solid Percent Moisture	STL00177	20			1.0	1.0	1.0	%	70705	01/23/2012 17:19	1	SUP
Percent Solids	STL00234	80			1.0	1.0	1.0	%	70705	01/23/2012 17:19	1	SUP
<b>Method:</b> SW846 6010B,Solid Cadmium	7440-43-9	0.0756	J		0.0256	0.250	0.0313	mg/Kg	71181	01/30/2012 14:10	1	SRP
Lead	7439-92-1	23.6			0.105	0.500	0.128	mg/Kg	71181	01/30/2012 14:10	1	SRP
<b>Method:</b> TCEQ TX 1005,Solid C6-C12	STL00061	5.85	U		4.67	25.0	5.85	mg/Kg	71145	01/27/2012 20:56	1	RV
>C12-C28	STL00035	30.5	J		6.06	25.0	7.59	mg/Kg	71145	01/27/2012 20:56	1	RV
>C28-C35	STL00147	12.0	U		9.59	25.0	12.0	mg/Kg	71145	01/27/2012 20:56	1	RV
C6-C35	STL00006	30.5	J		9.59	25.0	12.0	mg/Kg	71145	01/27/2012 20:56	1	RV
<b>Surrogates</b>												
Test Method	CAS Number	QC Type	Result	True Value	% Rec.	QC Limits	Flag	Instrument	Prep Batch	Analysis Date/Time	D.F.	Analyst
o-Terphenyl	84-15-1		16.8	15.7	107	70-130		FID07	70966	01/27/2012 20:56	1	RV

**Analytical Data**

Pastor, Behling & Wheeler LLC  
 ATTN: Mr. Chris Moore

Job Number: 600-49143-1  
 Project: Exide Recycling Center, Frisco TX Projec  
 SDG Number: Exide Recycling Center, Frisco TX Projec

**Client Sample ID:** Field Blank 4

**Lab Sample ID:** 600-49143-7

**Client Matrix:** Water

**Date Sampled:** 01/19/2012 14:45  
**Date Received:** 01/20/2012 09:37

Test Method	CAS Number	Result	Q	Flag	MDL	SQL	Unit	Batch	Analysis Date/Time	D.F.	Analyst	
<b>Method:</b> TCEQ TX_1005_W_Prep,Water Extraction - Texas Total petroleum Hydrocarbons		Complete						71005	01/26/2012 15:45		NV	
<b>Method:</b> TCEQ TX 1005,Water												
C6-C12	STL00061	0.362	U		0.370	0.362	mg/L	71145	01/27/2012 16:20	1	RV	
>C12-C28	STL00035	0.313	U		0.320	0.313	mg/L	71145	01/27/2012 16:20	1	RV	
>C28-C35	STL00147	0.547	U		0.560	0.547	mg/L	71145	01/27/2012 16:20	1	RV	
C6-C35	STL00006	0.547	U		0.560	0.547	mg/L	71145	01/27/2012 16:20	1	RV	
<b>Surrogates</b>												
Test Method	CAS Number	QC Type	Result	True Value	% Rec.	QC Limits	Flag	Instrument	Prep Batch	Analysis Date/Time	D.F.	Analyst
o-Terphenyl	84-15-1		1.89	1.63	116	70-130		FID07	71005	01/27/2012 16:20	1	RV

**Analytical Data**

Pastor, Behling & Wheeler LLC  
 ATTN: Mr. Chris Moore  
 Job Number: 600-49143-1  
 Project: Exide Recycling Center, Frisco TX Projec  
 SDG Number: Exide Recycling Center, Frisco TX Projec

**Client Sample ID:** IDW 1  
**Lab Sample ID:** 600-49143-8  
**Date Sampled:** 01/19/2012 15:39  
**Client Matrix:** Solid  
**Date Received:** 01/20/2012 09:37

Test Method	CAS Number	Result	Q	Flag	MDL	MQL	SDL	Unit	Batch	Analysis Date/Time	D.F.	Analyst
<b>Method:</b> SW846 3010A,Solid,TCLP Preparation, Total Metals		Complete							70836	01/25/2012 10:25		SRP
<b>Method:</b> SW846 7470A,Solid,TCLP Preparation, Mercury		Complete							70863	01/25/2012 11:15		DCL
<b>Method:</b> SW846 3050B,Solid Preparation, Metals		Complete							71001	01/26/2012 15:05	Dry Weight Corrected?: Y	NER
<b>Method:</b> SW846 7.3.3,Solid Cyanide, Reactive		Complete							71253	01/30/2012 09:00	Dry Weight Corrected?: N	BDG
<b>Method:</b> SW846 7.3.4,Solid Sulfide, Reactive		Complete							71253	01/30/2012 09:00	Dry Weight Corrected?: N	BDG
<b>Method:</b> SW846 6010B,Solid,TCLP Pb	7439-92-1	0.0290	U		0.00290	0.0100	0.0290	mg/L	70888	01/25/2012 17:02	1	SRP
Cr	7440-47-3	0.0155	U		0.00155	0.0100	0.0155	mg/L	70888	01/25/2012 17:02	1	SRP
Cd	7440-43-9	0.00450	J		0.000350	0.00500	0.00350	mg/L	70888	01/25/2012 17:02	1	SRP
Ba	7440-39-3	0.498		b	0.00220	0.0200	0.0220	mg/L	70888	01/25/2012 17:02	1	SRP
As	7440-38-2	0.0328	U		0.00328	0.0100	0.0328	mg/L	70888	01/25/2012 17:02	1	SRP
Ag	7440-22-4	0.0125	U		0.00125	0.0100	0.0125	mg/L	70888	01/25/2012 17:02	1	SRP
Se	7782-49-2	0.0417	U		0.00417	0.0400	0.0417	mg/L	70888	01/25/2012 17:02	1	SRP
<b>Method:</b> SW846 7470A,Solid,TCLP Mercury	7439-97-6	0.0260	U		0.0260	0.200	0.0260	ug/L	70887	01/25/2012 15:32	1	DCL
<b>Method:</b> ASTM D92,Solid Flashpoint	STL00152	>212			1.00	1.00	1.00	Degrees F	70933	01/25/2012 13:00	1	SUP
<b>Method:</b> EPA 7.4.4,Solid Sulfide, Reactive	STL00261	14.0	U		14.0	50.0	14.0	mg/Kg	71278	01/31/2012 12:00	1	BDG
<b>Method:</b> EPA Moisture,Solid Percent Moisture	STL00177	24			1.0	1.0	1.0	%	70705	01/23/2012 17:19	1	SUP
Percent Solids	STL00234	76			1.0	1.0	1.0	%	70705	01/23/2012 17:19	1	SUP
<b>Method:</b> SW846 6010B,Solid Lead	7439-92-1	257			0.105	0.500	0.134	mg/Kg	71181	01/30/2012 14:14	1	SRP



**Analytical Data**

Pastor, Behling & Wheeler LLC  
 ATTN: Mr. Chris Moore

Job Number: 600-49143-1  
 Project: Exide Recycling Center, Frisco TX Projec  
 SDG Number: Exide Recycling Center, Frisco TX Projec

**Client Sample ID:** IDW 1

Lab Sample ID: 600-49143-8  
 Client Matrix: Solid

Date Sampled: 01/19/2012 15:39  
 Date Received: 01/20/2012 09:37

Test Method	CAS Number	Result	Q	Flag	MDL	MQL	SDL	Unit	Batch	Analysis Date/Time	D.F.	Analyst
<b>Method:</b> SW846 9012, Solid Cyanide, Reactive	STL00045	85.5	U		85.5	250	85.5	ug/Kg	71273	01/31/2012 12:22	1	BDG
<b>Method:</b> SW846 9045C, Solid pH	STL00204	7.60		HF	0.0100	0.0100	0.0100	SU	71179	01/30/2012 11:00	1	MB

Dry Weight Corrected?: N  
 Dry Weight Corrected?: N

**Analytical Data**

Pastor, Behling & Wheeler LLC  
 ATTN: Mr. Chris Moore

Job Number: 600-49143-1  
 Project: Exide Recycling Center, Frisco TX Projec  
 SDG Number: Exide Recycling Center, Frisco TX Projec

**Client Sample ID:** IDW 2

Lab Sample ID: 600-49143-9  
 Client Matrix: Water

Date Sampled: 01/19/2012 15:51  
 Date Received: 01/20/2012 09:37

Test Method	CAS Number	Result	Q	Flag	MDL	MQL	SDL	Unit	Batch	Analysis Date/Time	D.F.	Analyst
<b>Method:</b> SW846 3010A, Water, TCLP Preparation, Total Metals		Complete							70836	01/25/2012 10:25		SRP
<b>Method:</b> SW846 7470A, Water, TCLP Preparation, Mercury		Complete							70863	01/25/2012 11:15		DCL
<b>Method:</b> SW846 3010A, Water Preparation, Total Metals		Complete							70604	01/23/2012 05:50		DCL
<b>Method:</b> SW846 7.3.3, Water Cyanide, Reactive		Complete							71253	01/30/2012 09:00		BDG
<b>Method:</b> SW846 7.3.4, Water Sulfide, Reactive		Complete							71253	01/30/2012 09:00		BDG
<b>Method:</b> SW846 6010B, Water, TCLP												
Pb	7439-92-1	0.805			0.00290	0.0100	0.0290	mg/L	70888	01/25/2012 16:39	1	SRP
Cr	7440-47-3	0.0155	U		0.00155	0.0100	0.0155	mg/L	70888	01/25/2012 16:39	1	SRP
Cd	7440-43-9	0.00880	J		0.000350	0.00500	0.00350	mg/L	70888	01/25/2012 16:39	1	SRP
Ba	7440-39-3	0.142	J	b	0.00220	0.0200	0.0220	mg/L	70888	01/25/2012 16:39	1	SRP
As	7440-38-2	0.0328	U		0.00328	0.0100	0.0328	mg/L	70888	01/25/2012 16:39	1	SRP
Ag	7440-22-4	0.0125	U		0.00125	0.0100	0.0125	mg/L	70888	01/25/2012 16:39	1	SRP
Se	7782-49-2	0.0531	J		0.00417	0.0400	0.0417	mg/L	70888	01/25/2012 16:39	1	SRP
<b>Method:</b> SW846 7470A, Water, TCLP												
Mercury	7439-97-6	0.0260	U		0.0260	0.200	0.0260	ug/L	70887	01/25/2012 15:21	1	DCL
<b>Method:</b> EPA 7.4.4, Water Sulfide, Reactive	STL00261	10.0	J		1.40	50.0	1.40	mg/L	71278	01/31/2012 12:00	1	BDG
<b>Method:</b> SW846 6010B, Water Lead	7439-92-1	1.32			0.00290	0.0100	0.00290	mg/L	70835	01/25/2012 12:27	1	DCL
<b>Method:</b> SW846 9012, Water Cyanide, Reactive	STL00045	0.0397	U		0.0397	0.250	0.0397	mg/L	71273	01/31/2012 12:28	1	BDG
<b>Method:</b> SW846 9040B, Water pH	STL00204	8.10		H	0.0100	0.0100	0.0100	SU	71295	01/31/2012 15:45	1	MB
<b>Method:</b> SW846 SW846 Ch. 7, Water												

**Analytical Data**

Pastor, Behling & Wheeler LLC  
ATTN: Mr. Chris Moore

Job Number: 600-49143-1  
Project: Exide Recycling Center, Frisco TX Projec  
SDG Number: Exide Recycling Center, Frisco TX Projec

**Client Sample ID:** IDW 2

**Lab Sample ID:** 600-49143-9  
**Client Matrix:** Water

**Date Sampled:** 01/19/2012 15:51  
**Date Received:** 01/20/2012 09:37

Test Method	CAS Number	Result	Q	Flag	MDL	MQL	SDL	Unit	Batch	Analysis Date/Time	D.F.	Analyst
Flashpoint	STL00152	>186			1.00	1.00	1.00	Degrees F	70973	01/26/2012 10:30	1	SUP

**Analytical Data**

Pastor, Behling & Wheeler LLC  
 ATTN: Mr. Chris Moore  
 Job Number: 600-49143-1  
 Project: Exide Recycling Center, Frisco TX Projec  
 SDG Number: Exide Recycling Center, Frisco TX Projec

**Client Sample ID:** Equipment Blank 8

Lab Sample ID: 600-49143-10

Client Matrix: Water

Date Sampled: 01/19/2012 16:09

Date Received: 01/20/2012 09:37

Test Method	CAS Number	Result	Q	Flag	MDL	MQL	SDL	Unit	Batch	Analysis Date/Time	D.F.	Analyst
<b>Method: SW846 3010A,Water</b> Preparation, Total Metals		Complete							70604	01/23/2012 05:50		DCL
<b>Method: TCEQ TX_1005_W_Prep,Water</b> Extraction - Texas Total petroleum Hydrocarbons		Complete							71005	01/26/2012 15:45		NV
<b>Method: SW846 6010B,Water</b> Cadmium	7440-43-9	0.000500	J		0.000350	0.00500	0.000350	mg/L	70835	01/25/2012 12:30	1	DCL
Lead	7439-92-1	0.0542			0.00290	0.0100	0.00290	mg/L	70835	01/25/2012 12:30	1	DCL
<b>Method: TCEQ TX 1005,Water</b> C6-C12	STL00061	0.360	U		0.370	5.00	0.360	mg/L	71145	01/27/2012 16:55	1	RV
>C12-C28	STL00035	0.311	U		0.320	5.00	0.311	mg/L	71145	01/27/2012 16:55	1	RV
>C28-C35	STL00147	0.545	U		0.560	5.00	0.545	mg/L	71145	01/27/2012 16:55	1	RV
C6-C35	STL00006	0.545	U		0.560	5.00	0.545	mg/L	71145	01/27/2012 16:55	1	RV

**Surrogates**

Test Method	CAS Number	QC Type	Result	True Value	% Rec.	QC Limits	Flag	Instrument	Prep Batch	Analysis Date/Time	D.F.	Analyst
o-Terphenyl	84-15-1		1.92	1.62	118	70-130		FID07	71005	01/27/2012 16:55	1	RV

**Analytical Data**

Pastor, Behling & Wheeler LLC  
 ATTN: Mr. Chris Moore

Job Number: 600-49143-1  
 Project: Exide Recycling Center, Frisco TX Projec  
 SDG Number: Exide Recycling Center, Frisco TX Projec

**Client Sample ID:** Trip Blank 1/14/12

**Lab Sample ID:** 600-49143-11

**Client Matrix:** Water

**Date Sampled:** 01/14/2012 00:00

**Date Received:** 01/20/2012 09:37

Test Method	CAS Number	Result	Q	Flag	MDL	% Rec.	QC Limits	Flag	Instrument	Prep Batch	Analysis Date/Time	D.F.	Analyst
<b>Method:</b> TCEQ TX_1005_W_Prep,Water Extraction - Texas Total petroleum Hydrocarbons		Complete											
<b>Method:</b> TCEQ TX 1005,Water													
C6-C12	STL00061	0.364	U		0.370	5.00	5.00	0.364	mg/L	71145	01/27/2012 17:29	1	RV
>C12-C28	STL00035	0.315	U		0.320	5.00	5.00	0.315	mg/L	71145	01/27/2012 17:29	1	RV
>C28-C35	STL00147	0.551	U		0.560	5.00	5.00	0.551	mg/L	71145	01/27/2012 17:29	1	RV
C6-C35	STL00006	0.551	U		0.560	5.00	5.00	0.551	mg/L	71145	01/27/2012 17:29	1	RV
<b>Surrogates</b>													
Test Method	CAS Number	QC Type	Result	True Value	% Rec.	QC Limits	Flag	Instrument	Prep Batch	Analysis Date/Time	D.F.	Analyst	
o-Terphenyl	84-15-1		2.02	1.64	123	70-130		FID07	71005	01/27/2012 17:29	1	RV	

## DATA REPORTING QUALIFIERS

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

Lab Section	Qualifier	Description
GC Semi VOA		
	U	Analyte was not detected at or above the SDL.
	J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
Metals		
	U	Analyte was not detected at or above the SDL.
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
	N	RPD of the MS and MSD exceeds the control limits
	b	The compound was found in the blank and sample
General Chemistry		
	U	Analyte was not detected at or above the SDL.
	HF	Field parameter with a holding time of 15 minutes
	J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
	H	Sample was prepped or analyzed beyond the specified holding time

# QUALITY CONTROL RESULTS

## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

## QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>GC Semi VOA</b>					
<b>Prep Batch: 600-70966</b>					
LCS 600-70966/2-A	Lab Control Sample	T	Solid	TX_1005_S_Prep	
MB 600-70966/1-A	Method Blank	T	Solid	TX_1005_S_Prep	
600-49143-1	2012-FWCS-7	T	Solid	TX_1005_S_Prep	
600-49143-1MS	Matrix Spike	T	Solid	TX_1005_S_Prep	
600-49143-1MSD	Matrix Spike Duplicate	T	Solid	TX_1005_S_Prep	
600-49143-2	2012-FWCS-6	T	Solid	TX_1005_S_Prep	
600-49143-3	2012-FWCS-5	T	Solid	TX_1005_S_Prep	
600-49143-4	2012-FWCS-4	T	Solid	TX_1005_S_Prep	
600-49143-5	2012-FWCS-3	T	Solid	TX_1005_S_Prep	
600-49143-6	2012-FWCS-2	T	Solid	TX_1005_S_Prep	
<b>Prep Batch: 600-71005</b>					
LCS 600-71005/2-A	Lab Control Sample	T	Water	TX_1005_W_Pre	
MB 600-71005/1-A	Method Blank	T	Water	TX_1005_W_Pre	
600-49143-7	Field Blank 4	T	Water	TX_1005_W_Pre	
600-49143-10	Equipment Blank 8	T	Water	TX_1005_W_Pre	
600-49143-11	Trip Blank 1/14/12	T	Water	TX_1005_W_Pre	
<b>Analysis Batch:600-71145</b>					
LCS 600-71005/2-A	Lab Control Sample	T	Water	TX 1005	600-71005
MB 600-71005/1-A	Method Blank	T	Water	TX 1005	600-71005
600-49143-5	2012-FWCS-3	T	Solid	TX 1005	600-70966
600-49143-6	2012-FWCS-2	T	Solid	TX 1005	600-70966
600-49143-7	Field Blank 4	T	Water	TX 1005	600-71005
600-49143-10	Equipment Blank 8	T	Water	TX 1005	600-71005
600-49143-11	Trip Blank 1/14/12	T	Water	TX 1005	600-71005
<b>Analysis Batch:600-71169</b>					
LCS 600-70966/2-A	Lab Control Sample	T	Solid	TX 1005	600-70966
MB 600-70966/1-A	Method Blank	T	Solid	TX 1005	600-70966
600-49143-1	2012-FWCS-7	T	Solid	TX 1005	600-70966
600-49143-1MS	Matrix Spike	T	Solid	TX 1005	600-70966
600-49143-1MSD	Matrix Spike Duplicate	T	Solid	TX 1005	600-70966
600-49143-2	2012-FWCS-6	T	Solid	TX 1005	600-70966
600-49143-3	2012-FWCS-5	T	Solid	TX 1005	600-70966
600-49143-4	2012-FWCS-4	T	Solid	TX 1005	600-70966

Report Basis

T = Total

TestAmerica Houston



## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

## QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>Metals</b>					
<b>Prep Batch: 600-70604</b>					
LCS 600-70604/2-A	Lab Control Sample	T	Water	3010A	
MB 600-70604/1-A	Method Blank	T	Water	3010A	
600-49143-9	IDW 2	T	Water	3010A	
600-49143-10	Equipment Blank 8	T	Water	3010A	
<b>Prep Batch: 600-70806</b>					
LB 600-70806/1-B	TCLP SPLPE Leachate Blank	P	Solid	1311	
LB 600-70806/1-C	TCLP SPLPE Leachate Blank	P	Solid	1311	
600-49143-8	IDW 1	P	Solid	1311	
600-49143-9	IDW 2	P	Water	1311	
<b>Analysis Batch:600-70835</b>					
LCS 600-70604/2-A	Lab Control Sample	T	Water	6010B	600-70604
MB 600-70604/1-A	Method Blank	T	Water	6010B	600-70604
600-49143-9	IDW 2	T	Water	6010B	600-70604
600-49143-10	Equipment Blank 8	T	Water	6010B	600-70604
<b>Prep Batch: 600-70836</b>					
LCS 600-70836/2-A	Lab Control Sample	T	Water	3010A	
MB 600-70836/1-A	Method Blank	T	Water	3010A	
LB 600-70806/1-B	TCLP SPLPE Leachate Blank	P	Solid	3010A	600-70806
600-49143-8	IDW 1	P	Solid	3010A	600-70806
600-49143-9	IDW 2	P	Water	3010A	600-70806
<b>Prep Batch: 600-70863</b>					
LCS 600-70863/8-A	Lab Control Sample	T	Water	7470A	
MB 600-70863/7-A	Method Blank	T	Water	7470A	
LB 600-70806/1-C	TCLP SPLPE Leachate Blank	P	Solid	7470A	600-70806
600-49143-8	IDW 1	P	Solid	7470A	600-70806
600-49143-9	IDW 2	P	Water	7470A	600-70806
<b>Analysis Batch:600-70887</b>					
LB 600-70806/1-C	TCLP SPLPE Leachate Blank	P	Solid	7470A	600-70863
LCS 600-70863/8-A	Lab Control Sample	T	Water	7470A	600-70863
MB 600-70863/7-A	Method Blank	T	Water	7470A	600-70863
600-49143-8	IDW 1	P	Solid	7470A	600-70863
600-49143-9	IDW 2	P	Water	7470A	600-70863
<b>Analysis Batch:600-70888</b>					
LB 600-70806/1-B	TCLP SPLPE Leachate Blank	P	Solid	6010B	600-70836
LCS 600-70836/2-A	Lab Control Sample	T	Water	6010B	600-70836
MB 600-70836/1-A	Method Blank	T	Water	6010B	600-70836
600-49143-8	IDW 1	P	Solid	6010B	600-70836
600-49143-9	IDW 2	P	Water	6010B	600-70836

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## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

## QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>Metals</b>					
<b>Prep Batch: 600-71001</b>					
LCS 600-71001/2-A	Lab Control Sample	T	Solid	3050B	
MB 600-71001/1-A	Method Blank	T	Solid	3050B	
600-49143-1	2012-FWCS-7	T	Solid	3050B	
600-49143-1DU	Duplicate	T	Solid	3050B	
600-49143-1MS	Matrix Spike	T	Solid	3050B	
600-49143-1MSD	Matrix Spike Duplicate	T	Solid	3050B	
600-49143-2	2012-FWCS-6	T	Solid	3050B	
600-49143-3	2012-FWCS-5	T	Solid	3050B	
600-49143-4	2012-FWCS-4	T	Solid	3050B	
600-49143-5	2012-FWCS-3	T	Solid	3050B	
600-49143-6	2012-FWCS-2	T	Solid	3050B	
600-49143-8	IDW 1	T	Solid	3050B	
<b>Analysis Batch:600-71181</b>					
LCS 600-71001/2-A	Lab Control Sample	T	Solid	6010B	600-71001
MB 600-71001/1-A	Method Blank	T	Solid	6010B	600-71001
600-49143-1	2012-FWCS-7	T	Solid	6010B	600-71001
600-49143-1DU	Duplicate	T	Solid	6010B	600-71001
600-49143-1MS	Matrix Spike	T	Solid	6010B	600-71001
600-49143-1MSD	Matrix Spike Duplicate	T	Solid	6010B	600-71001
600-49143-2	2012-FWCS-6	T	Solid	6010B	600-71001
600-49143-3	2012-FWCS-5	T	Solid	6010B	600-71001
600-49143-4	2012-FWCS-4	T	Solid	6010B	600-71001
600-49143-5	2012-FWCS-3	T	Solid	6010B	600-71001
600-49143-6	2012-FWCS-2	T	Solid	6010B	600-71001
600-49143-8	IDW 1	T	Solid	6010B	600-71001

**Report Basis**

P = TCLP

T = Total

## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

## QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>General Chemistry</b>					
<b>Analysis Batch:600-70705</b>					
600-49143-1	2012-FWCS-7	T	Solid	Moisture	
600-49143-1MS	Matrix Spike	T	Solid	Moisture	
600-49143-1MSD	Matrix Spike Duplicate	T	Solid	Moisture	
600-49143-2	2012-FWCS-6	T	Solid	Moisture	
600-49143-3	2012-FWCS-5	T	Solid	Moisture	
600-49143-4	2012-FWCS-4	T	Solid	Moisture	
600-49143-5	2012-FWCS-3	T	Solid	Moisture	
600-49143-6	2012-FWCS-2	T	Solid	Moisture	
600-49143-8	IDW 1	T	Solid	Moisture	
<b>Analysis Batch:600-70933</b>					
LCS 600-70933/2	Lab Control Sample	T	Solid	D92	
MB 600-70933/1	Method Blank	T	Solid	D92	
600-49143-8	IDW 1	T	Solid	D92	
<b>Analysis Batch:600-70973</b>					
LCS 600-70973/2	Lab Control Sample	T	Water	SW846 Ch. 7	
MB 600-70973/1	Method Blank	T	Water	SW846 Ch. 7	
600-49143-9	IDW 2	T	Water	SW846 Ch. 7	
600-49143-9DU	Duplicate	T	Water	SW846 Ch. 7	
<b>Analysis Batch:600-71179</b>					
LCS 600-71179/26	Lab Control Sample	T	Solid	9045C	
600-49143-8	IDW 1	T	Solid	9045C	
<b>Prep Batch: 600-71253</b>					
LCS 600-71253/2-A	Lab Control Sample	T	Solid	7.3.3	
MB 600-71253/1-A	Method Blank	T	Solid	7.3.3	
LCS 600-71253/2-A	Lab Control Sample	T	Solid	7.3.4	
MB 600-71253/1-A	Method Blank	T	Solid	7.3.4	
600-49143-8	IDW 1	T	Solid	7.3.3	
600-49143-8	IDW 1	T	Solid	7.3.4	
600-49143-9	IDW 2	T	Water	7.3.3	
600-49143-9	IDW 2	T	Water	7.3.4	
<b>Analysis Batch:600-71273</b>					
LCS 600-71253/2-A	Lab Control Sample	T	Solid	9012	600-71253
MB 600-71253/1-A	Method Blank	T	Solid	9012	600-71253
600-49143-8	IDW 1	T	Solid	9012	600-71253
600-49143-9	IDW 2	T	Water	9012	600-71253

TestAmerica Houston

## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

## QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:600-71278</b>					
LCS 600-71253/2-A	Lab Control Sample	T	Solid	7.4.4	600-71253
MB 600-71253/1-A	Method Blank	T	Solid	7.4.4	600-71253
600-49143-8	IDW 1	T	Solid	7.4.4	600-71253
600-49143-9	IDW 2	T	Water	7.4.4	600-71253
<b>Analysis Batch:600-71295</b>					
LCS 600-71295/1	Lab Control Sample	T	Water	9040B	
600-49143-9	IDW 2	T	Water	9040B	
600-49143-9DU	Duplicate	T	Water	9040B	

**Report Basis**

T = Total

**Quality Control Results**

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

**Surrogate Recovery Report****TX 1005 Texas - Total Petroleum Hydrocarbon (GC)****Client Matrix: Solid**

Lab Sample ID	Client Sample ID	OTPH %Rec	OTPH %Rec
600-49143-1	2012-FWCS-7		89
600-49143-2	2012-FWCS-6		88
600-49143-3	2012-FWCS-5		92
600-49143-4	2012-FWCS-4		90
600-49143-5	2012-FWCS-3	104	
600-49143-6	2012-FWCS-2	107	
MB 600-70966/1-A			91
LCS 600-70966/2-A			108
600-49143-1 MS	2012-FWCS-7 MS		106
600-49143-1 MSD	2012-FWCS-7 MSD		123

Surrogate

Acceptance Limits

OTPH = o-Terphenyl

70-130

## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

## Surrogate Recovery Report

TX 1005 Texas - Total Petroleum Hydrocarbon (GC)Client Matrix: Water

Lab Sample ID	Client Sample ID	OTPH %Rec
600-49143-7	Field Blank 4	116
600-49143-10	Equipment Blank 8	118
600-49143-11	Trip Blank 1/14/12	123
MB 600-71005/1-A		113
LCS 600-71005/2-A		128

Surrogate

Acceptance Limits

OTPH = o-Terphenyl

70-130

## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

## Method Blank - Batch: 600-70966

Method: TX 1005

Preparation: TX\_1005\_S\_Prep

Lab Sample ID:	MB 600-70966/1-A	Analysis Batch:	600-71169	Instrument ID:	FID07
Client Matrix:	Solid	Prep Batch:	600-70966	Lab File ID:	B012712_003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.00 g
Analysis Date:	01/27/2012 1436	Units:	mg/Kg	Final Weight/Volume:	10.00 mL
Prep Date:	01/26/2012 1136			Injection Volume:	2 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
C6-C12	4.67	U	4.67	25.0
>C12-C28	6.06	U	6.06	25.0
>C28-C35	9.59	U	9.59	25.0
C6-C35	9.59	U	9.59	25.0

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	91	70 - 130

## Lab Control Sample - Batch: 600-70966

Method: TX 1005

Preparation: TX\_1005\_S\_Prep

Lab Sample ID:	LCS 600-70966/2-A	Analysis Batch:	600-71169	Instrument ID:	FID07
Client Matrix:	Solid	Prep Batch:	600-70966	Lab File ID:	B012712_004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.00 g
Analysis Date:	01/27/2012 1511	Units:	mg/Kg	Final Weight/Volume:	10.00 mL
Prep Date:	01/26/2012 1136			Injection Volume:	2 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C6-C12	250	211.2	84	75 - 125	
>C12-C28	250	299.8	120	75 - 125	
C6-C35	500	511.0	102	75 - 125	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	108	70 - 130

## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

**Matrix Spike/****Matrix Spike Duplicate Recovery Report - Batch: 600-70966****Method: TX 1005****Preparation: TX\_1005\_S\_Prep**

MS Lab Sample ID:	600-49143-1	Analysis Batch:	600-71169	Instrument ID:	FID07
Client Matrix:	Solid	Prep Batch:	600-70966	Lab File ID:	B012712_008.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.03 g
Analysis Date:	01/27/2012 1729			Final Weight/Volume:	10.00 mL
Prep Date:	01/26/2012 1136			Injection Volume:	2 uL
Leach Date:	N/A				

MSD Lab Sample ID:	600-49143-1	Analysis Batch:	600-71169	Instrument ID:	FID07
Client Matrix:	Solid	Prep Batch:	600-70966	Lab File ID:	B012712_009.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.01 g
Analysis Date:	01/27/2012 1804			Final Weight/Volume:	10.00 mL
Prep Date:	01/26/2012 1136			Injection Volume:	2 uL
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
C6-C12	90	90	75 - 125	1	20		
>C12-C28	99	103	75 - 125	2	20		
C6-C35	95	96	75 - 125	1	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
o-Terphenyl	106		123	70 - 130			

**Matrix Spike/****Matrix Spike Duplicate Recovery Report - Batch: 600-70966****Method: TX 1005****Preparation: TX\_1005\_S\_Prep**

MS Lab Sample ID:	600-49143-1	Units:	mg/Kg	MSD Lab Sample ID:	600-49143-1
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/27/2012 1729			Analysis Date:	01/27/2012 1804
Prep Date:	01/26/2012 1136			Prep Date:	01/26/2012 1136
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
	Result/Qual					
C6-C12	6.66	U	357	353	321.8	317.4
>C12-C28	8.64	U	357	353	354.7	362.7
C6-C35	13.7	U	713	706	676.5	680.1



## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

## Method Blank - Batch: 600-71005

Method: TX 1005

Preparation: TX\_1005\_W\_Prep

Lab Sample ID:	MB 600-71005/1-A	Analysis Batch:	600-71145	Instrument ID:	FID07
Client Matrix:	Water	Prep Batch:	600-71005	Lab File ID:	A012712_003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 mL
Analysis Date:	01/27/2012 1436	Units:	mg/L	Final Weight/Volume:	3.00 mL
Prep Date:	01/26/2012 1545			Injection Volume:	2 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C6-C12	0.370	U	0.370	5.00
>C12-C28	0.320	U	0.320	5.00
>C28-C35	0.560	U	0.560	5.00
C6-C35	0.560	U	0.560	5.00

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	113	70 - 130

## Lab Control Sample - Batch: 600-71005

Method: TX 1005

Preparation: TX\_1005\_W\_Prep

Lab Sample ID:	LCS 600-71005/2-A	Analysis Batch:	600-71145	Instrument ID:	FID07
Client Matrix:	Water	Prep Batch:	600-71005	Lab File ID:	A012712_004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 mL
Analysis Date:	01/27/2012 1511	Units:	mg/L	Final Weight/Volume:	3.00 mL
Prep Date:	01/26/2012 1545			Injection Volume:	2 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C6-C12	33.3	36.61	110	75 - 125	
>C12-C28	33.3	39.18	118	75 - 125	
C6-C35	66.7	75.80	114	75 - 125	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	128	70 - 130

## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

## Method Blank - Batch: 600-70604

Method: 6010B  
Preparation: 3010A

Lab Sample ID:	MB 600-70604/1-A	Analysis Batch:	600-70835	Instrument ID:	Thermo6500
Client Matrix:	Water	Prep Batch:	600-70604	Lab File ID:	012512.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/25/2012 1140	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	01/23/2012 0550				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Lead	0.00290	U	0.00290	0.0100
Cadmium	0.000350	U	0.000350	0.00500

## Lab Control Sample - Batch: 600-70604

Method: 6010B  
Preparation: 3010A

Lab Sample ID:	LCS 600-70604/2-A	Analysis Batch:	600-70835	Instrument ID:	Thermo6500
Client Matrix:	Water	Prep Batch:	600-70604	Lab File ID:	012512.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/25/2012 1143	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	01/23/2012 0550				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	1.00	0.9466	95	80 - 120	
Cadmium	0.500	0.4716	94	80 - 120	

## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

## Method Blank - Batch: 600-70836

Method: 6010B  
Preparation: 3010A

Lab Sample ID:	MB 600-70836/1-A	Analysis Batch:	600-70888	Instrument ID:	TJA1
Client Matrix:	Water	Prep Batch:	600-70836	Lab File ID:	B012512
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/25/2012 1616	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	01/25/2012 1025				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Cr	0.00155	U	0.00155	0.0100
Pb	0.00290	U	0.00290	0.0100
Cd	0.000350	U	0.000350	0.00500
Ba	0.00220	U	0.00220	0.0200
As	0.00328	U	0.00328	0.0100
Ag	0.00125	U	0.00125	0.0100
Se	0.00417	U	0.00417	0.0400

## TCLP SPLPE Leachate Blank - Batch: 600-70836

Method: 6010B  
Preparation: 3010A  
TCLP

Lab Sample ID:	LB 600-70806/1-B	Analysis Batch:	600-70888	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-70836	Lab File ID:	B012512
Dilution:	1.0	Leach Batch:	600-70806	Initial Weight/Volume:	5 mL
Analysis Date:	01/25/2012 1624	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	01/25/2012 1025				
Leach Date:	01/24/2012 1813				

Analyte	Result	Qual	MDL	RL
Cr	0.0155	U	0.0155	0.100
Pb	0.0290	U	0.0290	0.100
Cd	0.00350	U	0.00350	0.0500
Ba	0.04930	J	0.0220	0.200
As	0.0328	U	0.0328	0.100
Ag	0.0125	U	0.0125	0.100
Se	0.0417	U	0.0417	0.400

## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

## Lab Control Sample - Batch: 600-70836

Method: 6010B

Preparation: 3010A

Lab Sample ID:	LCS 600-70836/2-A	Analysis Batch:	600-70888	Instrument ID:	TJA1
Client Matrix:	Water	Prep Batch:	600-70836	Lab File ID:	B012512
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/25/2012 1620	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	01/25/2012 1025				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cr	1.00	1.005	100	80 - 120	
Pb	1.00	1.022	102	80 - 120	
Cd	0.500	0.5203	104	80 - 120	
Ba	1.00	1.024	102	80 - 120	
As	1.00	1.021	102	80 - 120	
Ag	0.500	0.5084	102	80 - 120	
Se	1.00	1.021	102	80 - 120	

## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

## Method Blank - Batch: 600-71001

Method: 6010B  
Preparation: 3050B

Lab Sample ID:	MB 600-71001/1-A	Analysis Batch:	600-71181	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-71001	Lab File ID:	B013012
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	01/30/2012 1324	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	01/26/2012 1505				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	MQL
Lead	0.105	U	0.105	0.500
Cadmium	0.0256	U	0.0256	0.250

## Lab Control Sample - Batch: 600-71001

Method: 6010B  
Preparation: 3050B

Lab Sample ID:	LCS 600-71001/2-A	Analysis Batch:	600-71181	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-71001	Lab File ID:	B013012
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.50 g
Analysis Date:	01/30/2012 1328	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	01/26/2012 1505				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	144	130.3	91	79 - 121	
Cadmium	71.0	70.91	100	81 - 119	

## Matrix Spike/

## Matrix Spike Duplicate Recovery Report - Batch: 600-71001

Method: 6010B  
Preparation: 3050B

MS Lab Sample ID:	600-49143-1	Analysis Batch:	600-71181	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-71001	Lab File ID:	B013012
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	01/30/2012 1339			Final Weight/Volume:	50 mL
Prep Date:	01/26/2012 1505				
Leach Date:	N/A				

MSD Lab Sample ID:	600-49143-1	Analysis Batch:	600-71181	Instrument ID:	TJA1
Client Matrix:	Solid	Prep Batch:	600-71001	Lab File ID:	B013012
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	01/30/2012 1343			Final Weight/Volume:	50 mL
Prep Date:	01/26/2012 1505				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Cadmium	77	75	75 - 125	5	20		
Lead	156	57	75 - 125	51	20	N	N

**Quality Control Results**

Client: Pastor, Behling & Wheeler LLC

Job Number: 600-49143-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 600-71001**

**Method: 6010B  
Preparation: 3050B**

MS Lab Sample ID: 600-49143-1                      Units: mg/Kg  
 Client Matrix: Solid  
 Dilution: 1.0  
 Analysis Date: 01/30/2012 1339  
 Prep Date: 01/26/2012 1505  
 Leach Date: N/A

MSD Lab Sample ID: 600-49143-1  
 Client Matrix: Solid  
 Dilution: 1.0  
 Analysis Date: 01/30/2012 1343  
 Prep Date: 01/26/2012 1505  
 Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cadmium	0.583	34.7	34.0	27.44	26.09
Lead	63.9	69.5	67.9	172.0    N	102.3    N

**Duplicate - Batch: 600-71001**

**Method: 6010B  
Preparation: 3050B**

Lab Sample ID: 600-49143-1  
 Client Matrix: Solid  
 Dilution: 1.0  
 Analysis Date: 01/30/2012 1335  
 Prep Date: 01/26/2012 1505  
 Leach Date: N/A

Analysis Batch: 600-71181  
 Prep Batch: 600-71001  
 Leach Batch: N/A  
 Units: mg/Kg

Instrument ID: TJA1  
 Lab File ID: B013012  
 Initial Weight/Volume: 1.04 g  
 Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Lead	63.9	53.16	18	20	
Cadmium	0.583	0.9203	45	20	

## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

**Method Blank - Batch: 600-70863****Method: 7470A**  
**Preparation: 7470A**

Lab Sample ID:	MB 600-70863/7-A	Analysis Batch:	600-70887	Instrument ID:	FIMS01
Client Matrix:	Water	Prep Batch:	600-70863	Lab File ID:	FW012512.prn
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	40 mL
Analysis Date:	01/25/2012 1423	Units:	ug/L	Final Weight/Volume:	40 mL
Prep Date:	01/25/2012 1115				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0260	U	0.0260	0.200

**TCLP SPLPE Leachate Blank - Batch: 600-70863****Method: 7470A**  
**Preparation: 7470A**  
**TCLP**

Lab Sample ID:	LB 600-70806/1-C	Analysis Batch:	600-70887	Instrument ID:	FIMS01
Client Matrix:	Solid	Prep Batch:	600-70863	Lab File ID:	FW012512.prn
Dilution:	1.0	Leach Batch:	600-70806	Initial Weight/Volume:	40 mL
Analysis Date:	01/25/2012 1518	Units:	ug/L	Final Weight/Volume:	40 mL
Prep Date:	01/25/2012 1115				
Leach Date:	01/24/2012 1813				

Analyte	Result	Qual	MDL	RL
Mercury	0.0260	U	0.0260	0.200

**Lab Control Sample - Batch: 600-70863****Method: 7470A**  
**Preparation: 7470A**

Lab Sample ID:	LCS 600-70863/8-A	Analysis Batch:	600-70887	Instrument ID:	FIMS01
Client Matrix:	Water	Prep Batch:	600-70863	Lab File ID:	FW012512.prn
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/25/2012 1425	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	01/25/2012 1115				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	3.00	2.969	99	70 - 130	

## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

**Method Blank - Batch: 600-71253****Method: 7.4.4**  
**Preparation: 7.3.4**

Lab Sample ID:	MB 600-71253/1-A	Analysis Batch:	600-71278	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	600-71253	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 g
Analysis Date:	01/31/2012 1200	Units:	mg/Kg	Final Weight/Volume:	250 mL
Prep Date:	01/30/2012 0900				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Sulfide, Reactive	14.0	U	14.0	50.0

**Lab Control Sample - Batch: 600-71253****Method: 7.4.4**  
**Preparation: 7.3.4**

Lab Sample ID:	LCS 600-71253/2-A	Analysis Batch:	600-71278	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	600-71253	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 g
Analysis Date:	01/31/2012 1200	Units:	mg/Kg	Final Weight/Volume:	250 mL
Prep Date:	01/30/2012 0900				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfide, Reactive	1610	1120	70	0 - 100	



## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

**Method Blank - Batch: 600-71253**

Lab Sample ID: MB 600-71253/1-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Analysis Date: 01/31/2012 1220  
 Prep Date: 01/30/2012 0900  
 Leach Date: N/A

Analysis Batch: 600-71273  
 Prep Batch: 600-71253  
 Leach Batch: N/A  
 Units: ug/Kg

**Method: 9012  
Preparation: 7.3.3**

Instrument ID: WC05  
 Lab File ID: N/A  
 Initial Weight/Volume: 10 g  
 Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Reactive	85.5	U	85.5	250

**Lab Control Sample - Batch: 600-71253**

Lab Sample ID: LCS 600-71253/2-A  
 Client Matrix: Solid  
 Dilution: 20  
 Analysis Date: 01/31/2012 1221  
 Prep Date: 01/30/2012 0900  
 Leach Date: N/A

Analysis Batch: 600-71273  
 Prep Batch: 600-71253  
 Leach Batch: N/A  
 Units: ug/Kg

**Method: 9012  
Preparation: 7.3.3**

Instrument ID: WC05  
 Lab File ID: N/A  
 Initial Weight/Volume: 10 g  
 Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Reactive	1000000	72260	7	0 - 100	

## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

## Lab Control Sample - Batch: 600-71295

Method: 9040B  
Preparation: N/A

Lab Sample ID:	LCS 600-71295/1	Analysis Batch:	600-71295	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/31/2012 1545	Units:	SU	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.00	7.040	101	99 - 101	

## Duplicate - Batch: 600-71295

Method: 9040B  
Preparation: N/A

Lab Sample ID:	600-49143-9	Analysis Batch:	600-71295	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/31/2012 1545	Units:	SU	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	8.10	8.100	0	1	

**Quality Control Results**

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

**Lab Control Sample - Batch: 600-71179****Method: 9045C**  
**Preparation: N/A**

Lab Sample ID:	LCS 600-71179/26	Analysis Batch:	600-71179	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/30/2012 1100	Units:	SU	Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.00	6.980	100	99 - 101	

## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

**Method Blank - Batch: 600-70933****Method: D92**  
**Preparation: N/A**

Lab Sample ID:	MB 600-70933/1	Analysis Batch:	600-70933	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/25/2012 1300	Units:	Degrees F	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Flashpoint	>186		1.00	1.00

**Lab Control Sample - Batch: 600-70933****Method: D92**  
**Preparation: N/A**

Lab Sample ID:	LCS 600-70933/2	Analysis Batch:	600-70933	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/25/2012 1300	Units:	Degrees F	Final Weight/Volume:	60 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Flashpoint	81.0	81.70	101	96.91 - 103.09	

## Quality Control Results

Client: Pastor, Behling &amp; Wheeler LLC

Job Number: 600-49143-1

**Method Blank - Batch: 600-70973****Method: SW846 Ch. 7**  
**Preparation: N/A**

Lab Sample ID:	MB 600-70973/1	Analysis Batch:	600-70973	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/26/2012 1030	Units:	Degrees F	Final Weight/Volume:	60 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Flashpoint	>186		1.00	1.00

**Lab Control Sample - Batch: 600-70973****Method: SW846 Ch. 7**  
**Preparation: N/A**

Lab Sample ID:	LCS 600-70973/2	Analysis Batch:	600-70973	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/26/2012 1030	Units:	Degrees F	Final Weight/Volume:	60 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Flashpoint	81.0	81.94	101	96.91 - 103.09	

**Duplicate - Batch: 600-70973****Method: SW846 Ch. 7**  
**Preparation: N/A**

Lab Sample ID:	600-49143-9	Analysis Batch:	600-70973	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/26/2012 1030	Units:	Degrees F	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Flashpoint	>186	>186	NC	20	

# TX\_1005

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Texas - Total Petroleum Hydrocarbon  
(GC) by Method TX\_1005

FORM II  
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.: \_\_\_\_\_

Matrix: Solid Level: Low

GC Column (1): RTX-5 ID: 0.53 (mm) GC Column (2): \_\_\_\_\_ ID: \_\_\_\_\_

Client Sample ID	Lab Sample ID	OTPH #	OTPH #
2012-FWCS-7	600-49143-1		89
2012-FWCS-6	600-49143-2		88
2012-FWCS-5	600-49143-3		92
2012-FWCS-4	600-49143-4		90
2012-FWCS-3	600-49143-5	104	
2012-FWCS-2	600-49143-6	107	
	MB 600-70966/1-A		91
	LCS 600-70966/2-A		108
2012-FWCS-7 MS	600-49143-1 MS		106
2012-FWCS-7 MSD	600-49143-1 MSD		123

OTPH = o-Terphenyl

QC LIMITS  
70-130

# Column to be used to flag recovery values

FORM II TX 1005

FORM II  
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Houston Job No.: 600-49143-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): RTX-5 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	OTPH #
Field Blank 4	600-49143-7	116
Equipment Blank 8	600-49143-10	118
Trip Blank 1/14/12	600-49143-11	123
	MB 600-71005/1-A	113
	LCS 600-71005/2-A	128

OTPH = o-Terphenyl

QC LIMITS  
70-130

# Column to be used to flag recovery values

FORM II TX 1005