

**SIM Semivolatile Analysis
Standard Raw Data**

**prepared
for**

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

**prepared
by**

Analytical Resources, Inc.

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2006 10:25
 End Cal Date : 04-AUG-2006 12:28
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem3/nt1.i/20060804.b/simpna.m
 Cal Date : 04-Aug-2006 14:06 yev
 Curve Type : Average

Calibration File Names:

Level 1: /chem3/nt1.i/20060804.b/ic0803c.d
 Level 2: /chem3/nt1.i/20060804.b/ic0806f.d
 Level 3: /chem3/nt1.i/20060804.b/ic0805e.d
 Level 4: /chem3/nt1.i/20060804.b/ic0803a.d
 Level 5: /chem3/nt1.i/20060804.b/ic0804d.d
 Level 6: /chem3/nt1.i/20060804.b/ic0803b.d

Compound	0.10000 Level 1	0.50000 Level 2	1.000 Level 3	2.500 Level 4	5.000 Level 5	10.000 Level 6	RRF	% RSD
53 Perylene	1.43115	1.09078	0.96639	1.04957	1.15866	1.16206	1.14310	13.903
52 Benzo(e)pyrene	1.53090	1.13190	1.07658	1.14554	1.20260	1.21723	1.21746	13.286
51 1-Methylphenanthrene	0.80940	0.82731	0.76038	0.78604	0.89011	0.83876	0.81867	5.498
50 2,3,5-Trimethylnaphthalene	0.84431	0.79178	0.73359	0.76892	0.83141	0.81303	0.79717	5.177
49 2,6-Dimethylnaphthalene	0.99510	0.97266	0.90848	0.92961	1.00646	1.02718	0.97325	4.728
48 Biphenyl	1.31930	1.23199	1.16604	1.16092	1.27363	1.26234	1.23570	5.066
2 Naphthalene	1.12466	1.00931	0.89847	0.95812	1.00108	0.99392	0.99759	7.460
4 2-Methylnaphthalene	0.63581	0.61473	0.53693	0.56716	0.59303	0.59702	0.59078	5.914
5 1-Methylnaphthalene	0.69976	0.60112	0.57333	0.59404	0.63094	0.61897	0.61969	7.104
6 Dimethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Acenaphthylene	1.76463	1.61945	1.51099	1.61007	1.70647	1.73743	1.65817	5.748
9 Acenaphthene	1.00382	1.01322	0.89794	0.94982	1.00430	1.02309	0.98203	4.934
10 Dibenzofuran	1.53264	1.45734	1.32913	1.38669	1.48525	1.48803	1.44651	5.184
11 Fluorene	1.13564	1.17974	1.02653	1.06502	1.17154	1.17805	1.12609	5.806
12 Diethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Pentachlorophenol (ester)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Phenanthrene	1.17361	1.04291	0.92905	0.95712	1.02196	1.03476	1.02657	8.301
17 Anthracene	1.11351	0.97721	0.94890	0.97457	1.06714	1.07399	1.02589	6.557
18 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Fluoranthene	1.22401	1.03219	0.97216	0.97724	1.04303	1.03381	1.04707	8.775
20 Pyrene	1.41389	1.29929	1.17234	1.22526	1.32300	1.27178	1.28426	6.486

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2006 10:25
 End Cal Date : 04-AUG-2006 12:28
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem3/nt1.i/20060804.b/simpna.m
 Cal Date : 04-Aug-2006 14:06 yev
 Curve Type : Average

Compound	0.10000	0.50000	1.000	2.500	5.000	10.000		
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
21 Butylbenzylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Benzo(a)anthracene	1.43622	1.15219	1.08471	1.14797	1.21336	1.19178	1.20437	10.116
24 Chrysene	1.20866	1.06599	1.05663	1.06862	1.13615	1.12909	1.11086	5.291
25 Bis-2-Ethylhexylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 Benzo(b)fluoranthene	1.25514	1.06653	0.99327	1.15143	1.17026	1.13589	1.12875	7.972
29 Benzo(k)fluoranthene	1.27028	1.22994	1.14696	1.06693	1.19633	1.30970	1.20336	7.277
30 Benzo(a)pyrene	1.40367	1.04692	0.96366	1.01073	1.06659	1.10759	1.09986	14.247
33 Indeno(1,2,3-cd)pyrene	1.44180	1.21286	1.12410	1.22023	1.29241	1.29763	1.26484	8.489
34 Dibenz(a,h)anthracene	1.14880	0.98346	0.89994	0.99790	1.08788	1.08172	1.03328	8.676
35 Benzo(g,h,i)perylene	1.18275	1.00751	0.92124	1.01235	1.10231	1.08228	1.05141	8.633
\$ 3 2-Methylnaphthalene-d10	0.52948	0.51807	0.47369	0.50637	0.54023	0.52298	0.51514	4.511
\$ 13 2,4,6-Tribromophenol(ester)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 32 Dibenz(a,h)anthracene-d14	0.81924	0.73944	0.67786	0.75717	0.79969	0.79896	0.76539	6.816

YZ 8/4/06

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring
Data file : /chem3/nt1.i/20060804.b/ic0803a.d
Lab Smp Id: IC0803A
Inj Date : 04-AUG-2006 10:25
Operator : VTS
Smp Info : IC0803A
Misc Info : SIM2.5
Comment : 1ul Injection
Method : /chem3/nt1.i/20060804.b/simpna.m
Meth Date : 04-Aug-2006 14:06 yev
Cal Date : 04-AUG-2006 10:25
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50

Inst ID: nt1.i
Quant Type: ISTD
Cal File: ic0803a.d
Calibration Sample, Level: 4
Compound Sublist: pnat4.sub

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 1 Naphthalene-d8	136	6.885	6.883	(1.000)	222814	2.00000	
2 Naphthalene	128	6.908	6.907	(1.003)	266852	2.50000	2.401
\$ 3 2-Methylnaphthalene-d10	152	7.641	7.640	(1.110)	141032	2.50000	2.457
4 2-Methylnaphthalene	142	7.682	7.681	(1.116)	157963	2.50000	2.400
5 1-Methylnaphthalene	142	7.812	7.811	(1.135)	165451	2.50000	2.397
7 Acenaphthylene	152	8.770	8.769	(0.980)	248737	2.50000	2.427
* 8 Acenaphthene-d10	164	8.947	8.946	(1.000)	123591	2.00000	
9 Acenaphthene	153	8.989	8.987	(1.005)	146737	2.50000	2.418
10 Dibenzofuran	168	9.178	9.170	(1.026)	214228	2.50000	2.397
11 Fluorene	166	9.597	9.596	(1.073)	164534	2.50000	2.364
* 15 Phenanthrene-d10	188	10.762	10.760	(1.000)	200797	2.00000	
16 Phenanthrene	178	10.791	10.790	(1.003)	240234	2.50000	2.331
17 Anthracene	178	10.844	10.843	(1.008)	244614	2.50000	2.375
19 Fluoranthene	202	12.280	12.279	(1.141)	245283	2.50000	2.333
20 Pyrene	202	12.570	12.569	(0.893)	262220	2.50000	2.385
22 Benzo(a)anthracene	228	14.054	14.052	(0.998)	245679	2.50000	2.383
* 23 Chrysene-d12	240	14.077	14.070	(1.000)	171210	2.00000	
24 Chrysene	228	14.107	14.105	(1.002)	228699	2.50000	2.405
28 Benzo(b)fluoranthene	252	15.448	15.447	(0.964)	264003	2.50000	2.550(H)
29 Benzo(k)fluoranthene	252	15.478	15.476	(0.966)	244629	2.50000	2.217(H)
30 Benzo(a)pyrene	252	15.945	15.938	(0.995)	231742	2.50000	2.297
* 31 Perylene-d12	264	16.028	16.026	(1.000)	183426	2.00000	
33 Indeno(1,2,3-cd)pyrene	276	17.990	17.988	(1.122)	279777	2.50000	2.412
\$ 32 Dibenz(a,h)anthracene-d14	292	17.919	17.906	(1.118)	173606	2.50000	2.473
34 Dibenz(a,h)anthracene	278	17.984	17.976	(1.122)	228801	2.50000	2.414
35 Benzo(g,h,i)perylene	276	18.575	18.562	(1.159)	232114	2.50000	2.407
48 Biphenyl	154	8.220	8.219	(0.919)	179349	2.50000	2.349

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
===== 49 2,6-Dimethylnaphthalene	156	8.409	8.408	(0.940)	143614	2.50000	2.388
50 2,3,5-Trimethylnaphthalene	170	9.438	9.430	(1.055)	118790	2.50000	2.411
51 1-Methylphenanthrene	192	11.565	11.564	(0.822)	168222	2.50000	2.400
52 Benzo(e)pyrene	252	15.862	15.861	(0.990)	262653	2.50000	2.352
53 Perylene	252	16.069	16.068	(1.003)	240649	2.50000	2.295

QC Flag Legend

H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt1.i
 Lab File ID: ic0803a.d
 Lab Smp Id: IC0803A
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt1.i/20060804.b/simpna.m
 Misc Info: SIM2.5

Calibration Date: 04-AUG-2006
 Calibration Time: 10:25

Level: -
 Sample Type:

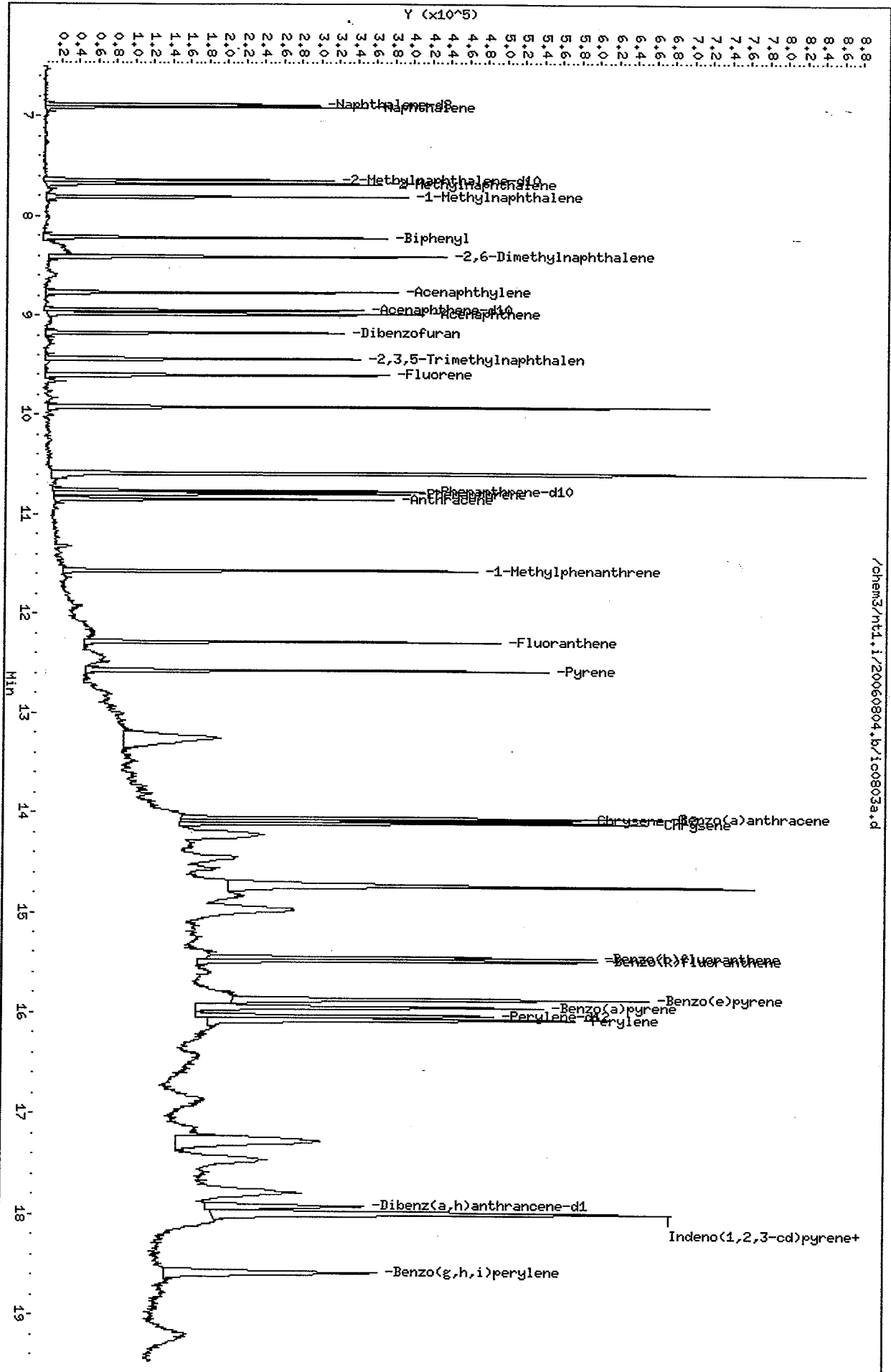
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	222814	111407	445628	222814	0.00
8 Acenaphthene-d10	123591	61796	247182	123591	0.00
15 Phenanthrene-d10	200797	100398	401594	200797	0.00
23 Chrysene-d12	171210	85605	342420	171210	0.00
31 Perylene-d12	183426	91713	366852	183426	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	6.88	6.38	7.38	6.88	0.00
8 Acenaphthene-d10	8.95	8.45	9.45	8.95	0.00
15 Phenanthrene-d10	10.76	10.26	11.26	10.76	0.00
23 Chrysene-d12	14.08	13.58	14.58	14.08	0.00
31 Perylene-d12	16.03	15.53	16.53	16.03	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060804.b/i00803a.d
 Date: 04-AUG-2006 10:25
 Client ID:
 Sample Info: IC0803A
 Column phase: ZB-5

Instrument: nt1.i
 Operator: VTS
 Column diameter: 0.25



/chem3/nt1.i/20060804.b/i00803a.d

Analytical Resources, Inc.

YZ 8/4/06

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring
 Data file : /chem3/nt1.i/20060804.b/ic0803b.d
 Lab Smp Id: IC0803B
 Inj Date : 04-AUG-2006 10:49
 Operator : VTS
 Smp Info : IC0803B
 Misc Info : SIM10
 Comment : 1ul Injection
 Method : /chem3/nt1.i/20060804.b/simpna.m
 Meth Date : 04-Aug-2006 14:06 yev
 Cal Date : 04-AUG-2006 10:49
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt1.i
 Quant Type: ISTD
 Cal File: ic0803b.d
 Calibration Sample, Level: 6
 Compound Sublist: pnat4.sub

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 1 Naphthalene-d8	136	6.883	6.883	(1.000)	258376	2.00000	
2 Naphthalene	128	6.907	6.907	(1.003)	1284021	10.0000	9.963
\$ 3 2-Methylnaphthalene-d10	152	7.640	7.640	(1.110)	675627	10.0000	10.15
4 2-Methylnaphthalene	142	7.681	7.681	(1.116)	771283	10.0000	10.11
5 1-Methylnaphthalene	142	7.811	7.811	(1.135)	799638	10.0000	9.988
7 Acenaphthylene	152	8.769	8.769	(0.980)	1171183	10.0000	10.48
* 8 Acenaphthene-d10	164	8.946	8.946	(1.000)	134818	2.00000	
9 Acenaphthene	153	8.987	8.987	(1.005)	689655	10.0000	10.42
10 Dibenzofuran	168	9.176	9.170	(1.026)	1003064	10.0000	10.29
11 Fluorene	166	9.596	9.596	(1.073)	794109	10.0000	10.46
* 15 Phenanthrene-d10	188	10.760	10.760	(1.000)	213897	2.00000	
16 Phenanthrene	178	10.790	10.790	(1.003)	1106661	10.0000	10.08
17 Anthracene	178	10.843	10.843	(1.008)	1148617	10.0000	10.47
19 Fluoranthene	202	12.285	12.279	(1.142)	1105648	10.0000	9.873
20 Pyrene	202	12.569	12.569	(0.893)	1187636	10.0000	9.903
22 Benzo(a)anthracene	228	14.052	14.052	(0.998)	1112932	10.0000	9.895
* 23 Chrysene-d12	240	14.076	14.070	(1.000)	186768	2.00000	
24 Chrysene	228	14.105	14.105	(1.002)	1054391	10.0000	10.16
28 Benzo(b)fluoranthene	252	15.453	15.447	(0.964)	1080977	10.0000	10.06(H)
29 Benzo(k)fluoranthene	252	15.483	15.476	(0.966)	1246392	10.0000	10.88
30 Benzo(a)pyrene	252	15.949	15.938	(0.995)	1054048	10.0000	10.07
* 31 Perylene-d12	264	16.026	16.026	(1.000)	190332	2.00000	
33 Indeno(1,2,3-cd)pyrene	276	18.006	17.988	(1.124)	1234898	10.0000	10.26
\$ 32 Dibenz(a,h)anthracene-d14	292	17.923	17.906	(1.118)	760341	10.0000	10.44
34 Dibenz(a,h)anthracene	278	18.000	17.976	(1.123)	1029433	10.0000	10.47
35 Benzo(g,h,i)perylene	276	18.585	18.562	(1.160)	1029959	10.0000	10.29
48 Biphenyl	154	8.219	8.219	(0.919)	850928	10.0000	10.22

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
===== 49 2,6-Dimethylnaphthalene	156	8.408	8.408	(0.940)	692409	10.0000	10.55
50 2,3,5-Trimethylnaphthalene	170	9.437	9.430	(1.055)	548056	10.0000	10.20
51 1-Methylphenanthrene	192	11.564	11.564	(0.822)	783271	10.0000	10.25
52 Benzo(e)pyrene	252	15.867	15.861	(0.990)	1158385	10.0000	9.998
53 Perylene	252	16.074	16.068	(1.003)	1105890	10.0000	10.17

QC Flag Legend

H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt1.i
 Lab File ID: ic0803b.d
 Lab Smp Id: IC0803B
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt1.i/20060804.b/simpna.m
 Misc Info: SIM10

Calibration Date: 04-AUG-2006
 Calibration Time: 10:25

Level: -
 Sample Type:

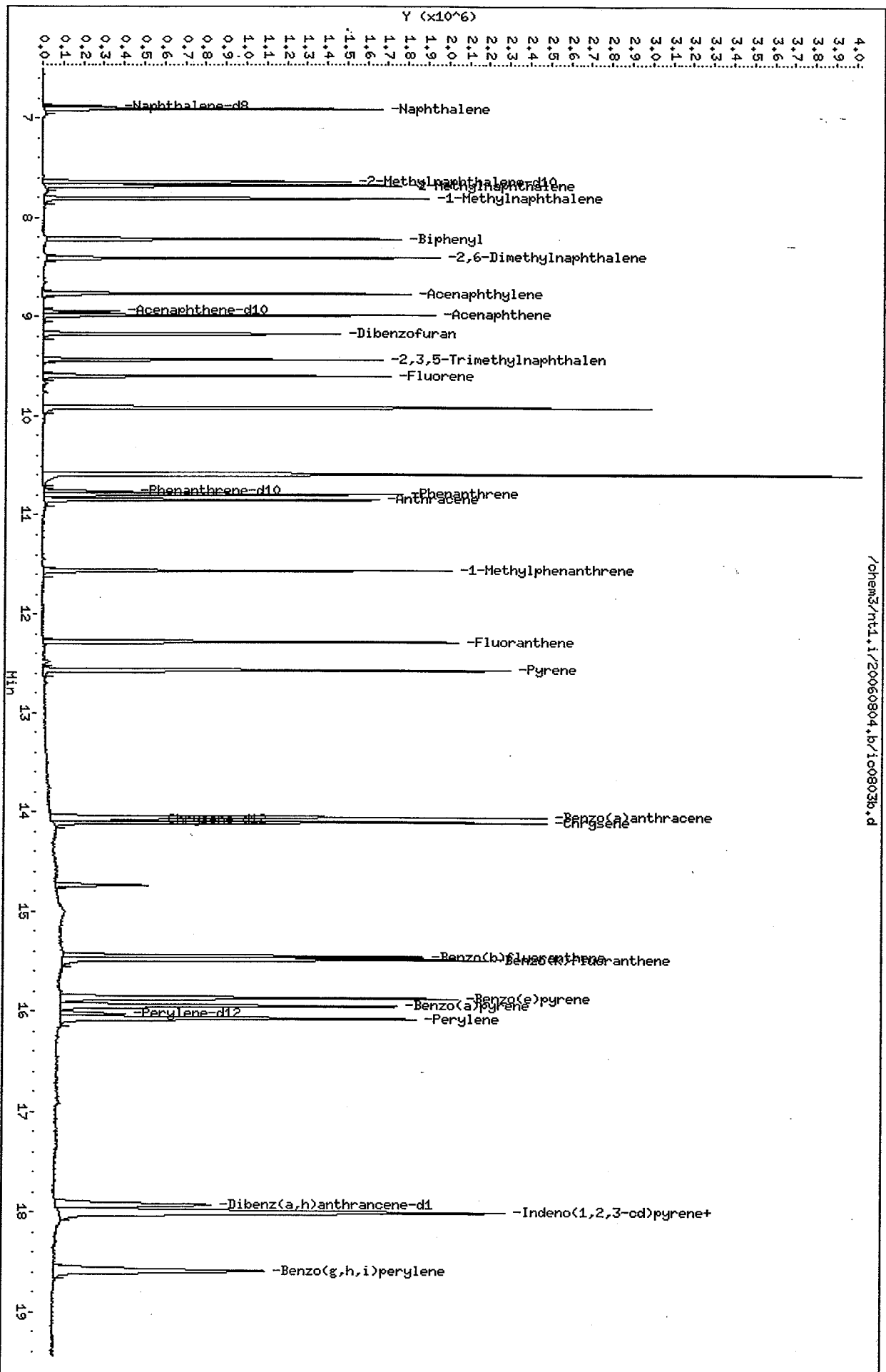
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	222814	111407	445628	258376	15.96
8 Acenaphthene-d10	123591	61796	247182	134818	9.08
15 Phenanthrene-d10	200797	100398	401594	213897	6.52
23 Chrysene-d12	171210	85605	342420	186768	9.09
31 Perylene-d12	183426	91713	366852	190332	3.77

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	6.88	6.38	7.38	6.88	-0.02
8 Acenaphthene-d10	8.95	8.45	9.45	8.95	-0.01
15 Phenanthrene-d10	10.76	10.26	11.26	10.76	-0.01
23 Chrysene-d12	14.08	13.58	14.58	14.08	-0.01
31 Perylene-d12	16.03	15.53	16.53	16.03	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060804.b/ic0803b.d
 Date: 04-AUG-2006 10:49
 Client ID:
 Sample Info: IC0803B
 Column phase: ZB-5

Instrument: nt1.i
 Operator: VTS
 Column diameter: 0.25



YZ 8/11/06

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring
 Data file : /chem3/nt1.i/20060804.b/ic0803c.d
 Lab Smp Id: IC0803C
 Inj Date : 04-AUG-2006 11:14
 Operator : VTS
 Smp Info : IC0803C
 Misc Info : SIM.1
 Comment : 1ul Injection
 Method : /chem3/nt1.i/20060804.b/simpna.m
 Meth Date : 04-Aug-2006 14:06 yev
 Cal Date : 04-AUG-2006 11:14
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt1.i
 Quant Type: ISTD
 Cal File: ic0803c.d
 Calibration Sample, Level: 1
 Compound Sublist: pnat4.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 1 Naphthalene-d8	136		6.884	6.883	(1.000)	240196	2.00000	
2 Naphthalene	128		6.907	6.907	(1.003)	13507	0.10000	0.1127
\$ 3 2-Methylnaphthalene-d10	152		7.640	7.640	(1.110)	6359	0.10000	0.1028
4 2-Methylnaphthalene	142		7.676	7.681	(1.115)	7636	0.10000	0.1076
5 1-Methylnaphthalene	142		7.811	7.811	(1.135)	8404	0.10000	0.1129
7 Acenaphthylene	152		8.769	8.769	(0.980)	11539	0.10000	0.1064
* 8 Acenaphthene-d10	164		8.946	8.946	(1.000)	130781	2.00000	
9 Acenaphthene	153		8.988	8.987	(1.005)	6564	0.10000	0.1022
10 Dibenzofuran	168		9.171	9.170	(1.025)	10022	0.10000	0.1060
11 Fluorene	166		9.596	9.596	(1.073)	7426	0.10000	0.1008
* 15 Phenanthrene-d10	188		10.755	10.760	(1.000)	214296	2.00000	
16 Phenanthrene	178		10.784	10.790	(1.003)	12575	0.10000	0.1143
17 Anthracene	178		10.843	10.843	(1.008)	11931	0.10000	0.1085
19 Fluoranthene	202		12.280	12.279	(1.142)	13115	0.10000	0.1169
20 Pyrene	202		12.569	12.569	(0.893)	13489	0.10000	0.1101
22 Benzo(a)anthracene	228		14.047	14.052	(0.998)	13702	0.10000	0.1193
* 23 Chrysene-d12	240		14.070	14.070	(1.000)	190807	2.00000	
24 Chrysene	228		14.100	14.105	(1.002)	11531	0.10000	0.1088
28 Benzo(b)fluoranthene	252		15.447	15.447	(0.964)	12016	0.10000	0.1112 (H)
29 Benzo(k)fluoranthene	252		15.477	15.476	(0.966)	12161	0.10000	0.1056
30 Benzo(a)pyrene	252		15.938	15.938	(0.995)	13438	0.10000	0.1276
* 31 Perylene-d12	264		16.021	16.026	(1.000)	191469	2.00000	
33 Indeno(1,2,3-cd)pyrene	276		17.983	17.988	(1.122)	13803	0.10000	0.1140
\$ 32 Dibenz(a,h)anthracene-d14	292		17.906	17.906	(1.118)	7843	0.10000	0.1070
34 Dibenz(a,h)anthracene	278		17.977	17.976	(1.122)	10998	0.10000	0.1112
35 Benzo(g,h,i)perylene	276		18.562	18.562	(1.159)	11323	0.10000	0.1125
48 Biphenyl	154		8.213	8.219	(0.918)	8627	0.10000	0.1068

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
49 2,6-Dimethylnaphthalene	156	8.408	8.408	(0.940)	6507	0.10000	0.1022
50 2,3,5-Trimethylnaphthalene	170	9.437	9.430	(1.055)	5521	0.10000	0.1059
51 1-Methylphenanthrene	192	11.558	11.564	(0.821)	7722	0.10000	0.09887
52 Benzo(e)pyrene	252	15.861	15.861	(0.990)	14656	0.10000	0.1257
53 Perylene	252	16.062	16.068	(1.003)	13701	0.10000	0.1252

QC Flag Legend

H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt1.i
 Lab File ID: ic0803c.d
 Lab Smp Id: IC0803C
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt1.i/20060804.b/simpna.m
 Misc Info: SIM.1

Calibration Date: 04-AUG-2006
 Calibration Time: 10:25

Level:
 Sample Type:

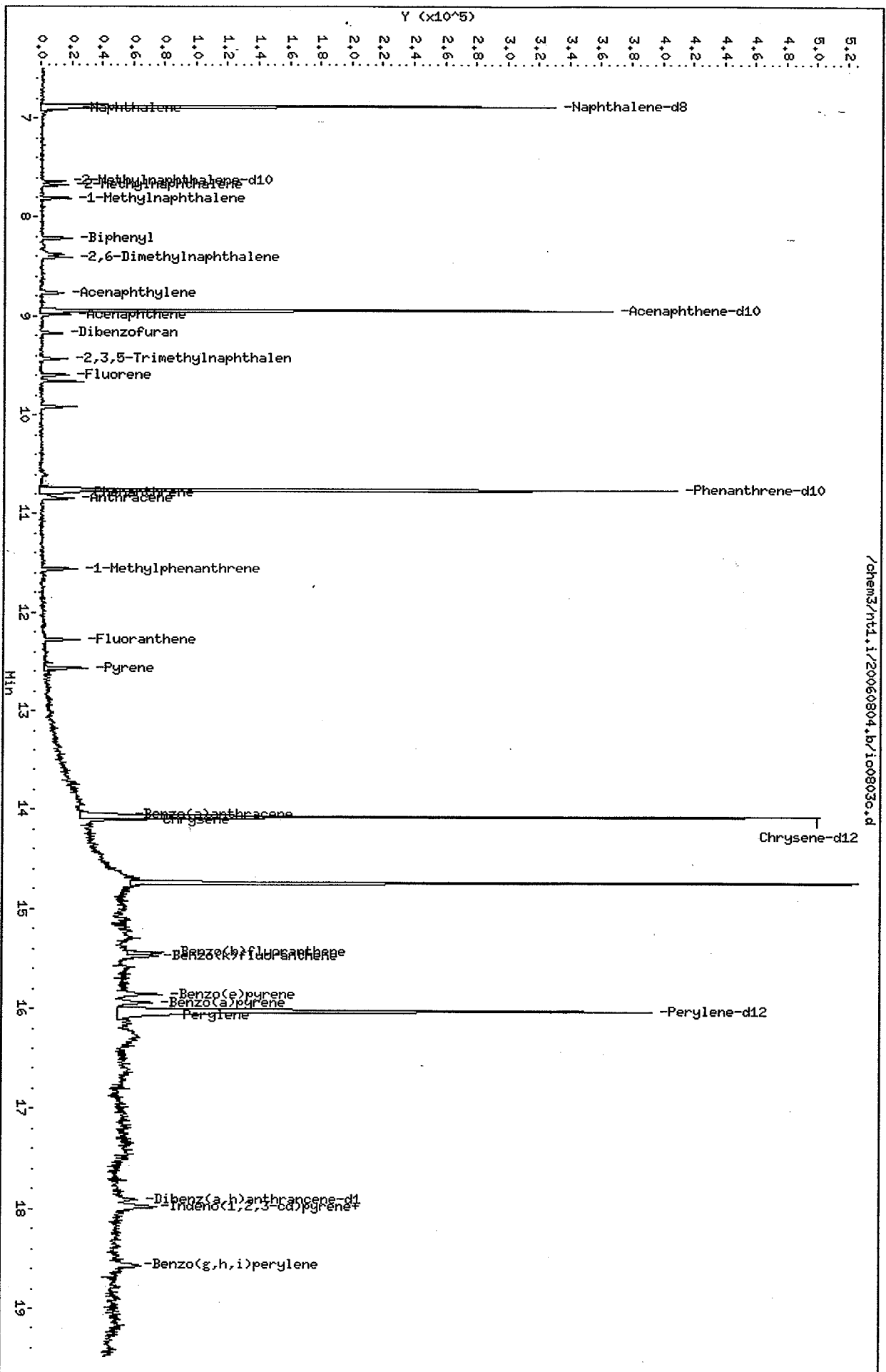
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	222814	111407	445628	240196	7.80
8 Acenaphthene-d10	123591	61796	247182	130781	5.82
15 Phenanthrene-d10	200797	100398	401594	214296	6.72
23 Chrysene-d12	171210	85605	342420	190807	11.45
31 Perylene-d12	183426	91713	366852	191469	4.38

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	6.88	6.38	7.38	6.88	-0.01
8 Acenaphthene-d10	8.95	8.45	9.45	8.95	-0.01
15 Phenanthrene-d10	10.76	10.26	11.26	10.75	-0.06
23 Chrysene-d12	14.08	13.58	14.58	14.07	-0.05
31 Perylene-d12	16.03	15.53	16.53	16.02	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060804.b/i008030.d
 Date: 04-AUG-2006 11:14
 Client ID:
 Sample Info: IC0803C
 Column phase: ZB-5

Instrument: nt1.i
 Operator: VTS
 Column diameter: 0.25



/chem3/nt1.i/20060804.b/i008030.d

YZ 8/4/06

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring
 Data file : /chem3/nt1.i/20060804.b/ic0804d.d
 Lab Smp Id: IC0803D
 Inj Date : 04-AUG-2006 11:39
 Operator : VTS
 Smp Info : IC0803D
 Misc Info : SIM5
 Comment : 1ul Injection
 Method : /chem3/nt1.i/20060804.b/simpna.m
 Meth Date : 04-Aug-2006 14:06 yev
 Cal Date : 04-AUG-2006 11:39
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt1.i
 Quant Type: ISTD
 Cal File: ic0804d.d
 Calibration Sample, Level: 5
 Compound Sublist: pnat4.sub

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 1 Naphthalene-d8	136		6.883	6.883	(1.000)	245793	2.00000		
2 Naphthalene	128		6.907	6.907	(1.003)	615146	5.00000	5.017	
§ 3 2-Methylnaphthalene-d10	152		7.640	7.640	(1.110)	331961	5.00000	5.244	
4 2-Methylnaphthalene	142		7.681	7.681	(1.116)	364409	5.00000	5.019	
5 1-Methylnaphthalene	142		7.811	7.811	(1.135)	387701	5.00000	5.091	
7 Acenaphthylene	152		8.769	8.769	(0.980)	575026	5.00000	5.146	
* 8 Acenaphthene-d10	164		8.946	8.946	(1.000)	134787	2.00000		
9 Acenaphthene	153		8.987	8.987	(1.005)	338418	5.00000	5.113	
10 Dibenzofuran	168		9.176	9.170	(1.026)	500480	5.00000	5.134	
11 Fluorene	166		9.596	9.596	(1.073)	394771	5.00000	5.202	
* 15 Phenanthrene-d10	188		10.760	10.760	(1.000)	216386	2.00000		
16 Phenanthrene	178		10.790	10.790	(1.003)	552843	5.00000	4.978	
17 Anthracene	178		10.843	10.843	(1.008)	577287	5.00000	5.201	
19 Fluoranthene	202		12.279	12.279	(1.141)	564245	5.00000	4.981	
20 Pyrene	202		12.569	12.569	(0.893)	606835	5.00000	5.151	
22 Benzo(a)anthracene	228		14.052	14.052	(0.999)	556548	5.00000	5.037	
* 23 Chrysene-d12	240		14.070	14.070	(1.000)	183473	2.00000		
24 Chrysene	228		14.105	14.105	(1.003)	521133	5.00000	5.114	
28 Benzo(b)fluoranthene	252		15.447	15.447	(0.964)	574952	5.00000	5.184 (H)	
29 Benzo(k)fluoranthene	252		15.477	15.476	(0.966)	587760	5.00000	4.971	
30 Benzo(a)pyrene	252		15.944	15.938	(0.995)	524018	5.00000	4.849	
* 31 Perylene-d12	264		16.026	16.026	(1.000)	196521	2.00000		
33 Indeno(1,2,3-cd)pyrene	276		17.994	17.988	(1.123)	634963	5.00000	5.109	
§ 32 Dibenz(a,h)anthracene-d14	292		17.918	17.906	(1.118)	392891	5.00000	5.224	
34 Dibenz(a,h)anthracene	278		17.988	17.976	(1.122)	534480	5.00000	5.264	
35 Benzo(g,h,i)perylene	276		18.579	18.562	(1.159)	541568	5.00000	5.242	
48 Biphenyl	154		8.219	8.219	(0.919)	429172	5.00000	5.153	

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
49 2,6-Dimethylnaphthalene	156	8.408	8.408	(0.940)	339145	5.00000	5.171
50 2,3,5-Trimethylnaphthalene	170	9.437	9.430	(1.055)	280157	5.00000	5.215
51 1-Methylphenanthrene	192	11.564	11.564	(0.822)	408278	5.00000	5.436
52 Benzo(e)pyrene	252	15.867	15.861	(0.990)	590838	5.00000	4.939
53 Perylene	252	16.068	16.068	(1.003)	569254	5.00000	5.068

QC Flag Legend

H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt1.i
 Lab File ID: ic0804d.d
 Lab Smp Id: IC0803D
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt1.i/20060804.b/simpna.m
 Misc Info: SIM5

Calibration Date: 04-AUG-2006
 Calibration Time: 10:25
 Level: _
 Sample Type:

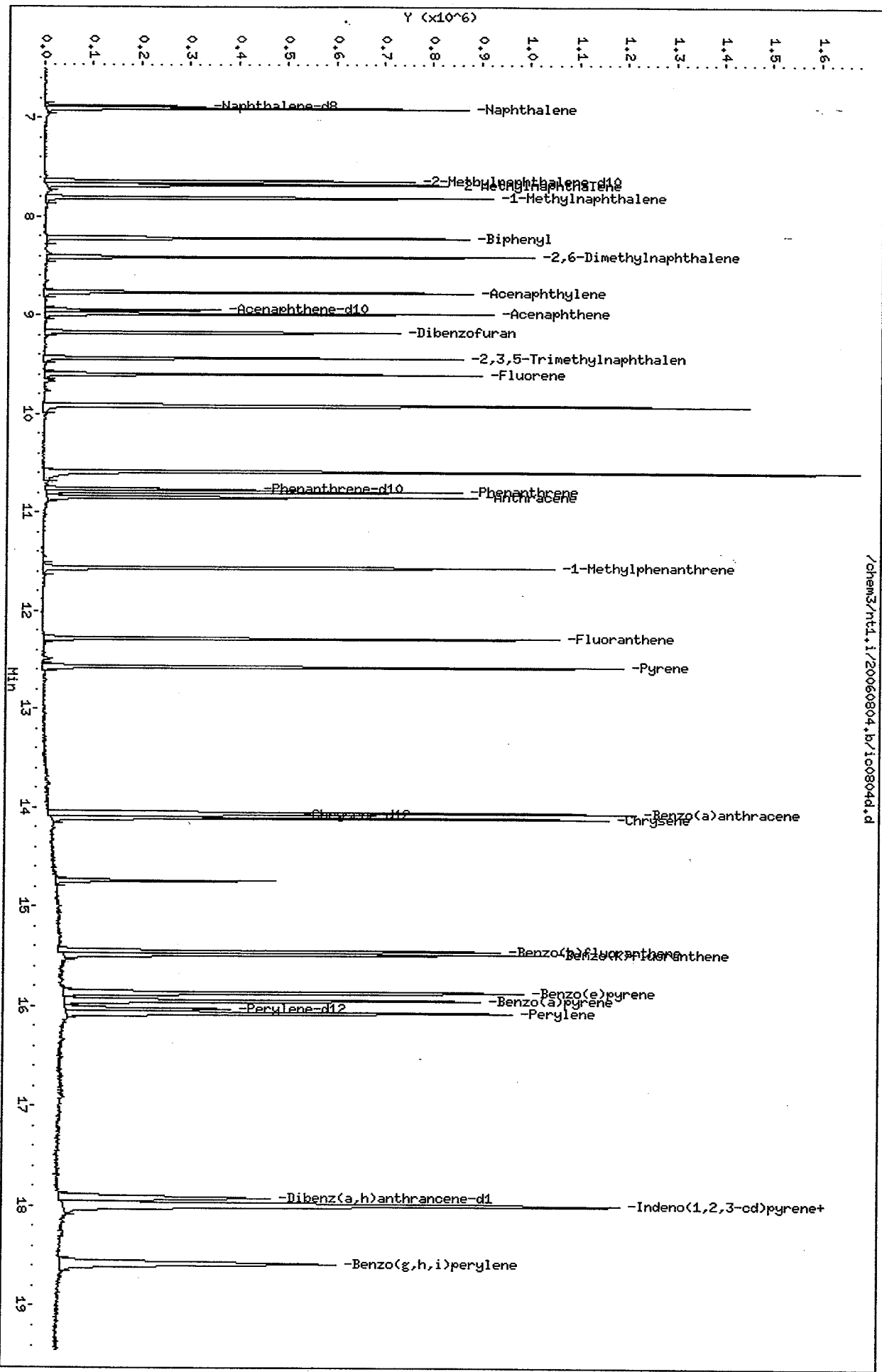
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	222814	111407	445628	245793	10.31
8 Acenaphthene-d10	123591	61796	247182	134787	9.06
15 Phenanthrene-d10	200797	100398	401594	216386	7.76
23 Chrysene-d12	171210	85605	342420	183473	7.16
31 Perylene-d12	183426	91713	366852	196521	7.14

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	6.88	6.38	7.38	6.88	-0.02
8 Acenaphthene-d10	8.95	8.45	9.45	8.95	-0.01
15 Phenanthrene-d10	10.76	10.26	11.26	10.76	-0.01
23 Chrysene-d12	14.08	13.58	14.58	14.07	-0.05
31 Perylene-d12	16.03	15.53	16.53	16.03	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060804.b/1c0804d.d
 Date: 04-AUG-2006 11:39
 Client ID:
 Sample Info: 1C0803D
 Column phase: ZB-5

Instrument: nt1.i
 Operator: VTS
 Column diameter: 0.25



YZ 8/4/06

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring
 Data file : /chem3/nt1.i/20060804.b/ic0805e.d
 Lab Smp Id: IC0803E
 Inj Date : 04-AUG-2006 12:04
 Operator : VTS
 Smp Info : IC0803E
 Misc Info : SIM1
 Comment : 1ul Injection
 Method : /chem3/nt1.i/20060804.b/simpna.m
 Meth Date : 04-Aug-2006 14:06 yev
 Cal Date : 04-AUG-2006 12:04
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt1.i
 Quant Type: ISTD
 Cal File: ic0805e.d
 Calibration Sample, Level: 3
 Compound Sublist: pnat4.sub

Compounds	QUANT	SIG	AMOUNTS					
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
* 1 Naphthalene-d8	136		6.883	6.883	(1.000)	305770	2.00000	
2 Naphthalene	128		6.907	6.907	(1.003)	137362	1.00000	0.9006
§ 3 2-Methylnaphthalene-d10	152		7.639	7.640	(1.110)	72420	1.00000	0.9195
4 2-Methylnaphthalene	142		7.681	7.681	(1.116)	82089	1.00000	0.9089
5 1-Methylnaphthalene	142		7.811	7.811	(1.135)	87654	1.00000	0.9252
7 Acenaphthylene	152		8.768	8.769	(0.980)	125504	1.00000	0.9112
* 8 Acenaphthene-d10	164		8.946	8.946	(1.000)	166121	2.00000	
9 Acenaphthene	153		8.987	8.987	(1.005)	74583	1.00000	0.9144
10 Dibenzofuran	168		9.176	9.170	(1.026)	110398	1.00000	0.9189
11 Fluorene	166		9.596	9.596	(1.073)	85264	1.00000	0.9116
* 15 Phenanthrene-d10	188		10.760	10.760	(1.000)	269899	2.00000	
16 Phenanthrene	178		10.790	10.790	(1.003)	125375	1.00000	0.9050
17 Anthracene	178		10.843	10.843	(1.008)	128053	1.00000	0.9250
19 Fluoranthene	202		12.279	12.279	(1.141)	131192	1.00000	0.9285
20 Pyrene	202		12.568	12.569	(0.893)	138272	1.00000	0.9129
22 Benzo(a)anthracene	228		14.052	14.052	(0.999)	127937	1.00000	0.9006
* 23 Chrysene-d12	240		14.070	14.070	(1.000)	235891	2.00000	
24 Chrysene	228		14.105	14.105	(1.003)	124625	1.00000	0.9512
28 Benzo(b)fluoranthene	252		15.447	15.447	(0.964)	119023	1.00000	0.8800
29 Benzo(k)fluoranthene	252		15.476	15.476	(0.966)	137439	1.00000	0.9531
30 Benzo(a)pyrene	252		15.943	15.938	(0.995)	115475	1.00000	0.8762
* 31 Perylene-d12	264		16.026	16.026	(1.000)	239658	2.00000	
33 Indeno(1,2,3-cd)pyrene	276		17.982	17.988	(1.122)	134700	1.00000	0.8887
§ 32 Dibenz(a,h)anthracene-d14	292		17.911	17.906	(1.118)	81227	1.00000	0.8856
34 Dibenz(a,h)anthracene	278		17.982	17.976	(1.122)	107839	1.00000	0.8710
35 Benzo(g,h,i)perylene	276		18.567	18.562	(1.159)	110391	1.00000	0.8762
48 Biphenyl	154		8.219	8.219	(0.919)	96852	1.00000	0.9436

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
49 2,6-Dimethylnaphthalene	156	8.408	8.408	(0.940)	75459	1.00000	0.9335
50 2,3,5-Trimethylnaphthalene	170	9.436	9.430	(1.055)	60932	1.00000	0.9202
51 1-Methylphenanthrene	192	11.564	11.564	(0.822)	89683	1.00000	0.9288
52 Benzo(e)pyrene	252	15.860	15.861	(0.990)	129005	1.00000	0.8843
53 Perylene	252	16.067	16.068	(1.003)	115802	1.00000	0.8454

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0805e.d
Lab Smp Id: IC0803E
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060804.b/simpna.m
Misc Info: SIM1

Calibration Date: 04-AUG-2006
Calibration Time: 10:25

Level: -
Sample Type:

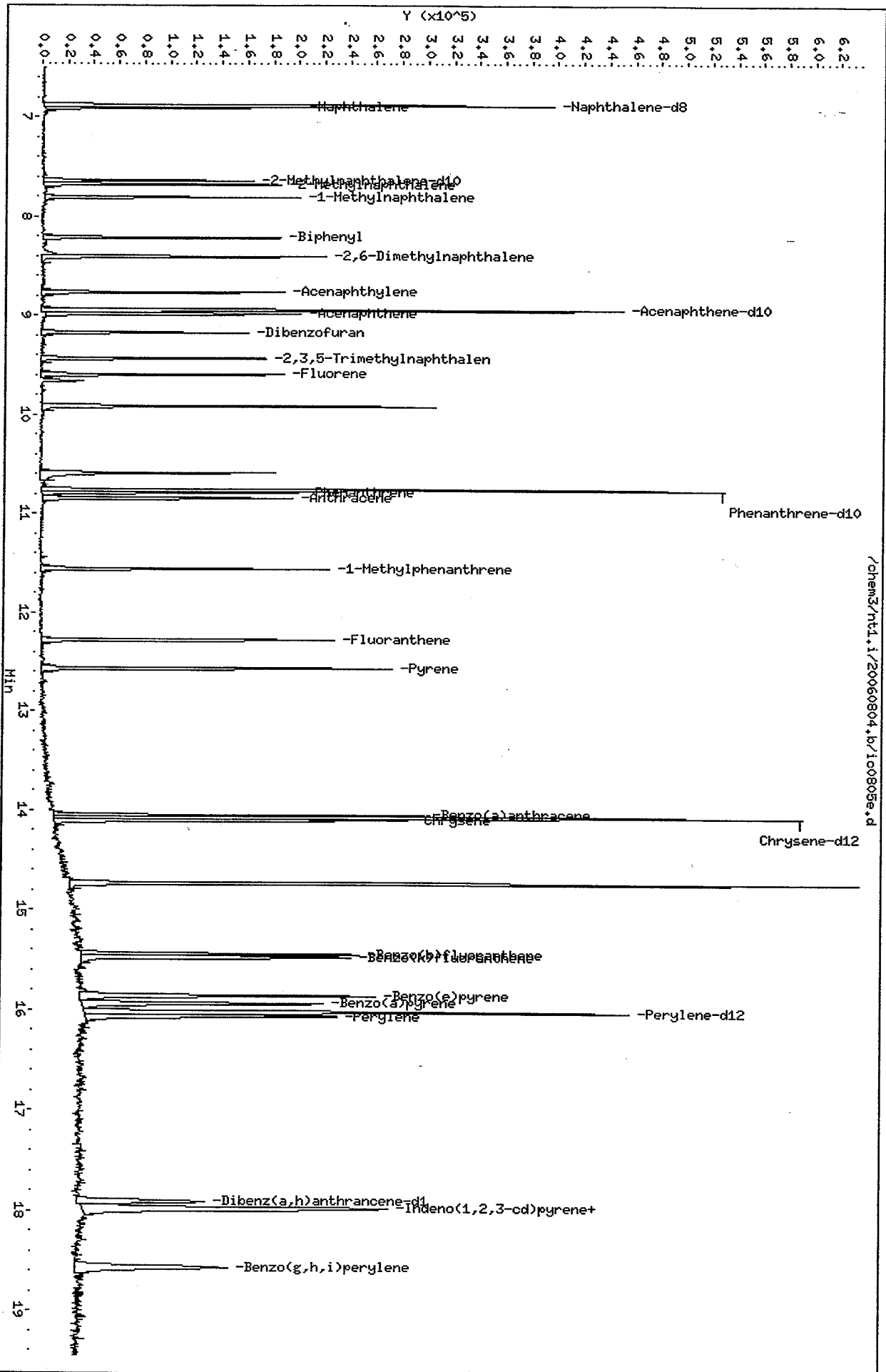
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	222814	111407	445628	305770	37.23
8 Acenaphthene-d10	123591	61796	247182	166121	34.41
15 Phenanthrene-d10	200797	100398	401594	269899	34.41
23 Chrysene-d12	171210	85605	342420	235891	37.78
31 Perylene-d12	183426	91713	366852	239658	30.66

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	6.88	6.38	7.38	6.88	-0.02
8 Acenaphthene-d10	8.95	8.45	9.45	8.95	-0.02
15 Phenanthrene-d10	10.76	10.26	11.26	10.76	-0.02
23 Chrysene-d12	14.08	13.58	14.58	14.07	-0.05
31 Perylene-d12	16.03	15.53	16.53	16.03	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.1/20060804.b/100805e.d
 Date: 04-AUG-2006 12:04
 Client ID:
 Sample Info: 100803E
 Column phase: ZB-5

Instrument: nt1.1
 Operator: VTS
 Column diameter: 0.25



Y2.8/4/06

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring
 Data file : /chem3/nt1.i/20060804.b/ic0806f.d
 Lab Smp Id: IC0803F
 Inj Date : 04-AUG-2006 12:28
 Operator : VTS
 Smp Info : IC0803F
 Misc Info : SIM0.5
 Comment : 1ul Injection
 Method : /chem3/nt1.i/20060804.b/simpna.m
 Meth Date : 04-Aug-2006 14:06 yev
 Cal Date : 04-AUG-2006 12:28
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt1.i
 Quant Type: ISTD
 Cal File: ic0806f.d
 Calibration Sample, Level: 2
 Compound Sublist: pnat4.sub

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 1 Naphthalene-d8	136		6.883	6.883	(1.000)	245095	2.00000		
2 Naphthalene	128		6.907	6.907	(1.003)	61844	0.50000	0.5059	
\$ 3 2-Methylnaphthalene-d10	152		7.640	7.640	(1.110)	31744	0.50000	0.5028	
4 2-Methylnaphthalene	142		7.681	7.681	(1.116)	37667	0.50000	0.5203	
5 1-Methylnaphthalene	142		7.811	7.811	(1.135)	36833	0.50000	0.4850	
7 Acenaphthylene	152		8.769	8.769	(0.980)	53344	0.50000	0.4883	
* 8 Acenaphthene-d10	164		8.946	8.946	(1.000)	131758	2.00000		
9 Acenaphthene	153		8.987	8.987	(1.005)	33375	0.50000	0.5159	
10 Dibenzofuran	168		9.170	9.170	(1.025)	48004	0.50000	0.5037	
11 Fluorene	166		9.596	9.596	(1.073)	38860	0.50000	0.5238	
* 15 Phenanthrene-d10	188		10.760	10.760	(1.000)	219114	2.00000		
16 Phenanthrene	178		10.790	10.790	(1.003)	57129	0.50000	0.5080	
17 Anthracene	178		10.843	10.843	(1.008)	53530	0.50000	0.4763	
19 Fluoranthene	202		12.279	12.279	(1.141)	56542	0.50000	0.4929	
20 Pyrene	202		12.569	12.569	(0.893)	62209	0.50000	0.5059	
22 Benzo(a)anthracene	228		14.052	14.052	(0.999)	55166	0.50000	0.4783	
* 23 Chrysene-d12	240		14.070	14.070	(1.000)	191517	2.00000		
24 Chrysene	228		14.105	14.105	(1.003)	51039	0.50000	0.4798	
28 Benzo(b)fluoranthene	252		15.447	15.447	(0.964)	52637	0.50000	0.4724	
29 Benzo(k)fluoranthene	252		15.476	15.476	(0.966)	60702	0.50000	0.5110	
30 Benzo(a)pyrene	252		15.938	15.938	(0.994)	51669	0.50000	0.4759	
* 31 Perylene-d12	264		16.026	16.026	(1.000)	197414	2.00000		
33 Indeno(1,2,3-cd)pyrene	276		17.988	17.988	(1.122)	59859	0.50000	0.4795	
\$ 32 Dibenz(a,h)anthracene-d14	292		17.906	17.906	(1.117)	36494	0.50000	0.4830	
34 Dibenz(a,h)anthracene	278		17.976	17.976	(1.122)	48537	0.50000	0.4759	
35 Benzo(g,h,i)perylene	276		18.562	18.562	(1.158)	49724	0.50000	0.4791	
48 Biphenyl	154		8.219	8.219	(0.919)	40581	0.50000	0.4985	

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
49 2,6-Dimethylnaphthalene	156	8.408	8.408	(0.940)	32039	0.50000	0.4997
50 2,3,5-Trimethylnaphthalene	170	9.430	9.430	(1.054)	26081	0.50000	0.4966
51 1-Methylphenanthrene	192	11.564	11.564	(0.822)	39611	0.50000	0.5053
52 Benzo(e)pyrene	252	15.861	15.861	(0.990)	55863	0.50000	0.4649
53 Perylene	252	16.068	16.068	(1.003)	53834	0.50000	0.4771

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt1.i
 Lab File ID: ic0806f.d
 Lab Smp Id: IC0803F
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt1.i/20060804.b/simpna.m
 Misc Info: SIM0.5

Calibration Date: 04-AUG-2006
 Calibration Time: 10:25
 Level: -
 Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	222814	111407	445628	245095	10.00
8 Acenaphthene-d10	123591	61796	247182	131758	6.61
15 Phenanthrene-d10	200797	100398	401594	219114	9.12
23 Chrysene-d12	171210	85605	342420	191517	11.86
31 Perylene-d12	183426	91713	366852	197414	7.63

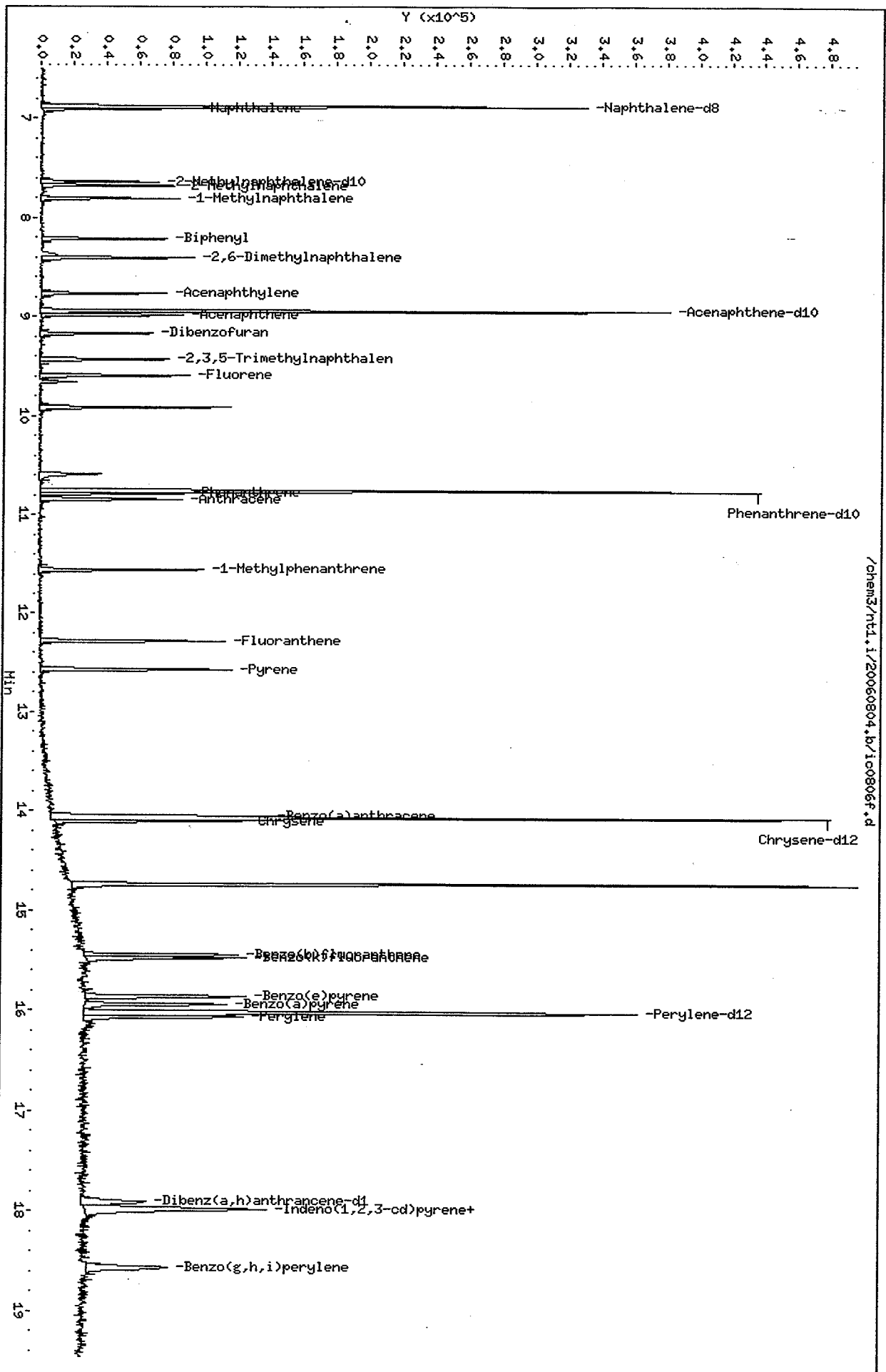
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	6.88	6.38	7.38	6.88	-0.02
8 Acenaphthene-d10	8.95	8.45	9.45	8.95	-0.02
15 Phenanthrene-d10	10.76	10.26	11.26	10.76	-0.01
23 Chrysene-d12	14.08	13.58	14.58	14.07	-0.05
31 Perylene-d12	16.03	15.53	16.53	16.03	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060804.b/1c0806f.d
Date: 04-AUG-2006 12:28
Client ID:
Sample Info: 1C0803F

Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 8.10.2006 Analysis: SimpNA Analyst: VTS

GC Program: SimpNA Column No: 97876 Column Type: 2B-5

Instrument Tune (.U or .CT.): 1216.U EM Voltage: 1700

Calibration File: df0810 Curve Date: 8.4.2006

IS/SS: (1408-03) Ical/Ccal: (1409-1)(1416-02) LCS/ICV: _____

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.i/20060810.b

Time	Filename	LabID	ClientId	DF																
1	1308	df0810.d	DF0810		1		NO	ISTDS	FOUND											
2	1323	cc0810.d	CC0810		1		6.87	253209		8.94	122198		10.75	181565		14.05	143956		16.00	157395
3	1348	icv0810.d	ICV0810		1		6.87	230120		8.93	110612		10.74	164662		14.06	137716		16.00	146876
4	1413	jr96mb.d	JR96MBS1	JR96MBS1	1		6.87	301648		8.94	140733		10.74	216704		14.05	173072		16.00	168133
5	1438	jr96sb.d	JR96LCSS1	JR96LCSS1	1		6.87	241548		8.93	116346		10.74	176458		14.06	142049		16.00	143766
6	1502	jr96sbd.d	JR96LCSDS1	JR96LCSDS1	1		6.87	229261		8.93	109671		10.74	165836		14.05	132048		16.00	131144
7	1527	jr96a.d	JR96A	Gun Club-1-060804	1		6.87	268597		8.93	128590		10.74	184360		14.06	143426		16.00	148361
8	1552	jr96b.d	JR96B	Gun Club-2-060804	1		6.87	261072		8.93	128045		10.74	185652		14.06	152418		16.00	148662
9	1617	jr96c.d	JR96C	Gun Club-3-060804	1		6.87	257918		8.93	128468		10.74	183380		14.06	171873		16.01	187922
10	1642	jr96d.d	JR96D	Gun Club-C-060804	1		6.87	267202		8.93	126123		10.75	189804		14.07	194349		16.03	203611
11	1706	jq36edl.d	JQ36EDL	T4-S3-04-A	20		6.87	267048		8.94	128258		10.74	196888		14.06	187234		16.00	228685
12	1731	jq36f.d	JQ36F	T4-S3-04-B	1		6.87	311331		8.93	158607		10.75	240342		14.06	211477		16.01	236532
13	1756	jq36g.d	JQ36G	T4-S3-04-C	1		6.87	289236		8.93	146350		10.75	226319		14.06	191972		16.01	220413
14	1821	jq36h.d	JQ36H	T4-S3-04-D	1		6.87	281207		8.93	139188		10.75	210504		14.06	182315		16.00	211835
15	1845	jq36i.d	JQ36I	T4-WB-01	1		6.87	282183		8.94	141073		10.75	214898		14.06	207156		16.02	228634
16	1910	jq36j.d	JQ36J	T4-WB-02	1		6.87	300486		8.93	149361		10.75	228372		14.06	218919		16.01	227488
17	1935	jq36k.d	JQ36K	T4-WB-03	1		6.87	291689		8.93	148728		10.75	228935		14.06	221757		16.01	231164
18	2000	jq36l.d	JQ36L	T4-WB-04	1		6.87	280878		8.93	145849		10.75	222223		14.06	218134		16.01	226726
19	2024	jq35mbr.d	JQ35MBS2	JQ35MBS2	1		6.87	254449		8.93	122720		10.74	185475		14.06	162567		16.00	171882
20	2049	jq35sbr.d	JQ35LCSS2	JQ35LCSS2	1		6.87	257958		8.94	124932		10.74	181087		14.06	157919		16.00	166898
21	2114	jq35ire.d	JQ35I	T4-S3-05-F	10		6.87	221931		8.94	107051		10.74	161206		14.06	161363		16.00	170272

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC0816
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Handwritten: VTS
8.11.2006

Date : 10-AUG-2006 13:08

Client ID:

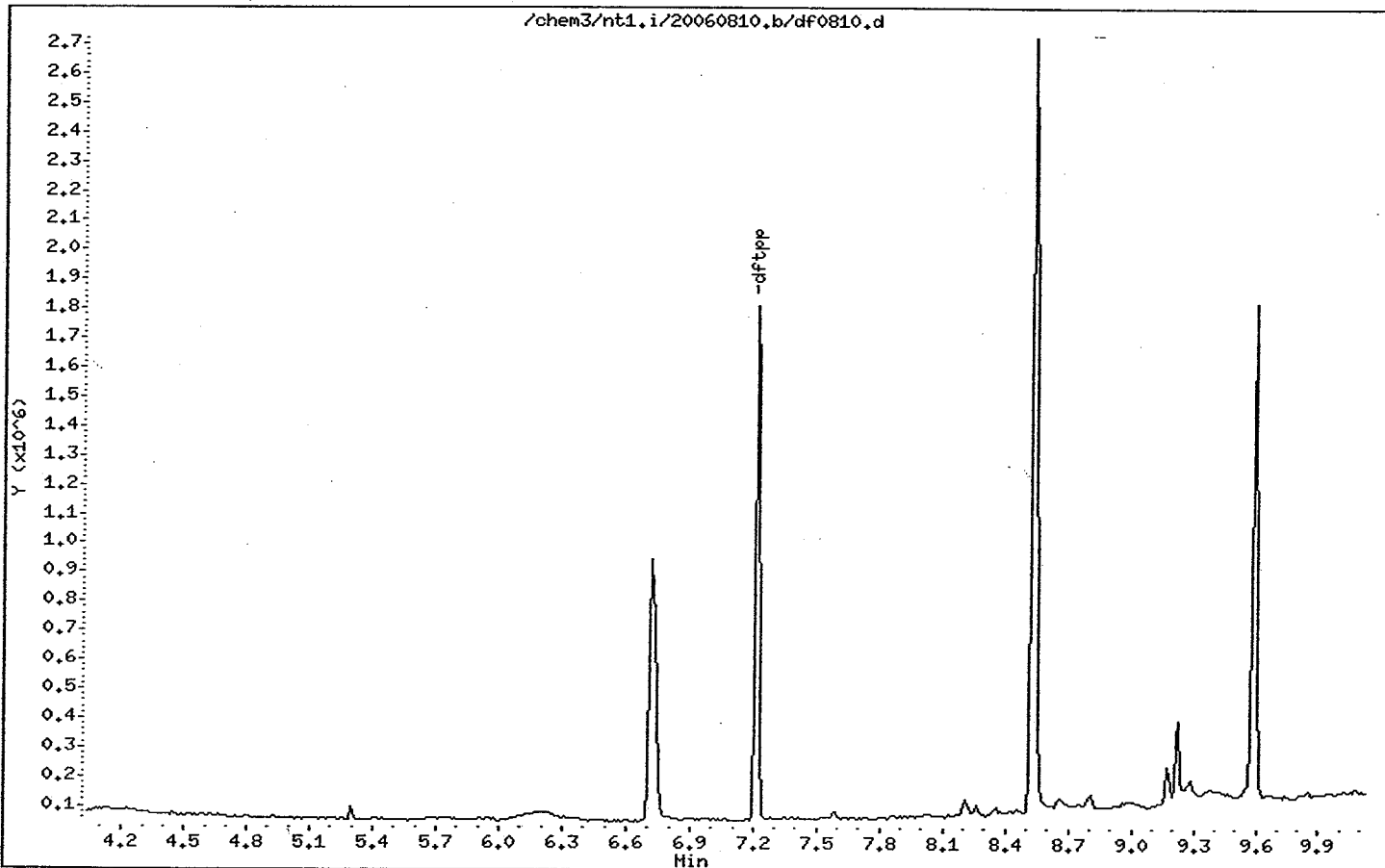
Instrument: nt1.i

Sample Info: DF0810

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25



Date : 10-AUG-2006 13:08

Client ID:

Instrument: nt1.i

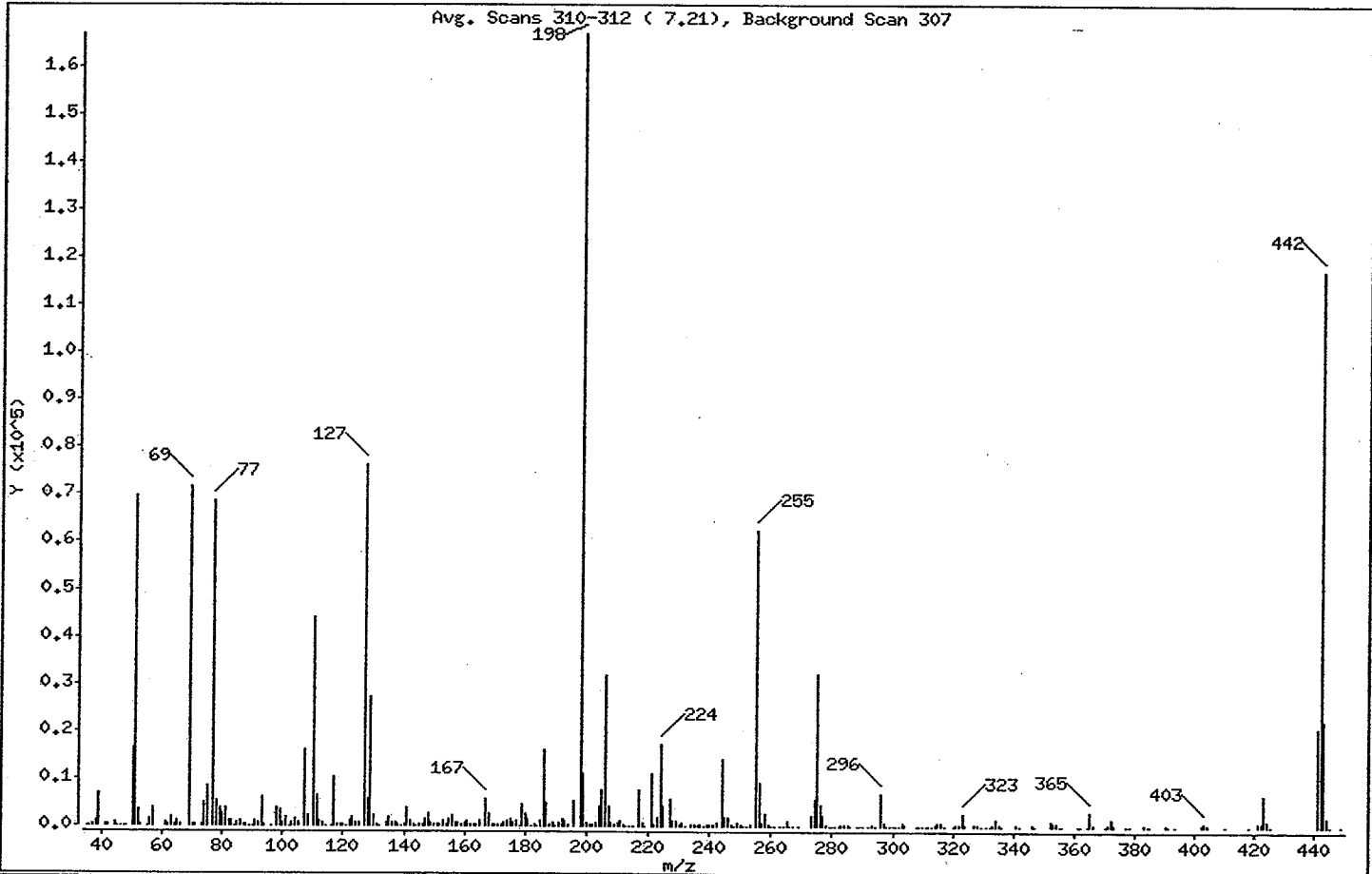
Sample Info: DF0810

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	41.73
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	42.91
70	Less than 2.00% of mass 69	0.32 (0.74)
127	25.00 - 75.00% of mass 198	45.66
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.74
275	10.00 - 30.00% of mass 198	19.35
365	Greater than 0.75% of mass 198	1.83
441	Present, but less than mass 442	12.51
442	40.00 - 110.00% of mass 198	70.22
443	15.00 - 24.00% of mass 442	13.34 (19.00)

Date : 10-AUG-2006 13:08

Client ID:

Instrument: nt1.i

Sample Info: DF0810

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0810.d

Spectrum: Avg. Scans 310-312 (7.21), Background Scan 307

Location of Maximum: 198.00

Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	98	128.00	5803	208.00	888	298.00	43
36.00	52	129.00	27200	209.00	266	299.00	58
37.00	319	130.00	2360	210.00	860	300.00	37
38.00	991	131.00	416	211.00	1314	301.00	154
39.00	6882	132.00	40	212.00	212	302.00	60
41.00	290	134.00	691	213.00	149	303.00	814
42.00	319	135.00	1946	214.00	85	304.00	268
44.00	717	136.00	825	215.00	166	308.00	156
45.00	153	137.00	827	217.00	7819	309.00	92
46.00	115	138.00	327	218.00	865	310.00	107
47.00	3	139.00	106	219.00	38	311.00	47
48.00	47	140.00	352	221.00	11248	312.00	40
50.00	16472	141.00	3765	222.00	526	313.00	38
51.00	69592	142.00	1062	223.00	1822	314.00	365
52.00	3635	143.00	566	224.00	17296	315.00	728
53.00	234	144.00	180	225.00	4055	316.00	576
55.00	173	145.00	304	227.00	5726	317.00	62
56.00	1685	146.00	308	228.00	1036	320.00	56
57.00	3722	147.00	1424	229.00	1216	321.00	332
61.00	793	148.00	2805	230.00	238	322.00	242
62.00	460	149.00	864	231.00	791	323.00	2863
63.00	2020	150.00	399	232.00	177	324.00	445
64.00	199	151.00	508	234.00	470	327.00	527
65.00	1010	152.00	197	235.00	501	328.00	320
66.00	384	153.00	1020	236.00	336	329.00	92
69.00	71544	154.00	525	237.00	410	331.00	35
70.00	531	155.00	1533	238.00	6	332.00	124
71.00	354	156.00	2436	239.00	441	333.00	305
73.00	428	157.00	603	240.00	333	334.00	1522
74.00	5113	158.00	604	241.00	548	335.00	378
75.00	8347	159.00	435	242.00	729	336.00	128
77.00	68432	160.00	934	244.00	14009	341.00	352
78.00	5351	161.00	1329	245.00	1944	342.00	128
79.00	3771	162.00	284	246.00	2047	346.00	457
80.00	2668	163.00	225	247.00	238	347.00	162

Date : 10-AUG-2006 13:08

Client ID:

Instrument: nt1.i

Sample Info: DF0810

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0810.d

Spectrum: Avg. Scans 310-312 (7.21), Background Scan 307

Location of Maximum: 198.00

Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	3966	164.00	201	248.00	112	352.00	1040
82.00	978	165.00	1100	249.00	597	353.00	759
83.00	992	167.00	5837	250.00	247	354.00	724
84.00	175	168.00	2718	251.00	152	355.00	174
85.00	779	169.00	486	252.00	129	356.00	36
86.00	1316	170.00	277	253.00	379	361.00	34
87.00	421	171.00	268	255.00	62504	362.00	41
88.00	277	172.00	512	256.00	9077	364.00	89
89.00	140	173.00	633	257.00	827	365.00	3056
90.00	37	174.00	1180	258.00	2646	366.00	375
91.00	1070	175.00	1711	259.00	523	370.00	40
92.00	874	176.00	867	260.00	30	371.00	225
93.00	6164	177.00	1031	261.00	102	372.00	1675
94.00	414	178.00	113	263.00	60	373.00	407
96.00	169	179.00	4611	264.00	153	377.00	40
98.00	3956	180.00	2752	265.00	1340	378.00	50
99.00	3447	181.00	1518	266.00	38	383.00	343
100.00	613	182.00	120	267.00	153	384.00	146
101.00	1996	183.00	348	269.00	112	385.00	38
102.00	176	184.00	52	273.00	2174	390.00	200
103.00	843	185.00	968	274.00	5598	391.00	169
104.00	1584	186.00	16080	275.00	32264	393.00	49
105.00	950	187.00	4997	276.00	4424	402.00	518
107.00	16066	188.00	473	277.00	2170	403.00	825
108.00	2370	189.00	680	278.00	405	404.00	293
110.00	44248	190.00	134	279.00	58	410.00	68
111.00	6597	191.00	649	280.00	84	418.00	40
112.00	988	192.00	1535	281.00	165	421.00	695
113.00	598	193.00	1261	282.00	51	422.00	858
114.00	140	194.00	327	283.00	265	423.00	6455
116.00	143	196.00	5444	284.00	231	424.00	1199
117.00	10341	198.00	166720	285.00	402	425.00	76
118.00	315	199.00	11234	286.00	143	441.00	20864
119.00	540	200.00	932	288.00	114	442.00	117096
120.00	283	201.00	379	289.00	133	443.00	22248

Date : 10-AUG-2006 13:08

Client ID:

Instrument: nt1.i

Sample Info: DF0810

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0810.d

Spectrum: Avg. Scans 310-312 (7.21), Background Scan 307

Location of Maximum: 198.00

Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
121.00	94	202.00	214	290.00	86	444.00	1940
122.00	1032	203.00	769	292.00	179	445.00	53
123.00	1797	204.00	4348	293.00	417	449.00	37
124.00	806	205.00	7645	294.00	120		
125.00	896	206.00	31816	296.00	6736		
127.00	76136	207.00	4081	297.00	811		

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060810.b/cc0810.d

Lab Smp Id: CC0810

Inj Date : 10-AUG-2006 13:23

Operator : VTS

Inst ID: nt1.i

Smp Info : CC0810

Misc Info :

Comment : 1ul Injection

Method : /chem3/nt1.i/20060810.b/simpna.m

Meth Date : 10-Aug-2006 14:25 van

Quant Type: ISTD

Cal Date : 04-AUG-2006 12:28

Cal File: ic0806f.d

Als bottle: 5

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: pnat4.sub

Target Version: 3.50

Compounds	QUANT SIG			AMOUNTS		
	MASS	RT	EXP RT REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 1 Naphthalene-d8	136	6.874	6.874 (1.000)	253209	2.00000	
2 Naphthalene	128	6.898	6.898 (1.003)	298106	2.50000	2.360
\$ 3 2-Methylnaphthalene-d10	152	7.630	7.630 (1.110)	146034	2.50000	2.239
4 2-Methylnaphthalene	142	7.666	7.666 (1.115)	168022	2.50000	2.246
5 1-Methylnaphthalene	142	7.796	7.796 (1.134)	168254	2.50000	2.145
7 Acenaphthylene	152	8.753	8.753 (0.979)	247823	2.50000	2.446
* 8 Acenaphthene-d10	164	8.937	8.937 (1.000)	122198	2.00000	
9 Acenaphthene	153	8.972	8.972 (1.004)	143194	2.50000	2.387
10 Dibenzofuran	168	9.161	9.161 (1.025)	205725	2.50000	2.328
11 Fluorene	166	9.587	9.587 (1.073)	164339	2.50000	2.389
* 15 Phenanthrene-d10	188	10.745	10.745 (1.000)	181565	2.00000	
16 Phenanthrene	178	10.775	10.775 (1.003)	221931	2.50000	2.381
17 Anthracene	178	10.828	10.828 (1.008)	221577	2.50000	2.379
19 Fluoranthene	202	12.270	12.270 (1.142)	217386	2.50000	2.287
20 Pyrene	202	12.554	12.554 (0.893)	232447	2.50000	2.515
22 Benzo(a)anthracene	228	14.037	14.037 (0.999)	204443	2.50000	2.358
* 23 Chrysene-d12	240	14.055	14.055 (1.000)	143956	2.00000	
24 Chrysene	228	14.090	14.090 (1.003)	189968	2.50000	2.376
28 Benzo(b)fluoranthene	252	15.426	15.426 (0.964)	199182	2.50000	2.242
29 Benzo(k)fluoranthene	252	15.455	15.455 (0.966)	242053	2.50000	2.556
30 Benzo(a)pyrene	252	15.916	15.916 (0.995)	191245	2.50000	2.209
* 31 Perylene-d12	264	15.999	15.999 (1.000)	157395	2.00000	
33 Indeno(1,2,3-cd)pyrene	276	17.949	17.949 (1.122)	248571	2.50000	2.497
\$ 32 Dibenz(a,h)anthracene-d14	292	17.873	17.873 (1.117)	154335	2.50000	2.562
34 Dibenz(a,h)anthracene	278	17.944	17.944 (1.122)	202062	2.50000	2.485
35 Benzo(g,h,i)perylene	276	18.529	18.529 (1.158)	220622	2.50000	2.666
48 Biphenyl	154	8.204	8.204 (0.918)	178613	2.50000	2.366

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
49 2,6-Dimethylnaphthalene	156	8.399	8.399	(0.940)	139232	2.50000	2.341
50 2,3,5-Trimethylnaphthalene	170	9.421	9.421	(1.054)	113964	2.50000	2.340
51 1-Methylphenanthrene	192	11.549	11.549	(0.822)	157286	2.50000	2.669
52 Benzo(e)pyrene	252	15.840	15.840	(0.990)	222477	2.50000	2.322
53 Perylene	252	16.040	16.040	(1.003)	210282	2.50000	2.338

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc0810.d
Lab Smp Id: CC0810
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info:

Calibration Date: 10-AUG-2006
Calibration Time: 13:23

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	253209	126604	506418	253209	0.00
8 Acenaphthene-d10	122198	61099	244396	122198	0.00
15 Phenanthrene-d10	181565	90782	363130	181565	0.00
23 Chrysene-d12	143956	71978	287912	143956	0.00
31 Perylene-d12	157395	78698	314790	157395	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	6.87	6.37	7.37	6.87	0.00
8 Acenaphthene-d10	8.94	8.44	9.44	8.94	0.00
15 Phenanthrene-d10	10.75	10.25	11.25	10.75	0.00
23 Chrysene-d12	14.05	13.55	14.55	14.05	0.00
31 Perylene-d12	16.00	15.50	16.50	16.00	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i Injection Date: 10-AUG-2006 13:23
 Lab File ID: cc0810.d Init. Cal. Date(s): 04-AUG-2006 04-AUG-2006
 Analysis Type: Init. Cal. Times: 10:25 12:28
 Lab Sample ID: CC0810 Quant Type: ISTD
 Method: /chem3/nt1.i/20060810.b/simpna.m

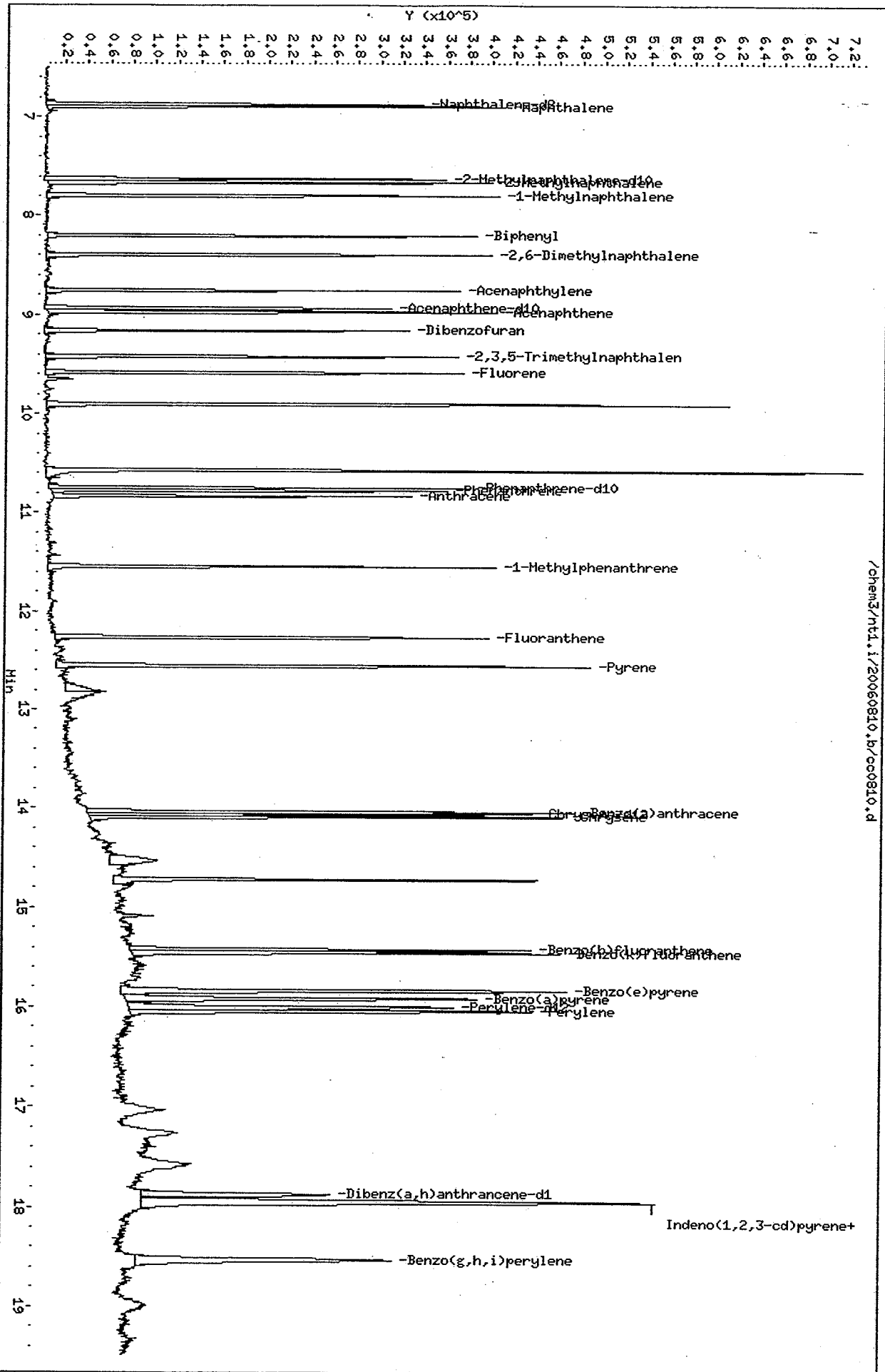
COMPOUND	RRF / AMOUNT	RF2	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
2 Naphthalene	0.99759	0.94185	0.010	5.58766	20.00000	Averaged	
\$ 3 2-Methylnaphthalene-d10	0.51514	0.46139	0.010	10.43408	20.00000	Averaged	
4 2-Methylnaphthalene	0.59078	0.53086	0.010	10.14351	20.00000	Averaged	
5 1-Methylnaphthalene	0.61969	0.53159	0.010	14.21758	20.00000	Averaged	
7 Acenaphthylene	1.65817	1.62244	0.010	2.15529	20.00000	Averaged	
9 Acenaphthene	0.98203	0.93746	0.010	4.53918	20.00000	Averaged	
10 Dibenzofuran	1.44651	1.34683	0.010	6.89112	20.00000	Averaged	
11 Fluorene	1.12609	1.07589	0.010	4.45785	20.00000	Averaged	
16 Phenanthrene	1.02657	0.97786	0.010	4.74497	20.00000	Averaged	
17 Anthracene	1.02589	0.97630	0.010	4.83365	20.00000	Averaged	
19 Fluoranthene	1.04707	0.95783	0.010	8.52295	20.00000	Averaged	
20 Pyrene	1.28426	1.29177	0.010	-0.58473	20.00000	Averaged	
22 Benzo(a)anthracene	1.20437	1.13614	0.010	5.66516	20.00000	Averaged	
24 Chrysene	1.11086	1.05570	0.010	4.96535	20.00000	Averaged	
28 Benzo(b)fluoranthene	1.12875	1.01239	0.010	10.30874	20.00000	Averaged	
29 Benzo(k)fluoranthene	1.20336	1.23030	0.010	-2.23849	20.00000	Averaged	
30 Benzo(a)pyrene	1.09986	0.97205	0.010	11.62046	20.00000	Averaged	
33 Indeno(1,2,3-cd)pyrene	1.26484	1.26343	0.010	0.11166	20.00000	Averaged	
\$ 32 Dibenz(a,h)anthracene-d14	0.76539	0.78445	0.010	-2.48915	20.00000	Averaged	
34 Dibenz(a,h)anthracene	1.03328	1.02703	0.010	0.60516	20.00000	Averaged	
35 Benzo(g,h,i)perylene	1.05141	1.12137	0.010	-6.65415	20.00000	Averaged	
48 Biphenyl	1.23570	1.16934	0.010	5.37087	20.00000	Averaged	
49 2,6-Dimethylnaphthalene	0.97325	0.91152	0.010	6.34276	20.00000	Averaged	
50 2,3,5-Trimethylnaphthalene	0.79717	0.74609	0.010	6.40762	20.00000	Averaged	
51 1-Methylphenanthrene	0.81867	0.87408	0.010	-6.76844	20.00000	Averaged	
52 Benzo(e)pyrene	1.21746	1.13080	0.010	7.11814	20.00000	Averaged	
53 Perylene	1.14310	1.06881	0.010	6.49919	20.00000	Averaged	

Data File: /chem3/nt1.i/20060810.b/cc0810.d
 Date: 10-AUG-2006 13:23

Client ID:
 Sample Info: CC0810

Column phase: ZB-S

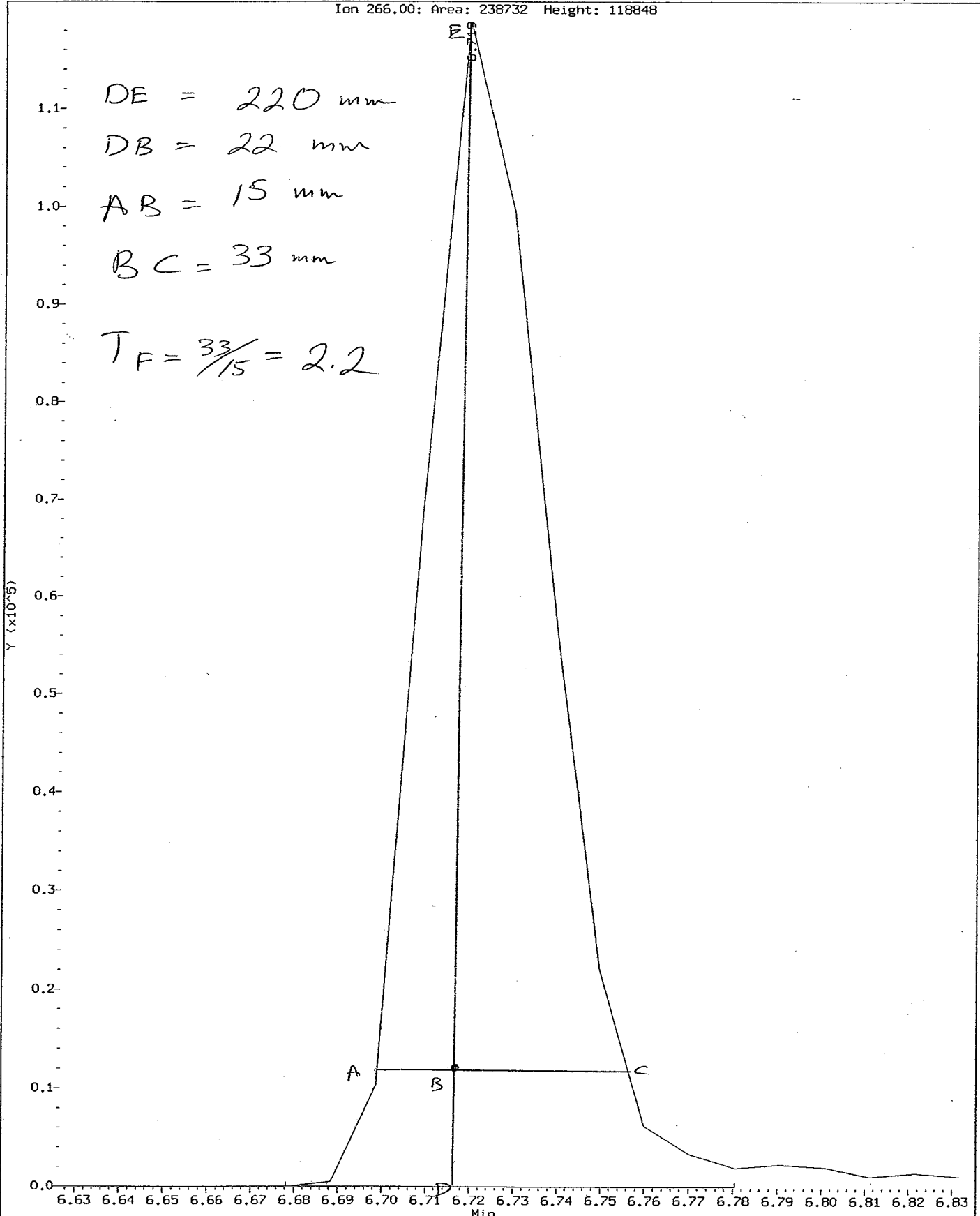
Instrument: nt1.i
 Operator: VTS
 Column diameter: 0.25



Data File: /chem3/nt1.i/20060810.b/ddt.b/df0810.d
Injection Date: 10-AUG-2006 13:08
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5

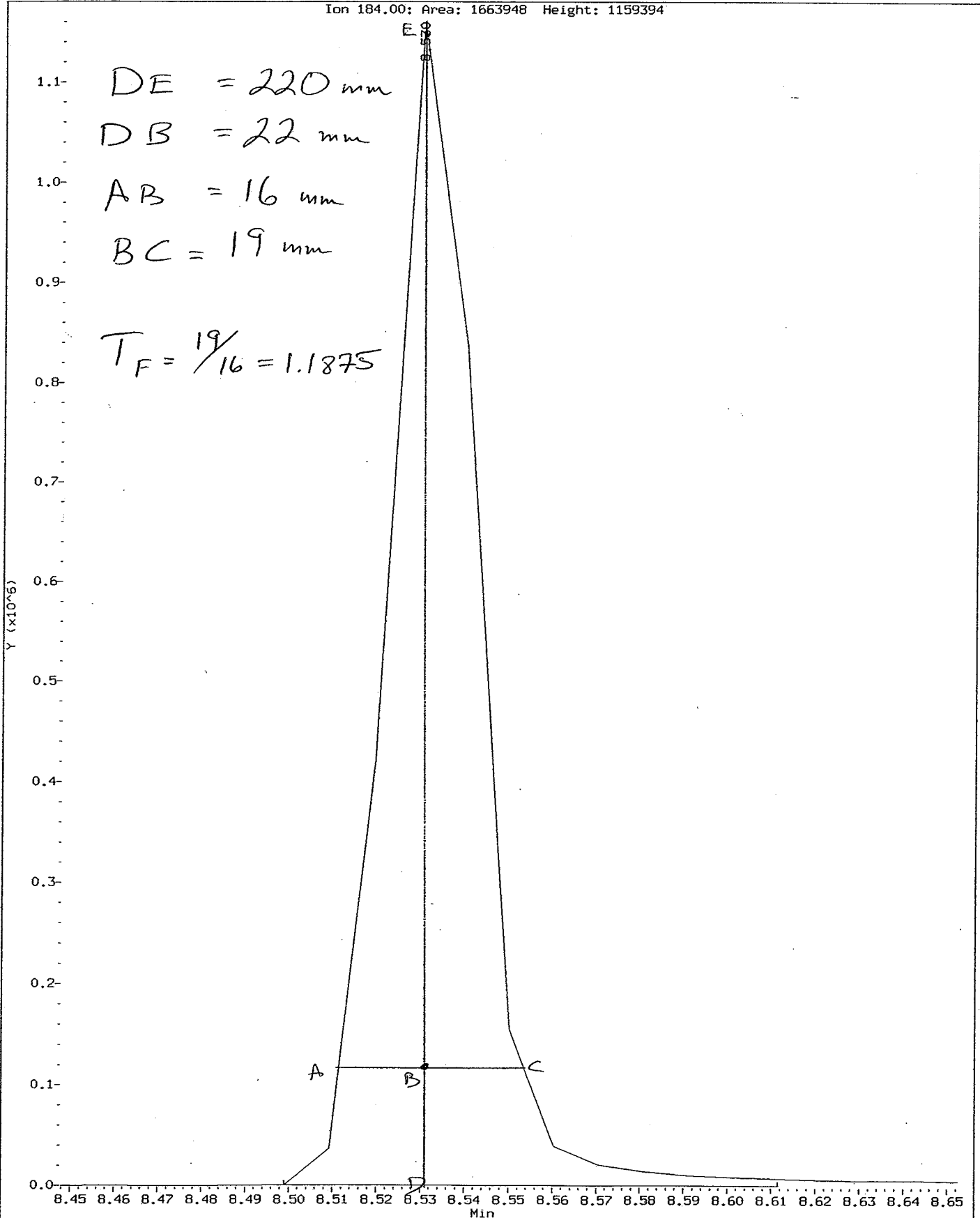
Ion 266.00: Area: 238732 Height: 118848



Data File: /chem3/nt1.i/20060810.b/ddt.b/df0810.d
Injection Date: 10-AUG-2006 13:08
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:

Ion 184.00: Area: 1663948 Height: 1159394



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20060810.b/ddt.b/df0810.d ARI ID: DF0810
Method: /chem3/nt1.i/20060810.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 10-AUG-2006 13:08 Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.719	238732
Benzidine	8.530	1663948
4,4'-DDE	8.806	5639
4,4'-DDD	9.225	81106
4,4'-DDT	9.594	459393

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(5639 + 81106) * 100}{(5639 + 81106 + 459393)}$$

DDT Percent Breakdown = 15.9 %

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060810.b/icv0810.d

Lab Smp Id: ICV0810

Inj Date : 10-AUG-2006 13:48

Operator : VTS

Inst ID: nt1.i

Smp Info : ICV0810

Misc Info :

Comment : 1ul Injection

Method : /chem3/nt1.i/20060810.b/simpna.m

Meth Date : 10-Aug-2006 14:25 van

Quant Type: ISTD

Cal Date : 04-AUG-2006 12:28

Cal File: ic0806f.d

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: pnat4.sub

Target Version: 3.50

Processing Host: cserv3

(1330-1)

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
* 1 Naphthalene-d8	136	6.872	6.874	(1.000)	230120	2.00000		
2 Naphthalene	128	6.896	6.898	(1.003)	332850	2.89982	2.900	
§ 3 2-Methylnaphthalene-d10	152	7.629	7.630	(1.110)	169563	2.86078	2.861 (R)	
4 2-Methylnaphthalene	142	7.664	7.666	(1.115)	193173	2.84181	2.842	
5 1-Methylnaphthalene	142	7.800	7.796	(1.135)	186664	2.61793	2.618	
7 Acenaphthylene	152	8.757	8.753	(0.980)	278653	3.03851	3.039	
* 8 Acenaphthene-d10	164	8.935	8.937	(1.000)	110612	2.00000		
9 Acenaphthene	153	8.970	8.972	(1.004)	158144	2.91176	2.912	
10 Dibenzofuran	168	9.159	9.161	(1.025)	234039	2.92546	2.925	
11 Fluorene	166	9.585	9.587	(1.073)	181997	2.92227	2.922	
* 15 Phenanthrene-d10	188	10.743	10.745	(1.000)	164662	2.00000		
16 Phenanthrene	178	10.773	10.775	(1.003)	249764	2.95514	2.955	
17 Anthracene	178	10.832	10.828	(1.008)	246503	2.91850	2.918	
19 Fluoranthene	202	12.268	12.270	(1.142)	248619	2.88399	2.884	
20 Pyrene	202	12.558	12.554	(0.893)	267067	3.02005	3.020	
22 Benzo(a)anthracene	228	14.035	14.037	(0.998)	238129	2.87143	2.871	
* 23 Chrysene-d12	240	14.059	14.055	(1.000)	137716	2.00000		
24 Chrysene	228	14.088	14.090	(1.002)	226304	2.95855	2.959	
28 Benzo(b)fluoranthene	252	15.424	15.426	(0.964)	250989	3.02785	3.028	
29 Benzo(k)fluoranthene	252	15.454	15.455	(0.966)	246463	2.78892	2.789	
30 Benzo(a)pyrene	252	15.914	15.916	(0.994)	218281	2.70245	2.702	
* 31 Perylene-d12	264	16.003	15.999	(1.000)	146876	2.00000		
33 Indeno(1,2,3-cd)pyrene	276	17.953	17.949	(1.122)	267701	2.88200	2.882	
§ 32 Dibenz(a,h)anthracene-d14	292	17.877	17.873	(1.117)	126610	2.25248	2.252 (R)	
34 Dibenz(a,h)anthracene	278	17.948	17.944	(1.121)	219928	2.89828	2.898	
35 Benzo(g,h,i)perylene	276	18.533	18.529	(1.158)	234498	3.03702	3.037	
48 Biphenyl	154	Compound Not Detected.						

1227

VTS
8.11.2006

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
===== 49 2,6-Dimethylnaphthalene	156		==	=====	=====	=====	=====	=====
50 2,3,5-Trimethylnaphthalene	170							
51 1-Methylphenanthrene	192							
52 Benzo (e) pyrene	252							
53 Perylene	252							

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt1.i
 Lab File ID: icv0810.d
 Lab Smp Id: ICV0810
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt1.i/20060810.b/simpna.m
 Misc Info:

Calibration Date: 10-AUG-2006
 Calibration Time: 13:23

Level:
 Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	253209	126604	506418	230120	-9.12
8 Acenaphthene-d10	122198	61099	244396	110612	-9.48
15 Phenanthrene-d10	181565	90782	363130	164662	-9.31
23 Chrysene-d12	143956	71978	287912	137716	-4.33
31 Perylene-d12	157395	78698	314790	146876	-6.68

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	6.87	6.37	7.37	6.87	-0.03
8 Acenaphthene-d10	8.94	8.44	9.44	8.93	-0.02
15 Phenanthrene-d10	10.75	10.25	11.25	10.74	-0.02
23 Chrysene-d12	14.05	13.55	14.55	14.06	0.03
31 Perylene-d12	16.00	15.50	16.50	16.00	0.03

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 20060810
Sample Matrix: NONE Fraction: SV
Lab Smp Id: ICV0810
Level: Operator: VTS
Data Type: MS DATA SampleType: SAMPLE--
SpikeList File: pnalcss.spk Quant Type: ISTD
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060810.b/simpna.m
Misc Info:

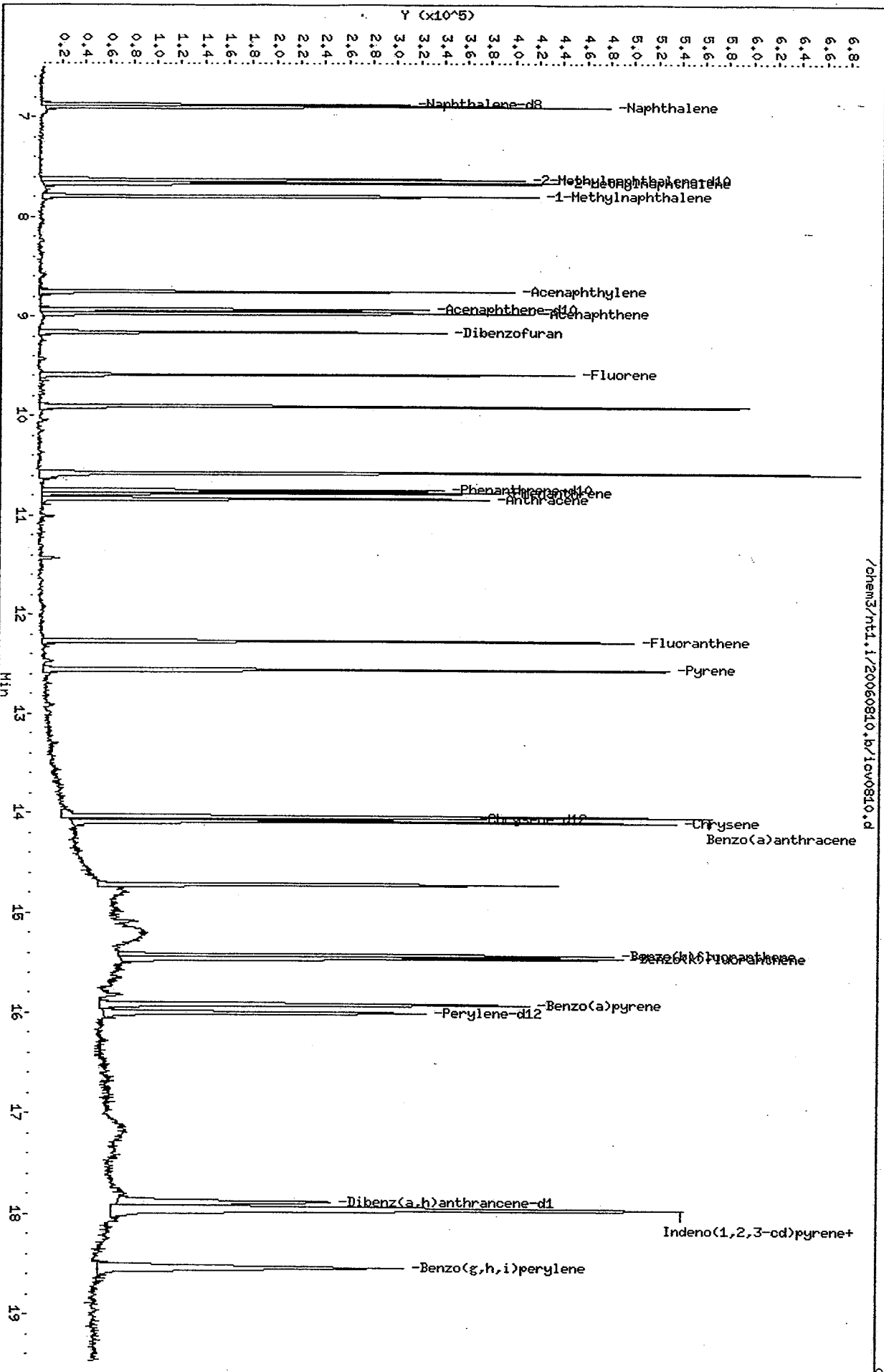
SURROGATE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
\$ 3 2-Methylnaphthalen	3.000	2.861	95.36	
\$ 32 Dibenz(a,h)anthran	3.000	2.252	75.08	

Data File: /chem3/nt1.1/20060810.b/icv0810.d
Date: 10-AUG-2006 13:48
Client ID:
Sample Info: ICV0810

Column phase: ZB-5

/chem3/nt1.1/20060810.b/icv0810.d

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: ANCHOR ENVIRONMENTAL

ARI Job No: JT82

Project: T-4 EARLY ACTION

Instrument ID: NT1

Cont. Calib. Date: 08/31/06

Init. Calib. Date: 08/04/06

Cont. Calib. Time: 1136

COMPOUND	RRF	RRF2.5	MIN RRF	%D	MAX %D
Naphthalene	0.998	0.988	0.100	1.0	
2-Methylnaphthalene	0.591	0.555	0.100	6.1	
Acenaphthylene	1.658	1.731	0.100	-4.4	
Acenaphthene	0.982	0.994	0.100	-1.2	20.0
Dibenzofuran	1.446	1.412	0.100	2.4	
Fluorene	1.126	1.123	0.100	0.3	
Phenanthrene	1.027	1.091	0.100	-6.2	
Anthracene	1.026	1.103	0.100	-7.5	
Fluoranthene	1.047	0.959	0.100	8.4	20.0
Pyrene	1.284	1.374	0.100	-7.0	
Benzo (a) anthracene	1.204	1.159	0.100	3.7	
Chrysene	1.111	1.072	0.100	3.5	
Benzo (b) fluoranthene	1.128	1.070	0.100	5.1	
Benzo (k) fluoranthene	1.203	1.189	0.100	1.2	
Benzo (a) pyrene	1.100	1.014	0.100	7.8	20.0
Indeno (1,2,3-cd) pyrene	1.265	1.110	0.100	12.2	
Dibenz (a,h) anthracene	1.033	0.922	0.100	10.7	
Benzo (g,h,i) perylene	1.051	0.970	0.100	7.7	
1-Methylnaphthalene	0.620	0.571	0.100	7.9	
Biphenyl	1.236	1.284	0.100	-3.9	
2,6-Dimethylnaphthalene	0.973	0.940	0.100	3.4	
2,3,5-Trimethylnaphthalene	0.797	0.745	0.100	6.5	
1-Methylphenanthrene	0.818	0.928	0.100	-13.4	
Benzo (e) pyrene	1.217	1.162	0.100	4.5	
Perylene	1.143	1.056	0.100	7.6	
2-Methylnaphthalene-d10	0.515	0.493	0.100	4.3	
Dibenz (a,h) anthracene-d14	0.765	0.686	0.100	10.3	

<- Outside QC limits

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring
 Data file : /chem3/nt1.i/20060831.b/cc0831.d
 Lab Smp Id: CC0831
 Inj Date : 31-AUG-2006 11:36
 Operator : VTS
 Smp Info : CC0831
 Misc Info :
 Comment : 1ul Injection
 Method : /chem3/nt1.i/20060831.b/simpna.m
 Meth Date : 31-Aug-2006 15:05 van
 Cal Date : 04-AUG-2006 12:28
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt1.i

Quant Type: ISTD
 Cal File: ic0806f.d
 Continuing Calibration Sample
 Compound Sublist: pnat4.sub

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 1 Naphthalene-d8	136	6.823	6.823	(1.000)	330618	2.00000	
2 Naphthalene	128	6.847	6.847	(1.003)	408211	2.50000	2.475
\$ 3 2-Methylnaphthalene-d10	152	7.580	7.580	(1.111)	203599	2.50000	2.391
4 2-Methylnaphthalene	142	7.621	7.621	(1.117)	229273	2.50000	2.348
5 1-Methylnaphthalene	142	7.751	7.751	(1.136)	235836	2.50000	2.302
7 Acenaphthylene	152	8.703	8.703	(0.979)	364612	2.50000	2.610
* 8 Acenaphthene-d10	164	8.886	8.886	(1.000)	168464	2.00000	
9 Acenaphthene	153	8.921	8.921	(1.004)	209267	2.50000	2.530
10 Dibenzofuran	168	9.111	9.111	(1.025)	297312	2.50000	2.440
11 Fluorene	166	9.536	9.536	(1.073)	236503	2.50000	2.493
* 15 Phenanthrene-d10	188	10.694	10.694	(1.000)	226331	2.00000	
16 Phenanthrene	178	10.724	10.724	(1.003)	308714	2.50000	2.657
17 Anthracene	178	10.777	10.777	(1.008)	312167	2.50000	2.689
19 Fluoranthene	202	12.213	12.213	(1.142)	271342	2.50000	2.290
20 Pyrene	202	12.503	12.503	(0.893)	293616	2.50000	2.676
22 Benzo(a)anthracene	228	13.980	13.980	(0.998)	247545	2.50000	2.405
* 23 Chrysene-d12	240	14.004	14.004	(1.000)	170894	2.00000	
24 Chrysene	228	14.034	14.034	(1.002)	229089	2.50000	2.414
28 Benzo(b)fluoranthene	252	15.352	15.352	(0.964)	238723	2.50000	2.369
29 Benzo(k)fluoranthene	252	15.387	15.387	(0.966)	265399	2.50000	2.470
30 Benzo(a)pyrene	252	15.836	15.836	(0.994)	226343	2.50000	2.305
* 31 Perylene-d12	264	15.925	15.925	(1.000)	178548	2.00000	
33 Indeno(1,2,3-cd)pyrene	276	17.834	17.834	(1.120)	247852	2.50000	2.195
\$ 32 Dibenz(a,h)anthracene-d14	292	17.763	17.763	(1.115)	153238	2.50000	2.243
34 Dibenz(a,h)anthracene	278	17.828	17.828	(1.119)	205708	2.50000	2.230
35 Benzo(g,h,i)perylene	276	18.401	18.401	(1.155)	216560	2.50000	2.307
48 Biphenyl	154	8.159	8.159	(0.918)	270306	2.50000	2.597

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
49 2,6-Dimethylnaphthalene	156	8.348	8.348	(0.939)	197854	2.50000	2.413
50 2,3,5-Trimethylnaphthalene	170	9.371	9.371	(1.055)	156969	2.50000	2.338
51 1-Methylphenanthrene	192	11.492	11.492	(0.821)	198314	2.50000	2.835
52 Benzo(e)pyrene	252	15.759	15.759	(0.990)	259242	2.50000	2.385
53 Perylene	252	15.960	15.960	(1.002)	235783	2.50000	2.310

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt1.i
 Lab File ID: cc0831.d
 Lab Smp Id: CC0831
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt1.i/20060831.b/simpna.m
 Misc Info:

Calibration Date: 31-AUG-2006
 Calibration Time: 11:36
 Level:
 Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	330618	165309	661236	330618	0.00
8 Acenaphthene-d10	168464	84232	336928	168464	0.00
15 Phenanthrene-d10	226331	113166	452662	226331	0.00
23 Chrysene-d12	170894	85447	341788	170894	0.00
31 Perylene-d12	178548	89274	357096	178548	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	6.82	6.32	7.32	6.82	0.00
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	0.00
15 Phenanthrene-d10	10.69	10.19	11.19	10.69	0.00
23 Chrysene-d12	14.00	13.50	14.50	14.00	0.00
31 Perylene-d12	15.92	15.42	16.42	15.92	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

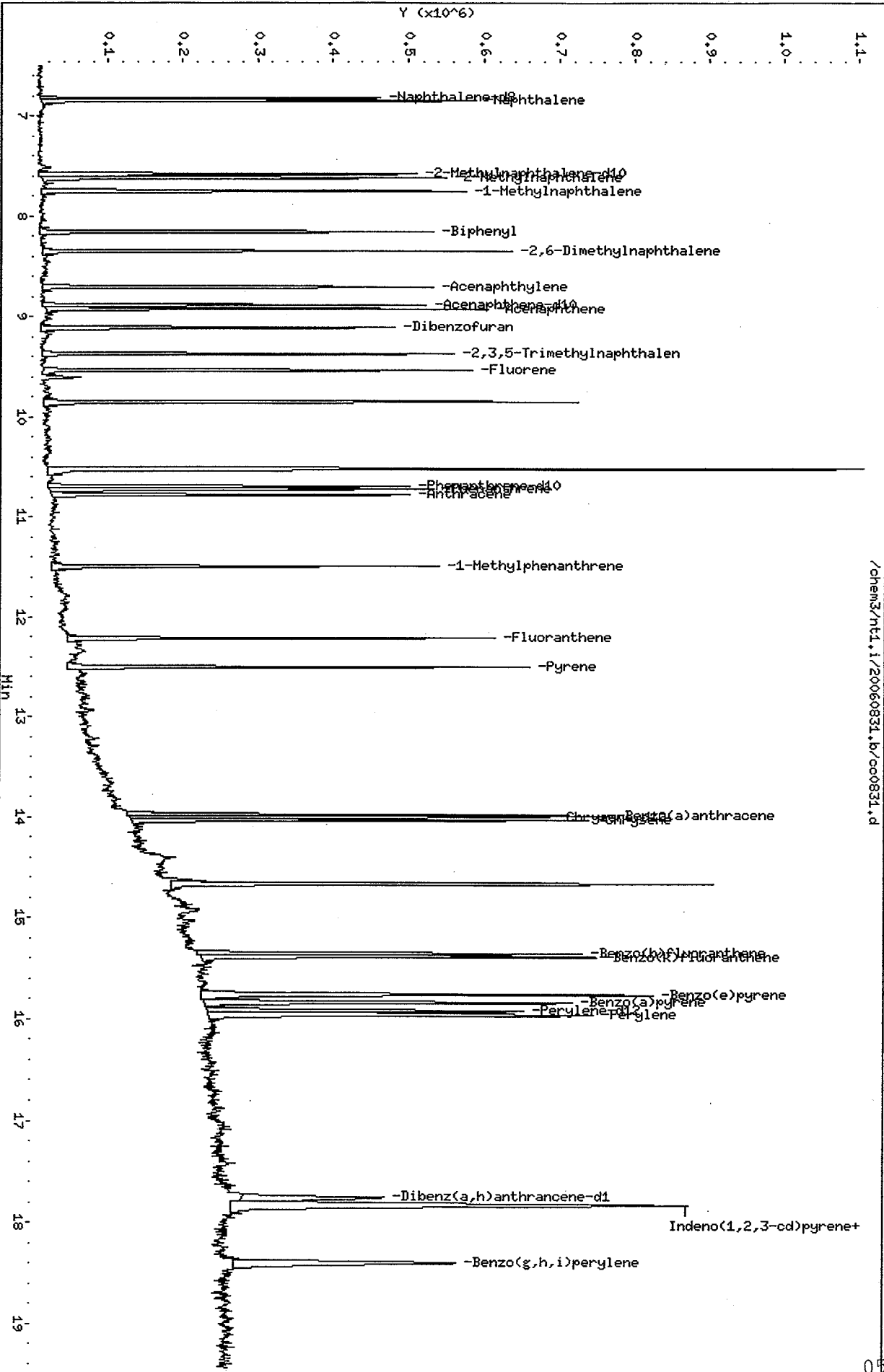
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i Injection Date: 31-AUG-2006 11:36
 Lab File ID: cc0831.d Init. Cal. Date(s): 04-AUG-2006 04-AUG-2006
 Analysis Type: Init. Cal. Times: 10:25 12:28
 Lab Sample ID: CC0831 Quant Type: ISTD
 Method: /chem3/nt1.i/20060831.b/simpna.m

COMPOUND	RRF / AMOUNT	RF2	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
2 Naphthalene	0.99759	0.98775	0.010	0.98627	20.00000	Averaged	
\$ 3 2-Methylnaphthalene-d10	0.51514	0.49265	0.010	4.36495	20.00000	Averaged	
4 2-Methylnaphthalene	0.59078	0.55477	0.010	6.09497	20.00000	Averaged	
5 1-Methylnaphthalene	0.61969	0.57065	0.010	7.91357	20.00000	Averaged	
7 Acenaphthylene	1.65817	1.73147	0.010	-4.42000	20.00000	Averaged	
9 Acenaphthene	0.98203	0.99376	0.010	-1.19477	20.00000	Averaged	
10 Dibenzofuran	1.44651	1.41187	0.010	2.39469	20.00000	Averaged	
11 Fluorene	1.12609	1.12310	0.010	0.26490	20.00000	Averaged	
16 Phenanthrene	1.02657	1.09119	0.010	-6.29538	20.00000	Averaged	
17 Anthracene	1.02589	1.10340	0.010	-7.55579	20.00000	Averaged	
19 Fluoranthene	1.04707	0.95910	0.010	8.40207	20.00000	Averaged	
20 Pyrene	1.28426	1.37449	0.010	-7.02637	20.00000	Averaged	
22 Benzo(a)anthracene	1.20437	1.15882	0.010	3.78185	20.00000	Averaged	
24 Chrysene	1.11086	1.07243	0.010	3.45968	20.00000	Averaged	
28 Benzo(b)fluoranthene	1.12875	1.06962	0.010	5.23886	20.00000	Averaged	
29 Benzo(k)fluoranthene	1.20336	1.18914	0.010	1.18129	20.00000	Averaged	
30 Benzo(a)pyrene	1.09986	1.01415	0.010	7.79284	20.00000	Averaged	
33 Indeno(1,2,3-cd)pyrene	1.26484	1.11052	0.010	12.20037	20.00000	Averaged	
\$ 32 Dibenz(a,h)anthracene-d14	0.76539	0.68660	0.010	10.29516	20.00000	Averaged	
34 Dibenz(a,h)anthracene	1.03328	0.92169	0.010	10.79970	20.00000	Averaged	
35 Benzo(g,h,i)perylene	1.05141	0.97032	0.010	7.71245	20.00000	Averaged	
48 Biphenyl	1.23570	1.28363	0.010	-3.87821	20.00000	Averaged	
49 2,6-Dimethylnaphthalene	0.97325	0.93957	0.010	3.46071	20.00000	Averaged	
50 2,3,5-Trimethylnaphthalene	0.79717	0.74541	0.010	6.49310	20.00000	Averaged	
51 1-Methylphenanthrene	0.81867	0.92836	0.010	-13.39898	20.00000	Averaged	
52 Benzo(e)pyrene	1.21746	1.16156	0.010	4.59149	20.00000	Averaged	
53 Perylene	1.14310	1.05645	0.010	7.58090	20.00000	Averaged	

Data File: /chem3/nt1.i/20060831.b/cc0831.d
 Date: 31-AUG-2006 11:36
 Client ID:
 Sample Info: CC0831
 Column phase: ZB-5

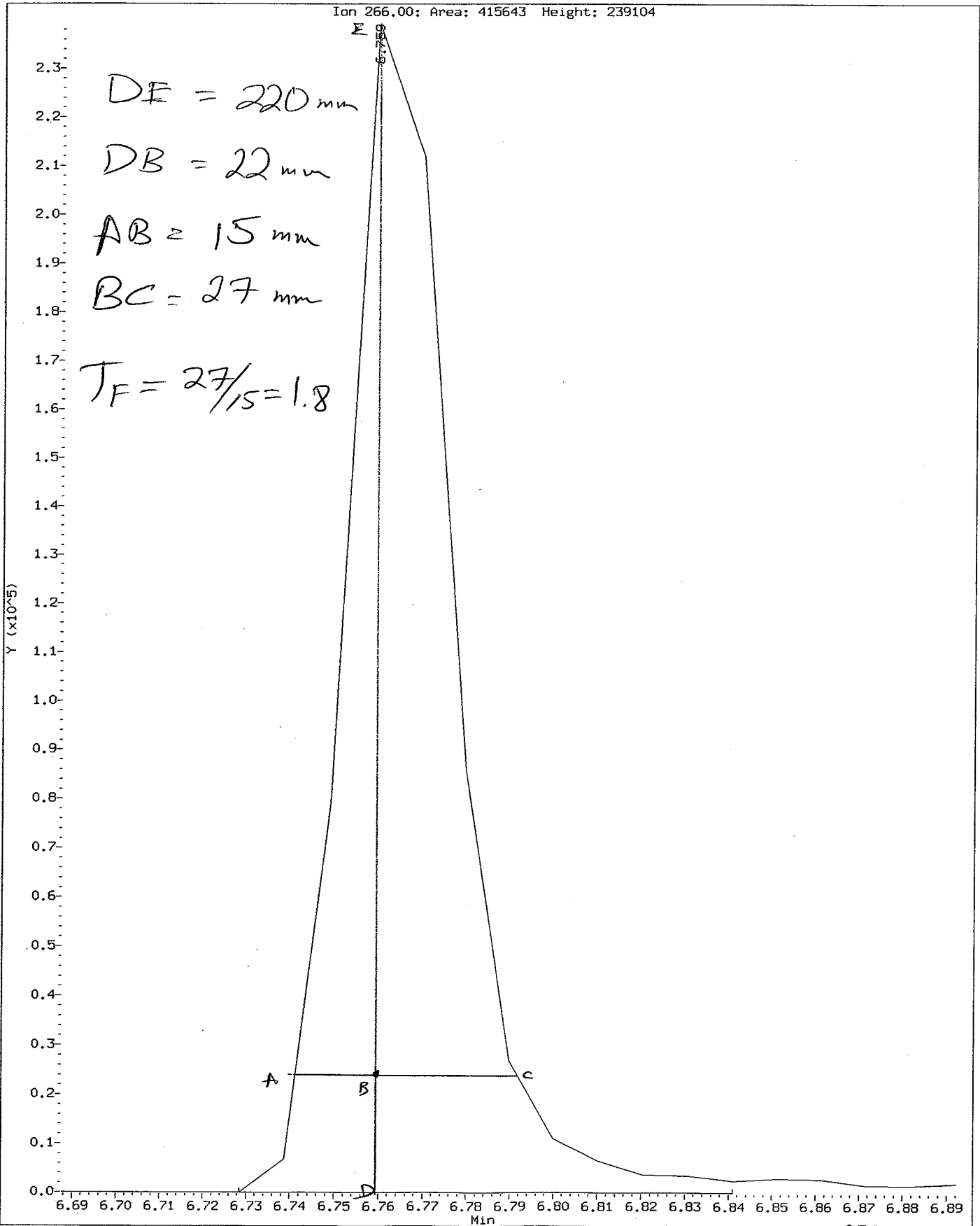
Instrument: nt1.i
 Operator: VTS
 Column diameter: 0.25



Data File: /chem3/nt1.1/20060831.b/ddt.b/df0831.d
Injection Date: 31-AUG-2006 11:20
Instrument: nt1.1
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5

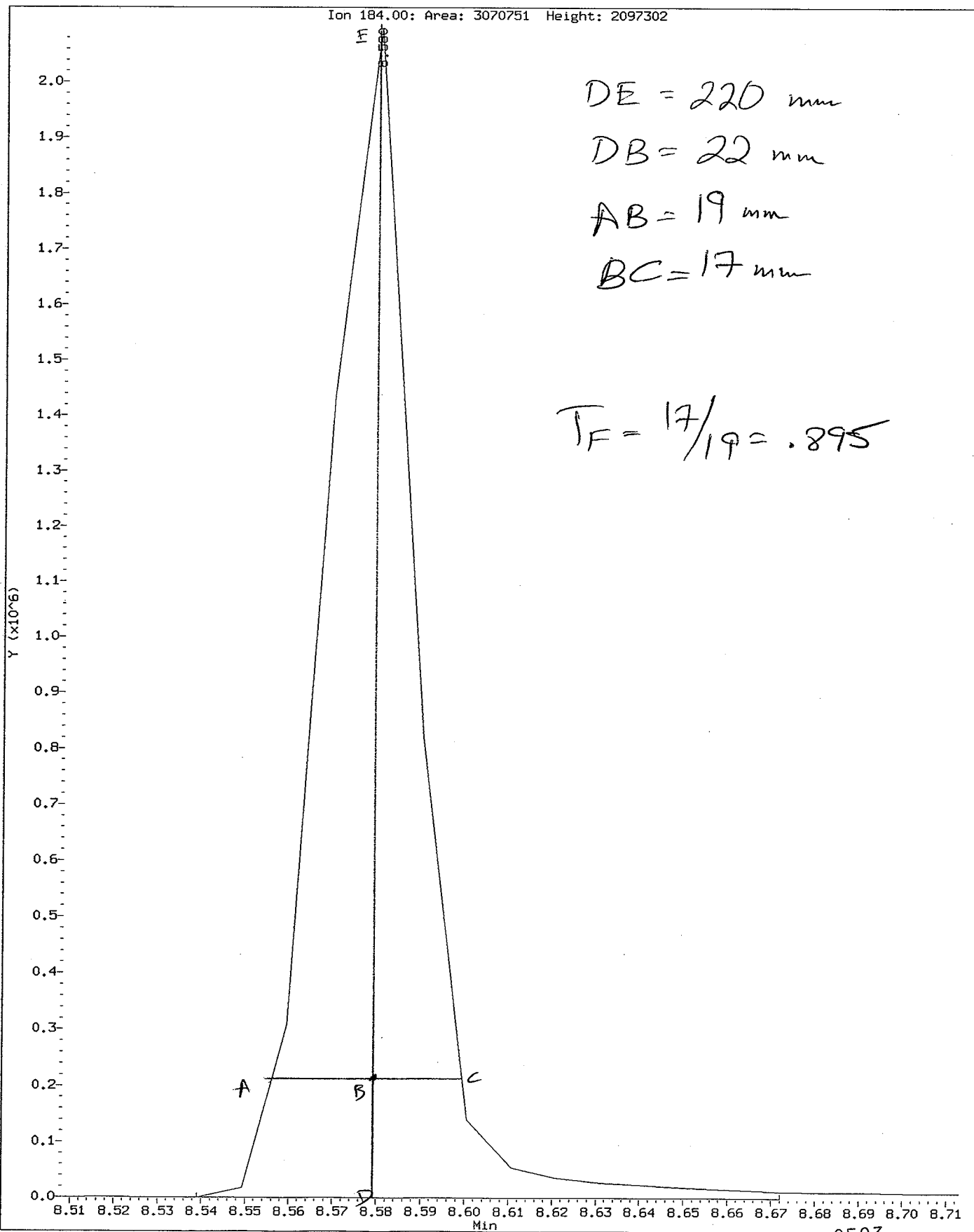
Ion 266.00: Area: 415643 Height: 239104



Data File: /chem3/nt1.i/20060831.b/ddt.b/df0831.d
Injection Date: 31-AUG-2006 11:20
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:

Ion 184.00: Area: 3070751 Height: 2097302



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20060831.b/ddt.b/df0831.d ARI ID: DF0831
Method: /chem3/nt1.i/20060831.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 31-AUG-2006 11:20 Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.759	415643
Benzidine	8.580	3070751
4,4'-DDE	8.846	7162
4,4'-DDD	9.265	74064
4,4'-DDT	9.634	861730

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(7162 + 74064) * 100}{(7162 + 74064 + 861730)}$$

DDT Percent Breakdown = 8.6 %

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: ANCHOR ENVIRONMENTAL

ARI Job No: JT82

Project: T-4 EARLY ACTION

Instrument ID: NT1

Cont. Calib. Date: 09/01/06

Init. Calib. Date: 08/04/06

Cont. Calib. Time: 1130

COMPOUND	RRF	RRF2.5	MIN RRF	%D	MAX %D
Naphthalene	0.998	0.980	0.100	1.8	
2-Methylnaphthalene	0.591	0.538	0.100	9.0	
Acenaphthylene	1.658	1.670	0.100	-0.7	
Acenaphthene	0.982	0.977	0.100	0.5	20.0
Dibenzofuran	1.446	1.396	0.100	3.4	
Fluorene	1.126	1.105	0.100	1.9	
Phenanthrene	1.027	1.088	0.100	-5.9	
Anthracene	1.026	1.096	0.100	-6.8	
Fluoranthene	1.047	0.955	0.100	8.8	20.0
Pyrene	1.284	1.373	0.100	-6.9	
Benzo (a) anthracene	1.204	1.173	0.100	2.6	
Chrysene	1.111	1.108	0.100	0.3	
Benzo (b) fluoranthene	1.128	1.114	0.100	1.2	
Benzo (k) fluoranthene	1.203	1.126	0.100	6.4	
Benzo (a) pyrene	1.100	1.007	0.100	8.4	20.0
Indeno (1,2,3-cd) pyrene	1.265	1.102	0.100	12.9	
Dibenz (a,h) anthracene	1.033	0.921	0.100	10.8	
Benzo (g,h,i) perylene	1.051	0.957	0.100	8.9	
1-Methylnaphthalene	0.620	0.556	0.100	10.3	
Biphenyl	1.236	1.226	0.100	0.8	
2,6-Dimethylnaphthalene	0.973	0.938	0.100	3.6	
2,3,5-Trimethylnaphthalene	0.797	0.766	0.100	3.9	
1-Methylphenanthrene	0.818	0.929	0.100	-13.6	
Benzo (e) pyrene	1.217	1.122	0.100	7.8	
Perylene	1.143	1.073	0.100	6.1	
2-Methylnaphthalene-d10	0.515	0.493	0.100	4.3	
Dibenz (a,h) anthracene-d14	0.765	0.684	0.100	10.6	

<- Outside QC limits

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring
 Data file : /chem3/nt1.i/20060901.b/cc0901.d
 Lab Smp Id: CC0901
 Inj Date : 01-SEP-2006 11:30
 Operator : VTS
 Smp Info : CC0901
 Misc Info :
 Comment : 1ul Injection
 Method : /chem3/nt1.i/20060901.b/simpna.m
 Meth Date : 01-Sep-2006 13:32 van
 Cal Date : 04-AUG-2006 12:28
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50
 Processing Host: cserv3

Inst ID: nt1.i
 Quant Type: ISTD
 Cal File: ic0806f.d
 Continuing Calibration Sample
 Compound Sublist: pnat4.sub

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT	ON-COL
								(ug/mL)	(ug/mL)
* 1 Naphthalene-d8	136			6.824	6.824	(1.000)	410913	2.00000	
2 Naphthalene	128			6.848	6.848	(1.003)	503642	2.50000	2.457
\$ 3 2-Methylnaphthalene-d10	152			7.581	7.581	(1.111)	253042	2.50000	2.391
4 2-Methylnaphthalene	142			7.622	7.622	(1.117)	276240	2.50000	2.276
5 1-Methylnaphthalene	142			7.752	7.752	(1.136)	285735	2.50000	2.244
7 Acenaphthylene	152			8.710	8.710	(0.980)	426176	2.50000	2.518
* 8 Acenaphthene-d10	164			8.887	8.887	(1.000)	204164	2.00000	
9 Acenaphthene	153			8.922	8.922	(1.004)	249430	2.50000	2.488
10 Dibenzofuran	168			9.117	9.117	(1.026)	356374	2.50000	2.413
11 Fluorene	166			9.537	9.537	(1.073)	282049	2.50000	2.454
* 15 Phenanthrene-d10	188			10.695	10.695	(1.000)	267547	2.00000	
16 Phenanthrene	178			10.725	10.725	(1.003)	363862	2.50000	2.650
17 Anthracene	178			10.784	10.784	(1.008)	366447	2.50000	2.670
19 Fluoranthene	202			12.214	12.214	(1.142)	319296	2.50000	2.280
20 Pyrene	202			12.504	12.504	(0.893)	344553	2.50000	2.674
22 Benzo(a)anthracene	228			13.981	13.981	(0.998)	294326	2.50000	2.435
* 23 Chrysene-d12	240			14.005	14.005	(1.000)	200701	2.00000	
24 Chrysene	228			14.034	14.034	(1.002)	278034	2.50000	2.494
28 Benzo(b)fluoranthene	252			15.364	15.364	(0.965)	284859	2.50000	2.468
29 Benzo(k)fluoranthene	252			15.394	15.394	(0.967)	287931	2.50000	2.340
30 Benzo(a)pyrene	252			15.843	15.843	(0.995)	257497	2.50000	2.289
* 31 Perylene-d12	264			15.926	15.926	(1.000)	204542	2.00000	
33 Indeno(1,2,3-cd)pyrene	276			17.847	17.847	(1.121)	281850	2.50000	2.179
\$ 32 Dibenz(a,h)anthracene-d14	292			17.776	17.776	(1.116)	175011	2.50000	2.236
34 Dibenz(a,h)anthracene	278			17.841	17.841	(1.120)	235431	2.50000	2.228
35 Benzo(g,h,i)perylene	276			18.420	18.420	(1.157)	244762	2.50000	2.276

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
-----	----	==	=====	=====	=====	=====	=====
48 Biphenyl	154	8.160	8.160	(0.918)	312825	2.50000	2.480
49 2,6-Dimethylnaphthalene	156	8.349	8.349	(0.939)	239387	2.50000	2.410
50 2,3,5-Trimethylnaphthalene	170	9.377	9.377	(1.055)	195466	2.50000	2.402
51 1-Methylphenanthrene	192	11.499	11.499	(0.821)	233052	2.50000	2.837
52 Benzo(e)pyrene	252	15.766	15.766	(0.990)	286838	2.50000	2.304
53 Perylene	252	15.967	15.967	(1.003)	274457	2.50000	2.348

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt1.i
 Lab File ID: cc0901.d
 Lab Smp Id: CC0901
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt1.i/20060901.b/simpna.m
 Misc Info:

Calibration Date: 01-SEP-2006
 Calibration Time: 11:30
 Level:
 Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	410913	205456	821826	410913	0.00
8 Acenaphthene-d10	204164	102082	408328	204164	0.00
15 Phenanthrene-d10	267547	133774	535094	267547	0.00
23 Chrysene-d12	200701	100350	401402	200701	0.00
31 Perylene-d12	204542	102271	409084	204542	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	6.82	6.32	7.32	6.82	0.00
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	0.00
15 Phenanthrene-d10	10.70	10.20	11.20	10.70	0.00
23 Chrysene-d12	14.00	13.50	14.50	14.00	0.00
31 Perylene-d12	15.93	15.43	16.43	15.93	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

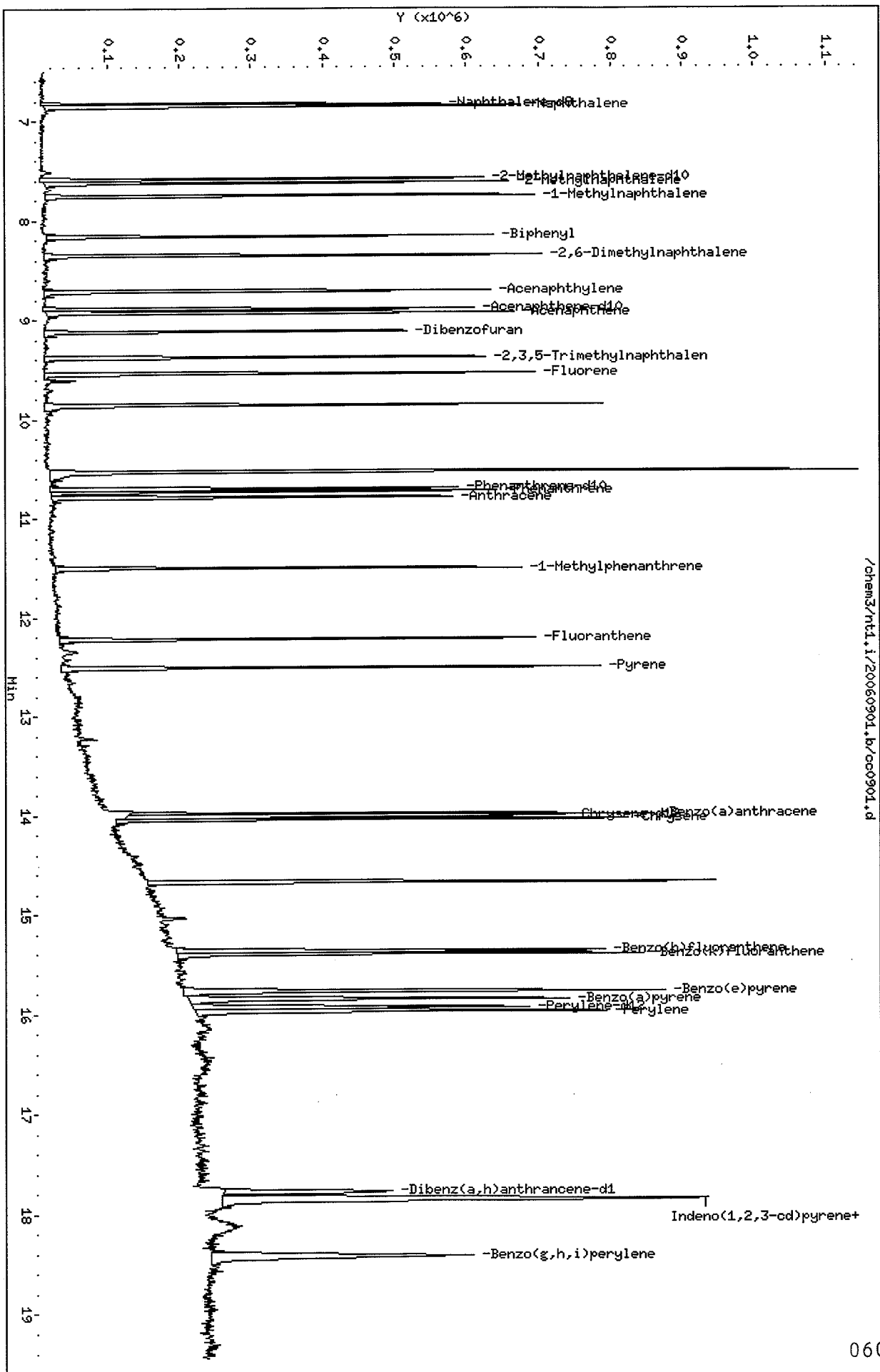
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i Injection Date: 01-SEP-2006 11:30
 Lab File ID: cc0901.d Init. Cal. Date(s): 04-AUG-2006 04-AUG-2006
 Analysis Type: Init. Cal. Times: 10:25 12:28
 Lab Sample ID: CC0901 Quant Type: ISTD
 Method: /chem3/nt1.i/20060901.b/simpna.m

COMPOUND	RRF / AMOUNT	RF2	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
2 Naphthalene	0.99759	0.98053	0.010	1.71009	20.00000	Averaged	
\$ 3 2-Methylnaphthalene-d10	0.51514	0.49264	0.010	4.36641	20.00000	Averaged	
4 2-Methylnaphthalene	0.59078	0.53781	0.010	8.96678	20.00000	Averaged	
5 1-Methylnaphthalene	0.61969	0.55629	0.010	10.23109	20.00000	Averaged	
7 Acenaphthylene	1.65817	1.66994	0.010	-0.70935	20.00000	Averaged	
9 Acenaphthene	0.98203	0.97737	0.010	0.47449	20.00000	Averaged	
10 Dibenzofuran	1.44651	1.39642	0.010	3.46268	20.00000	Averaged	
11 Fluorene	1.12609	1.10519	0.010	1.85591	20.00000	Averaged	
16 Phenanthrene	1.02657	1.08799	0.010	-5.98342	20.00000	Averaged	
17 Anthracene	1.02589	1.09572	0.010	-6.80750	20.00000	Averaged	
19 Fluoranthene	1.04707	0.95474	0.010	8.81873	20.00000	Averaged	
20 Pyrene	1.28426	1.37340	0.010	-6.94081	20.00000	Averaged	
22 Benzo(a)anthracene	1.20437	1.17319	0.010	2.58925	20.00000	Averaged	
24 Chrysene	1.11086	1.10825	0.010	0.23495	20.00000	Averaged	
28 Benzo(b)fluoranthene	1.12875	1.11413	0.010	1.29544	20.00000	Averaged	
29 Benzo(k)fluoranthene	1.20336	1.12615	0.010	6.41644	20.00000	Averaged	
30 Benzo(a)pyrene	1.09986	1.00711	0.010	8.43268	20.00000	Averaged	
33 Indeno(1,2,3-cd)pyrene	1.26484	1.10236	0.010	12.84567	20.00000	Averaged	
\$ 32 Dibenz(a,h)anthracene-d14	0.76539	0.68450	0.010	10.56934	20.00000	Averaged	
34 Dibenz(a,h)anthracene	1.03328	0.92081	0.010	10.88504	20.00000	Averaged	
35 Benzo(g,h,i)perylene	1.05141	0.95731	0.010	8.94994	20.00000	Averaged	
48 Biphenyl	1.23570	1.22578	0.010	0.80285	20.00000	Averaged	
49 2,6-Dimethylnaphthalene	0.97325	0.93802	0.010	3.61956	20.00000	Averaged	
50 2,3,5-Trimethylnaphthalene	0.79717	0.76592	0.010	3.92062	20.00000	Averaged	
51 1-Methylphenanthrene	0.81867	0.92895	0.010	-13.47106	20.00000	Averaged	
52 Benzo(e)pyrene	1.21746	1.12187	0.010	7.85118	20.00000	Averaged	
53 Perylene	1.14310	1.07345	0.010	6.09350	20.00000	Averaged	

Data File: /chem3/rt1.i/20060901.b/cc0901.d
 Date : 01-SEP-2006 11:30
 Client ID:
 Sample Info: CC0901
 Column phase: ZB-5

Instrument: rt1.i
 Operator: VTS
 Column diameter: 0.25



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20060901.b/ddt.b/df0901.d
Method: /chem3/nt1.i/20060901.b/ddt.b/sw846ddt.m
Analysis Date: 01-SEP-2006 11:13

ARI ID: DF0901
Misc:
Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.760	363421
Benzidine	8.581	2938678
4,4'-DDE	8.847	4696
4,4'-DDD	9.266	69176
4,4'-DDT	9.644	783399

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

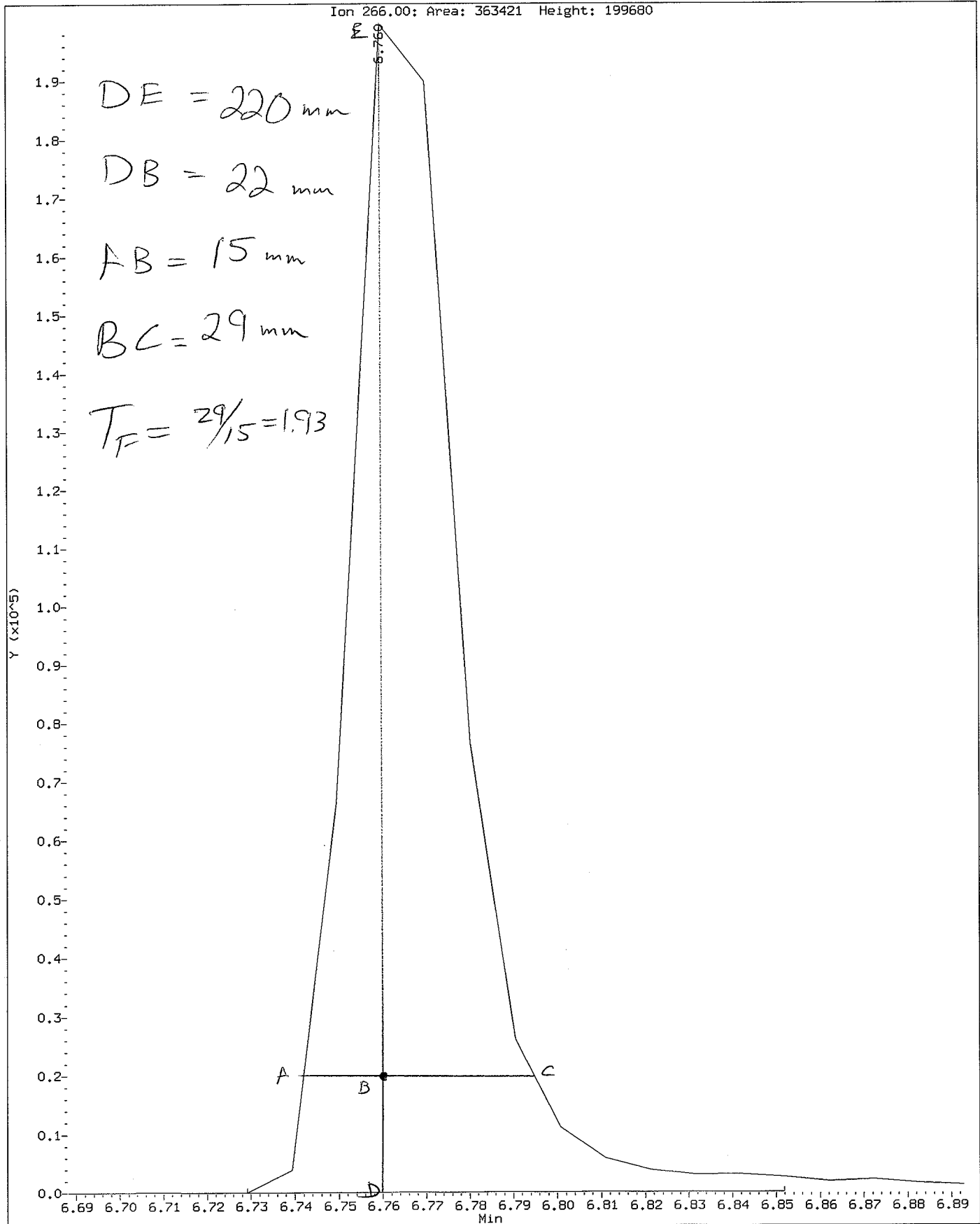
$$\text{DDT Percent Breakdown} = \frac{(4696 + 69176) * 100}{(4696 + 69176 + 783399)}$$

DDT Percent Breakdown = 8.6 %

Data File: /chem3/nt1.1/20060901.b/ddt.b/df0901.d
Injection Date: 01-SEP-2006 11:13
Instrument: nt1.i
Client Sample ID:

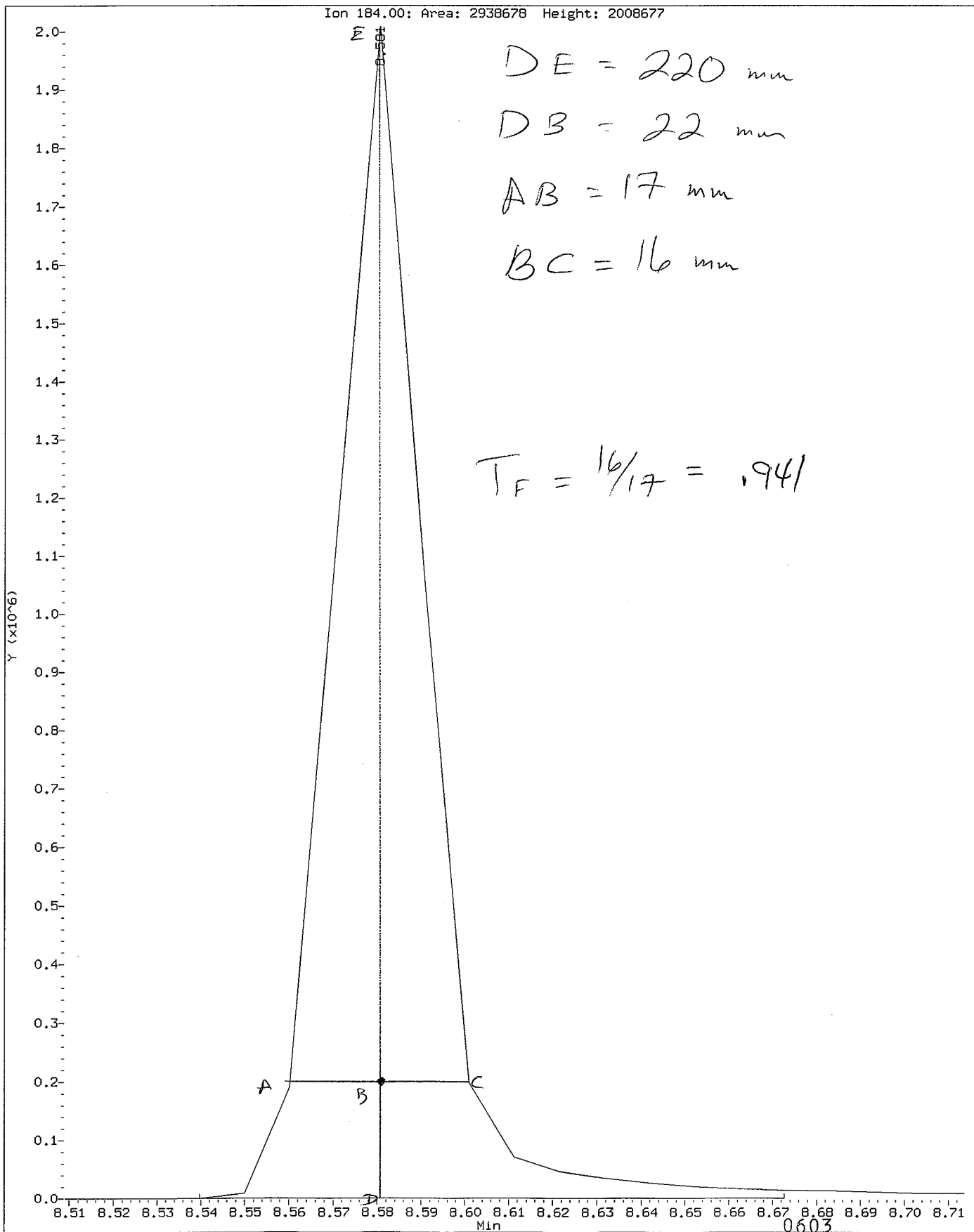
Compound: Pentachlorophenol
CAS Number: 87-86-5

Ion 266.00: Area: 363421 Height: 199680



Data File: /chem3/nt1.i/20060901.b/ddt.b/df0901.d
Injection Date: 01-SEP-2006 11:13
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



**SIM Semivolatile Analysis
QC Raw Data**

**prepared
for**

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

**prepared
by**

Analytical Resources, Inc.

Date : 04-AUG-2006 09:53

Client ID:

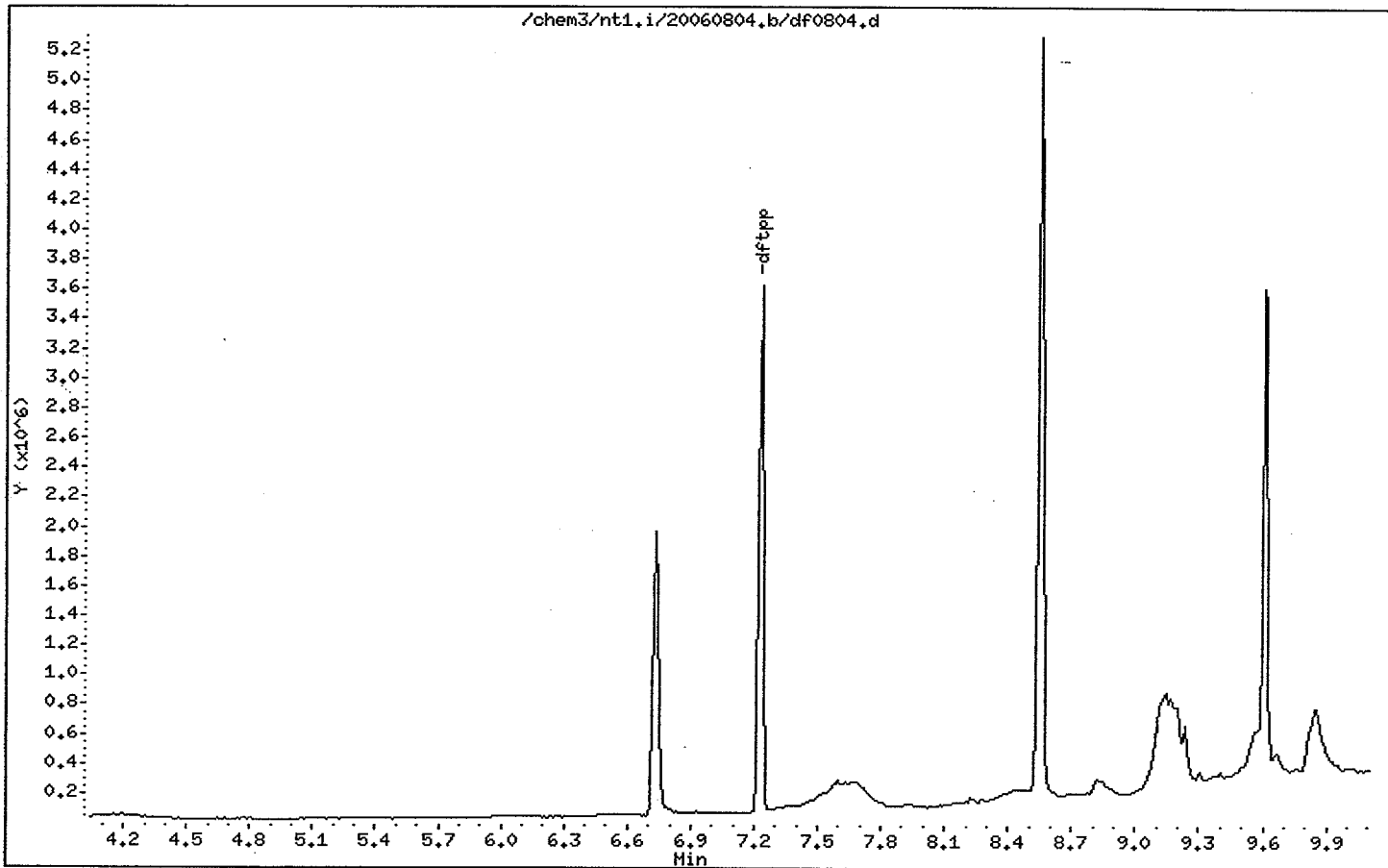
Instrument: nt1.i

Sample Info: DF0804

Operator: LJR

Column phase: ZB-5

Column diameter: 0.25



Date : 04-AUG-2006 09:53

Client ID:

Instrument: nt1.i

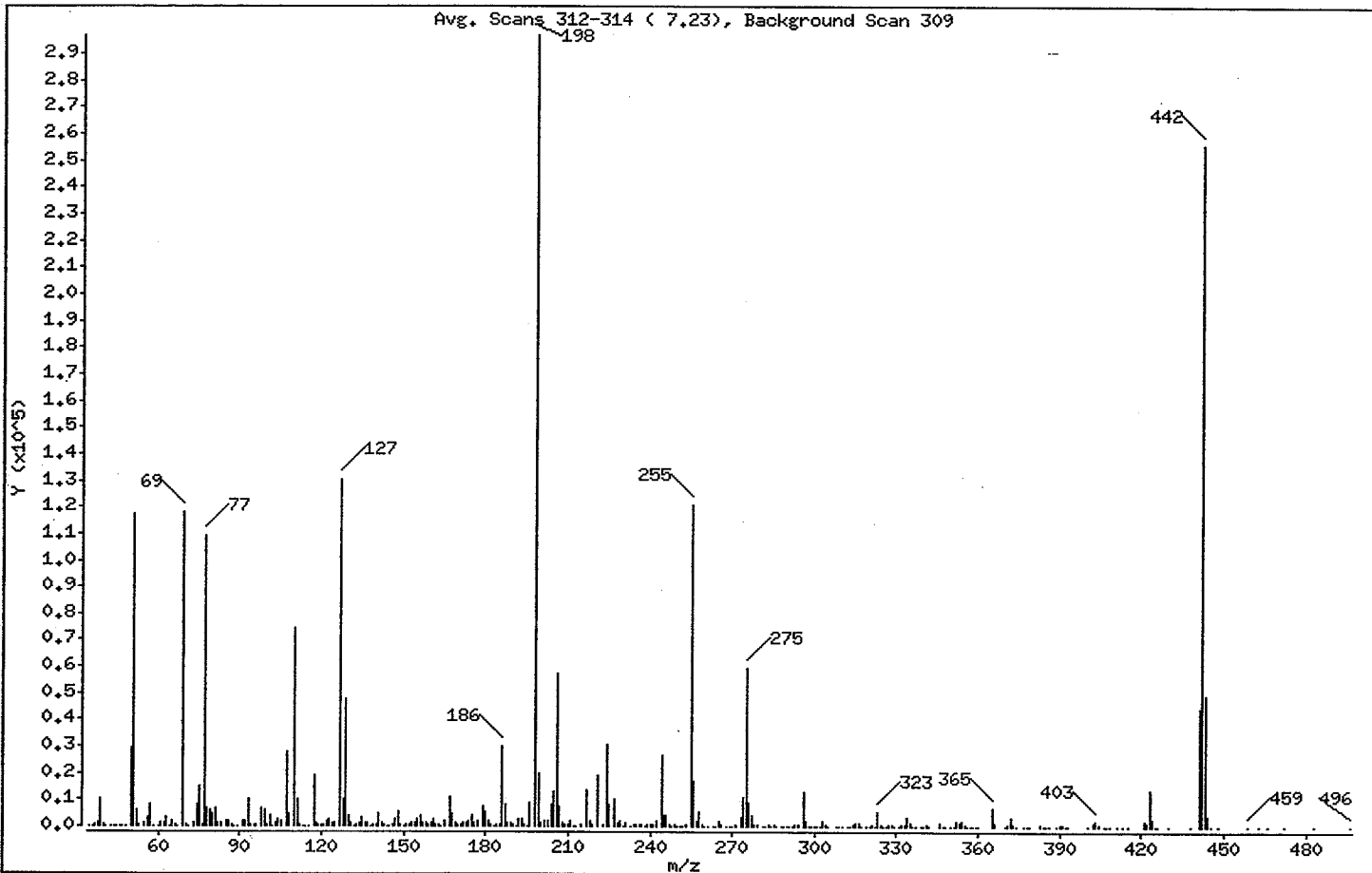
Sample Info: DF0804

Operator: LJR

Column phase: ZB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	39.50
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	39.68
70	Less than 2.00% of mass 69	0.16 (0.41)
127	25.00 - 75.00% of mass 198	43.90
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.74
275	10.00 - 30.00% of mass 198	20.06
365	Greater than 0.75% of mass 198	2.25
441	Present, but less than mass 442	15.05
442	40.00 - 110.00% of mass 198	86.30
443	15.00 - 24.00% of mass 442	16.57 (19.20)

Date : 04-AUG-2006 09:53

Client ID:

Instrument: nt1.i

Sample Info: DF0804

Operator: LJR

Column phase: ZB-5

Column diameter: 0.25

Data File: df0804.d

Spectrum: Avg. Scans 312-314 (7.23), Background Scan 309

Location of Maximum: 198.00

Number of points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	104	132.00	167	224.00	30960	322.00	41
36.00	193	133.00	466	225.00	8338	323.00	5687
37.00	380	134.00	1065	227.00	10334	324.00	830
38.00	1590	135.00	3386	228.00	1446	325.00	119
39.00	10316	136.00	1562	229.00	2189	326.00	95
40.00	425	137.00	1212	230.00	311	327.00	1021
41.00	335	138.00	180	231.00	1054	328.00	547
43.00	227	139.00	580	233.00	313	329.00	137
44.00	211	140.00	405	234.00	557	331.00	40
45.00	202	141.00	4914	235.00	775	332.00	367
46.00	24	142.00	1661	236.00	744	333.00	546
47.00	77	143.00	949	237.00	875	334.00	3425
48.00	153	144.00	154	238.00	183	335.00	1088
50.00	29200	145.00	242	239.00	638	336.00	100
51.00	117304	146.00	698	240.00	494	337.00	64
52.00	6047	147.00	3045	241.00	763	339.00	109
53.00	380	148.00	5247	242.00	1902	340.00	117
55.00	1228	149.00	897	244.00	26648	341.00	727
56.00	3107	150.00	312	245.00	3816	342.00	125
57.00	7948	151.00	905	246.00	4009	346.00	1122
58.00	274	152.00	440	247.00	917	347.00	226
60.00	313	153.00	1416	248.00	292	348.00	65
61.00	1226	154.00	1605	249.00	1018	350.00	96
62.00	1199	155.00	2395	250.00	197	351.00	71
63.00	3460	156.00	4278	251.00	287	352.00	1862
64.00	146	157.00	1141	252.00	263	353.00	1254
65.00	1816	158.00	1118	253.00	618	354.00	1708
66.00	346	159.00	380	255.00	120568	355.00	354
67.00	14	160.00	1651	256.00	17008	356.00	62
69.00	117848	161.00	2422	257.00	1714	357.00	50
70.00	484	162.00	641	258.00	5492	358.00	44
71.00	265	163.00	453	259.00	948	359.00	236
73.00	1283	164.00	100	260.00	203	360.00	34
74.00	8041	165.00	1901	261.00	336	365.00	6669
75.00	15094	167.00	10942	263.00	177	366.00	1065

Date : 04-AUG-2006 09:53

Client ID:

Instrument: nt1.i

Sample Info: DF0804

Operator: LJR

Column phase: ZB-5

Column diameter: 0.25

Data File: df0804.d

Spectrum: Avg. Scans 312-314 (7.23), Background Scan 309

Location of Maximum: 198.00

Number of points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	610	168.00	4520	264.00	10	370.00	309
77.00	109344	169.00	1050	265.00	2375	371.00	342
78.00	7104	170.00	425	266.00	668	372.00	3218
79.00	6358	171.00	352	268.00	123	373.00	780
80.00	5009	172.00	1118	269.00	23	374.00	155
81.00	6496	173.00	1145	270.00	231	377.00	121
82.00	1587	174.00	2276	271.00	451	378.00	48
83.00	1619	175.00	3854	273.00	3728	379.00	74
85.00	1798	176.00	1631	274.00	10740	383.00	883
86.00	2108	177.00	1801	275.00	59576	384.00	252
87.00	635	179.00	7819	276.00	8737	385.00	68
88.00	273	180.00	5642	277.00	3970	386.00	41
89.00	165	181.00	2387	278.00	702	389.00	142
91.00	2045	182.00	391	279.00	348	390.00	342
92.00	1842	183.00	249	281.00	176	391.00	452
93.00	9941	184.00	779	282.00	182	392.00	229
94.00	638	185.00	460	283.00	607	393.00	131
95.00	664	186.00	30160	284.00	249	400.00	45
96.00	766	187.00	8078	285.00	556	402.00	1406
98.00	7107	188.00	1038	286.00	228	403.00	2105
99.00	5819	189.00	1454	288.00	144	404.00	700
100.00	419	190.00	411	289.00	251	406.00	58
101.00	4244	191.00	181	290.00	311	407.00	48
102.00	48	192.00	2691	291.00	318	408.00	44
103.00	1659	193.00	2495	292.00	197	411.00	39
104.00	2709	194.00	636	293.00	697	413.00	44
105.00	2115	195.00	132	294.00	364	415.00	128
107.00	27704	196.00	9213	296.00	13038	421.00	1715
108.00	4583	198.00	296960	297.00	1714	422.00	1202
110.00	74144	199.00	20000	298.00	35	423.00	13458
111.00	10557	200.00	1277	299.00	52	424.00	2775
112.00	828	201.00	1951	300.00	2	425.00	263
113.00	271	203.00	2161	301.00	187	426.00	43
114.00	203	204.00	8337	302.00	286	430.00	88
115.00	47	205.00	13190	303.00	1797	438.00	51

Date : 04-AUG-2006 09:53

Client ID:

Instrument: nt1.i

Sample Info: DF0804

Operator: LJR

Column phase: ZB-5

Column diameter: 0,25

Data File: df0804.d

Spectrum: Avg. Scans 312-314 (7.23), Background Scan 309

Location of Maximum: 198.00

Number of points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	19192	206.00	57200	304.00	498	441.00	44680
118.00	1479	207.00	7504	305.00	39	442.00	256256
119.00	426	208.00	1444	308.00	273	443.00	49200
120.00	408	209.00	417	309.00	191	444.00	4351
121.00	486	210.00	743	310.00	302	445.00	255
122.00	1998	211.00	2156	312.00	34	448.00	42
123.00	3039	212.00	37	313.00	237	459.00	60
124.00	1393	213.00	269	314.00	726	463.00	39
125.00	1411	215.00	619	315.00	1404	466.00	39
127.00	130368	217.00	13804	316.00	1213	472.00	40
128.00	10523	218.00	1843	317.00	304	483.00	40
129.00	48016	219.00	356	319.00	66	496.00	40
130.00	3762	221.00	18928	320.00	80		
131.00	1072	223.00	480	321.00	439		

Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20060804.b/ddt.b/df0804.d ARI ID: DF0804
Method: /chem3/nt1.i/20060804.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 04-AUG-2006 09:53 Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.730	433592
Benzidine	8.551	2972773
4,4'-DDE	8.817	7261
4,4'-DDD	9.236	71178
4,4'-DDT	9.615	970302

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

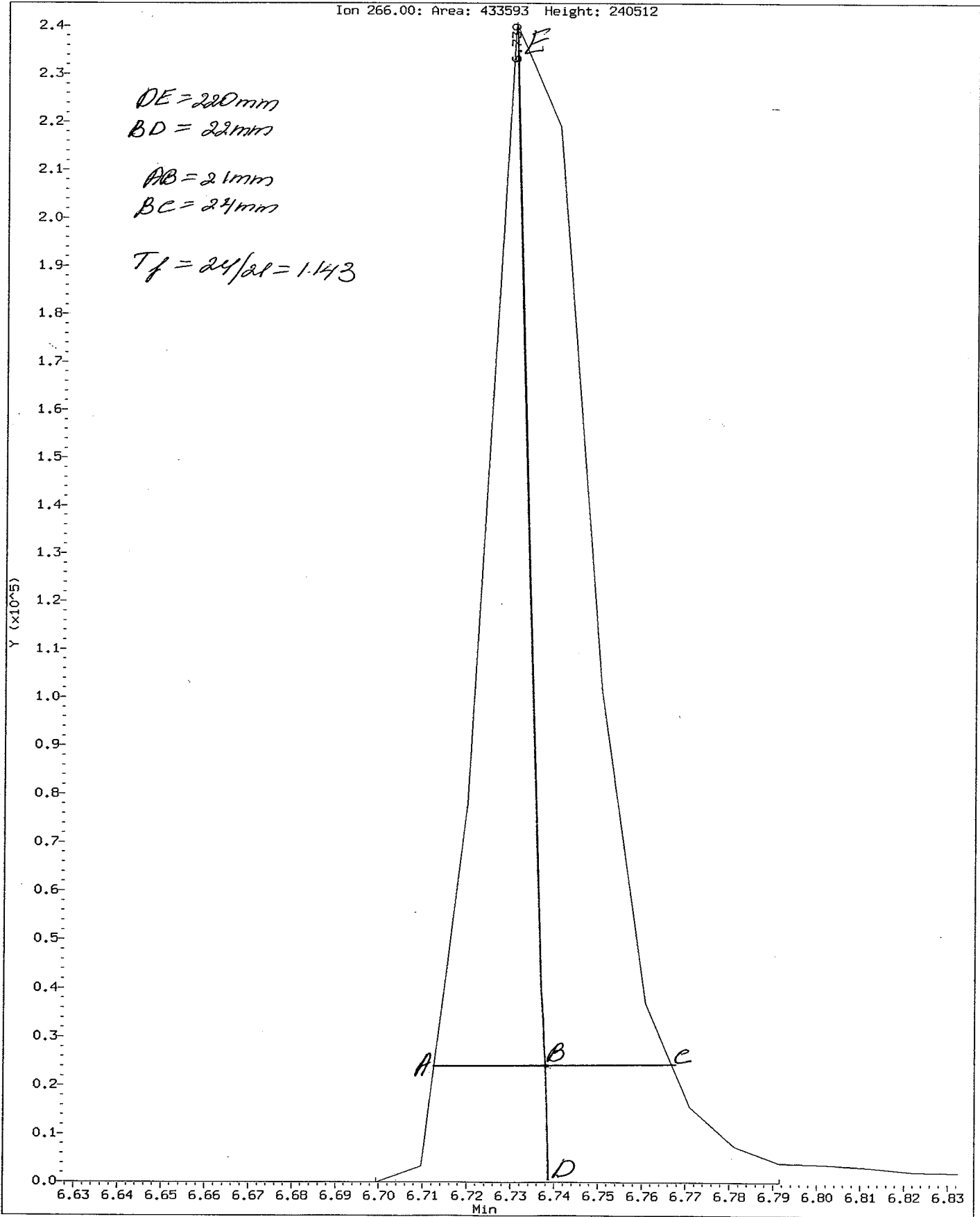
$$\text{DDT Percent Breakdown} = \frac{(7261 + 71178) * 100}{(7261 + 71178 + 970302)}$$

$$\text{DDT Percent Breakdown} = 7.5 \%$$

Data File: /chem3/nt1.i/20060804.b/ddt.b/d/f0804.d
Injection Date: 04-AUG-2006 09:53
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5

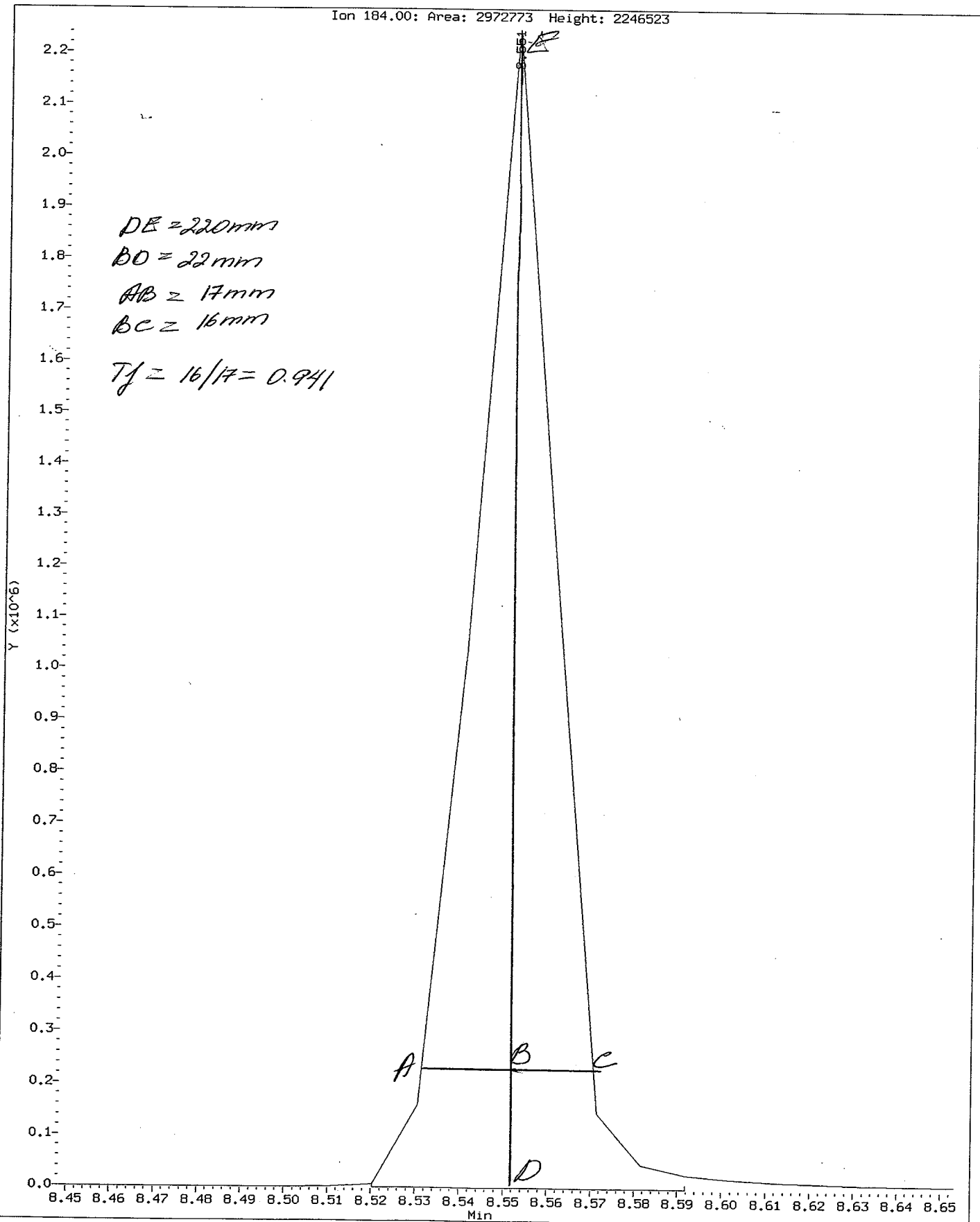
Ion 266.00: Area: 433593 Height: 240512



Data File: /chem3/nt1.i/20060804.b/ddt.b/d0804.d
Injection Date: 04-AUG-2006 09:53
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:

Ion 184.00: Area: 2972773 Height: 2246523



Data File: /chem3/nt1.i/20060831.b/df0831.d

Page 1

Date : 31-AUG-2006 11:20

Client ID:

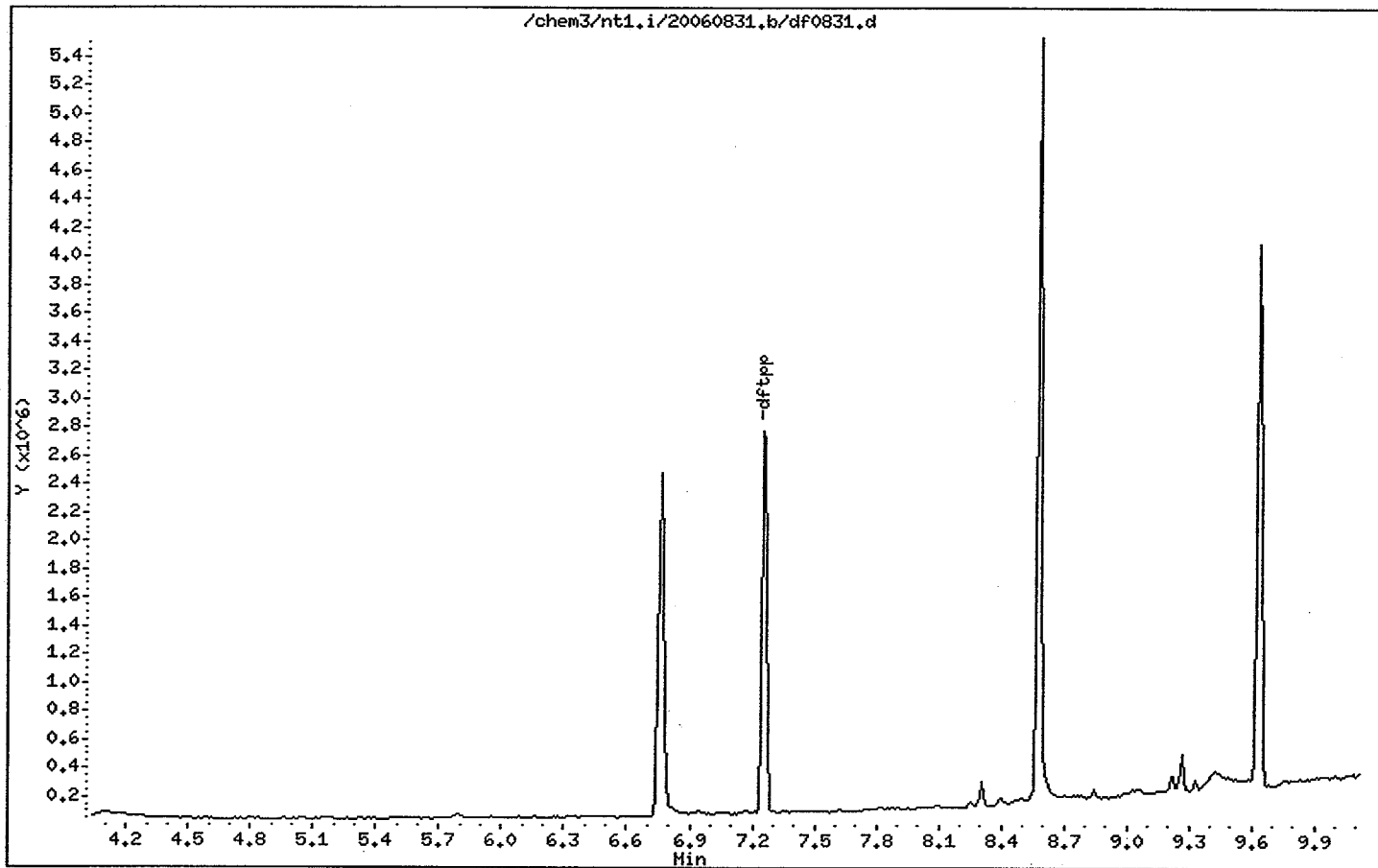
Instrument: nt1.i

Sample Info: DF0831

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25



Date : 31-AUG-2006 11:20

Client ID:

Instrument: nt1.i

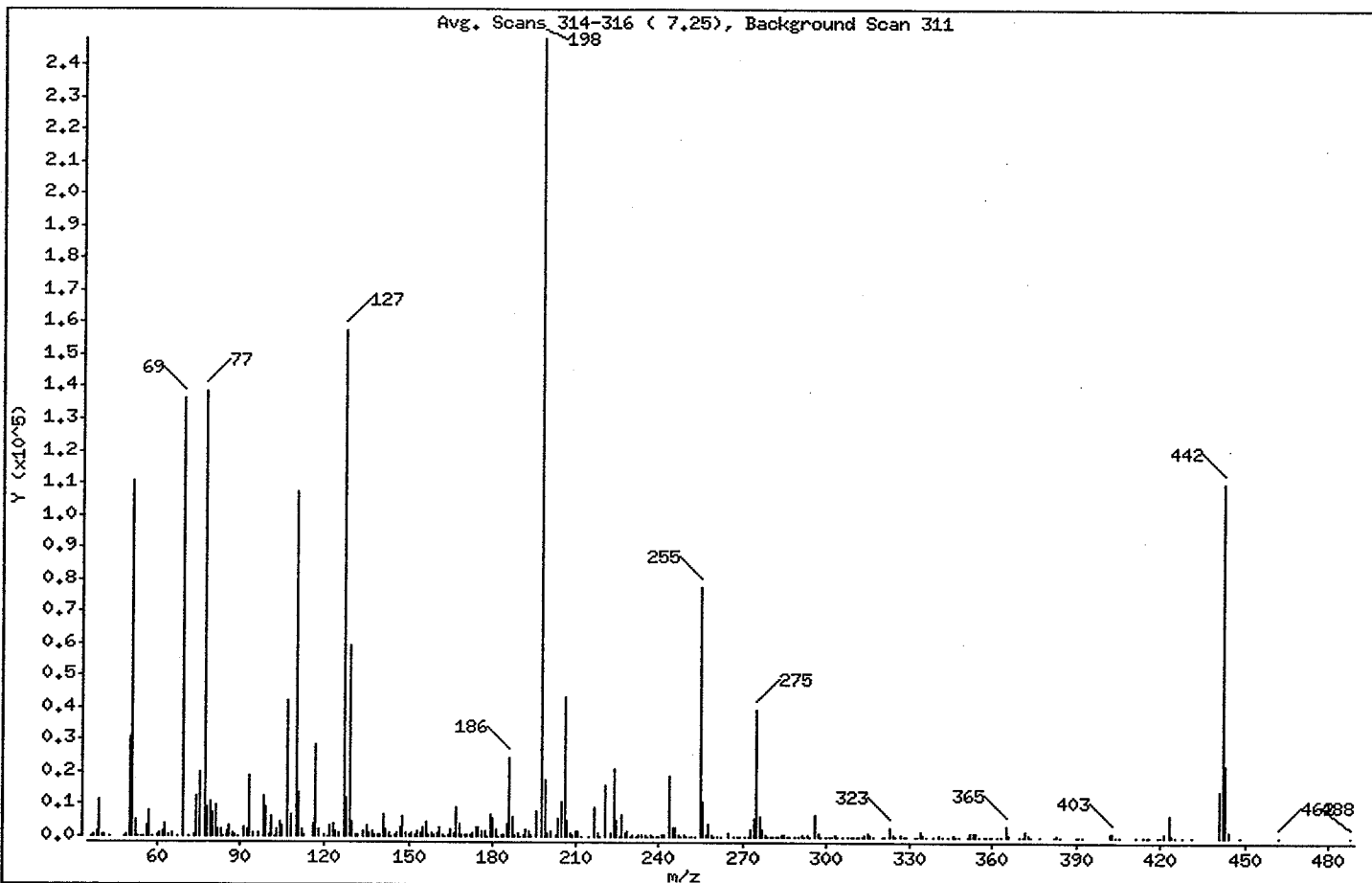
Sample Info: DF0831

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	44.71
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	54.84
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	63.48
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.24
275	10.00 - 30.00% of mass 198	15.81
365	Greater than 0.75% of mass 198	1.37
441	Present, but less than mass 443	5.83
442	40.00 - 110.00% of mass 198	44.43
443	15.00 - 24.00% of mass 442	8.93 (20.11)

Date : 31-AUG-2006 11:20

Client ID:

Instrument: nt1.i

Sample Info: DF0831

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0831.d

Spectrum: Avg. Scans 314-316 (7.25), Background Scan 311

Location of Maximum: 198.00

Number of points: 310

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	195	135.00	3136	219.00	184	310.00	145
37.00	374	136.00	1368	221.00	16003	311.00	84
38.00	1816	137.00	1701	223.00	1337	312.00	35
39.00	11240	138.00	373	224.00	20984	313.00	140
40.00	549	139.00	362	225.00	5155	314.00	451
41.00	488	140.00	394	226.00	101	315.00	878
43.00	176	141.00	6630	227.00	6927	316.00	467
48.00	47	142.00	2118	228.00	923	317.00	167
49.00	415	143.00	1116	229.00	1735	320.00	76
50.00	30632	144.00	223	230.00	70	321.00	221
51.00	110880	145.00	458	231.00	680	323.00	2831
52.00	4931	146.00	1333	232.00	40	324.00	329
53.00	146	147.00	2801	233.00	340	325.00	62
54.00	101	148.00	6096	234.00	431	327.00	621
55.00	189	149.00	1070	235.00	384	328.00	269
56.00	3310	150.00	525	236.00	271	329.00	196
57.00	7883	151.00	1020	237.00	641	332.00	126
58.00	274	152.00	788	238.00	66	333.00	282
60.00	383	153.00	1604	239.00	147	334.00	1778
61.00	1086	154.00	1126	240.00	130	335.00	343
62.00	1783	155.00	2968	241.00	356	336.00	53
63.00	3903	156.00	4648	242.00	736	339.00	35
64.00	550	157.00	655	244.00	18560	341.00	396
65.00	1241	158.00	914	245.00	2673	342.00	78
67.00	124	159.00	818	246.00	2599	344.00	38
69.00	136000	160.00	1338	247.00	683	346.00	319
71.00	126	161.00	3120	248.00	114	347.00	111
73.00	571	162.00	794	249.00	351	348.00	34
74.00	12583	163.00	5	250.00	146	351.00	53
75.00	19784	164.00	408	251.00	204	352.00	909
77.00	138752	165.00	2026	252.00	201	353.00	956
78.00	9128	166.00	1327	253.00	135	354.00	910
79.00	11004	167.00	8853	255.00	77416	355.00	6
80.00	7476	168.00	3843	256.00	11034	357.00	73
81.00	9843	169.00	698	257.00	573	358.00	46

Date : 31-AUG-2006 11:20

Client ID:

Instrument: nt1.i

Sample Info: DF0831

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0831.d

Spectrum: Avg. Scans 314-316 (7.25), Background Scan 311

Location of Maximum: 198.00

Number of points: 310

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	2113	170.00	589	258.00	3792	359.00	71
83.00	2483	171.00	390	259.00	612	360.00	40
84.00	206	172.00	770	260.00	221	362.00	49
85.00	1626	173.00	976	261.00	189	363.00	42
86.00	3412	174.00	2590	262.00	55	365.00	3401
87.00	1137	175.00	2908	265.00	1413	366.00	539
88.00	390	176.00	1521	267.00	61	370.00	107
89.00	44	177.00	1678	268.00	158	371.00	124
91.00	2989	178.00	8	269.00	192	372.00	1801
92.00	2121	179.00	6787	271.00	166	373.00	460
93.00	18560	180.00	5472	272.00	241	374.00	64
94.00	1340	181.00	2478	273.00	2539	377.00	63
96.00	912	182.00	188	274.00	5671	382.00	40
98.00	12667	183.00	337	275.00	39216	383.00	469
99.00	9188	184.00	316	276.00	6045	384.00	217
100.00	792	185.00	3779	277.00	2023	390.00	100
101.00	6147	186.00	24664	278.00	514	391.00	80
102.00	51	187.00	6452	279.00	129	392.00	226
103.00	2080	188.00	695	280.00	34	402.00	877
104.00	4447	189.00	1374	281.00	40	403.00	895
105.00	3359	190.00	42	282.00	145	404.00	253
107.00	42248	191.00	689	283.00	188	405.00	43
108.00	7031	192.00	2180	284.00	304	411.00	34
110.00	107248	193.00	1964	285.00	506	414.00	52
111.00	13721	194.00	315	286.00	139	415.00	43
112.00	2041	196.00	8060	287.00	35	416.00	41
113.00	714	198.00	248000	289.00	95	419.00	37
116.00	3782	199.00	17952	290.00	80	420.00	41
117.00	28504	200.00	1116	291.00	306	421.00	916
118.00	2243	201.00	1513	292.00	108	423.00	6583
120.00	764	203.00	767	293.00	600	424.00	855
121.00	204	204.00	5542	294.00	229	425.00	99
122.00	3600	205.00	10669	296.00	7011	428.00	41
123.00	4128	206.00	43144	297.00	1247	431.00	51
124.00	1847	207.00	4955	298.00	156	441.00	14461

Data File: /chem3/nt1.i/20060831.b/df0831.d

Page 5

Date : 31-AUG-2006 11:20

Client ID:

Instrument: nt1.i

Sample Info: DF0831

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0831.d

Spectrum: Avg. Scans 314-316 (7.25), Background Scan 311

Location of Maximum: 198.00

Number of points: 310

m/z	Y	m/z	Y	m/z	Y	m/z	Y
125.00	1206	208.00	1162	300.00	37	442.00	110184
127.00	157440	209.00	466	301.00	267	443.00	22152
128.00	11970	210.00	1812	302.00	209	444.00	1761
129.00	59384	211.00	1702	303.00	674	448.00	34
130.00	4633	212.00	46	304.00	250	462.00	36
131.00	674	215.00	195	306.00	52	488.00	46
132.00	577	217.00	9146	308.00	12		
134.00	1595	218.00	1183	309.00	68		

Data File: /chem3/nt1.i/20060901.b/df0901.d

Page 1

Date : 01-SEP-2006 11:13

Client ID:

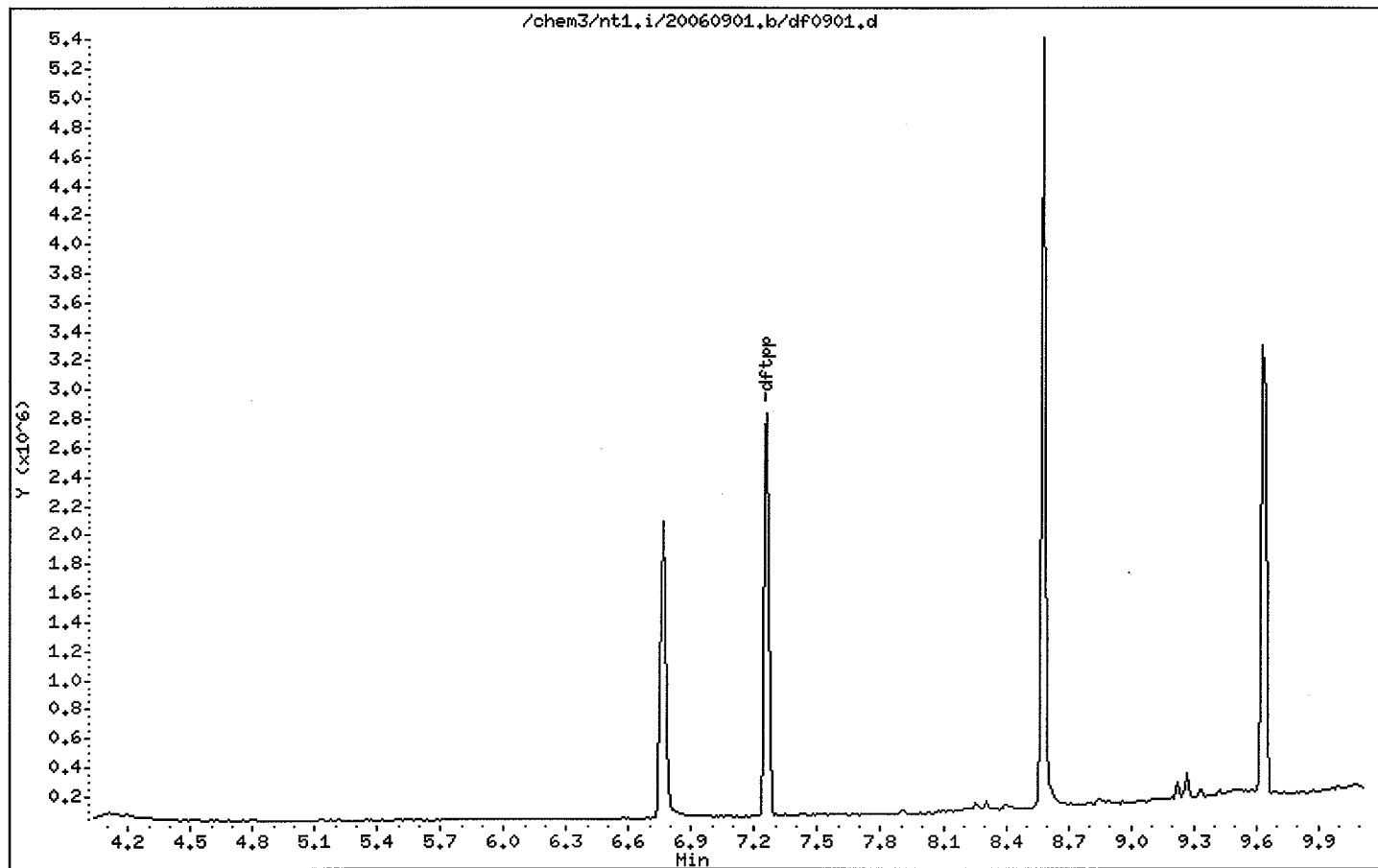
Instrument: nt1.i

Sample Info: DF0901

Operator: VTS

Column phase: ZB-5

Column diameter: 0,25



Date : 01-SEP-2006 11:13

Client ID:

Instrument: nt1.i

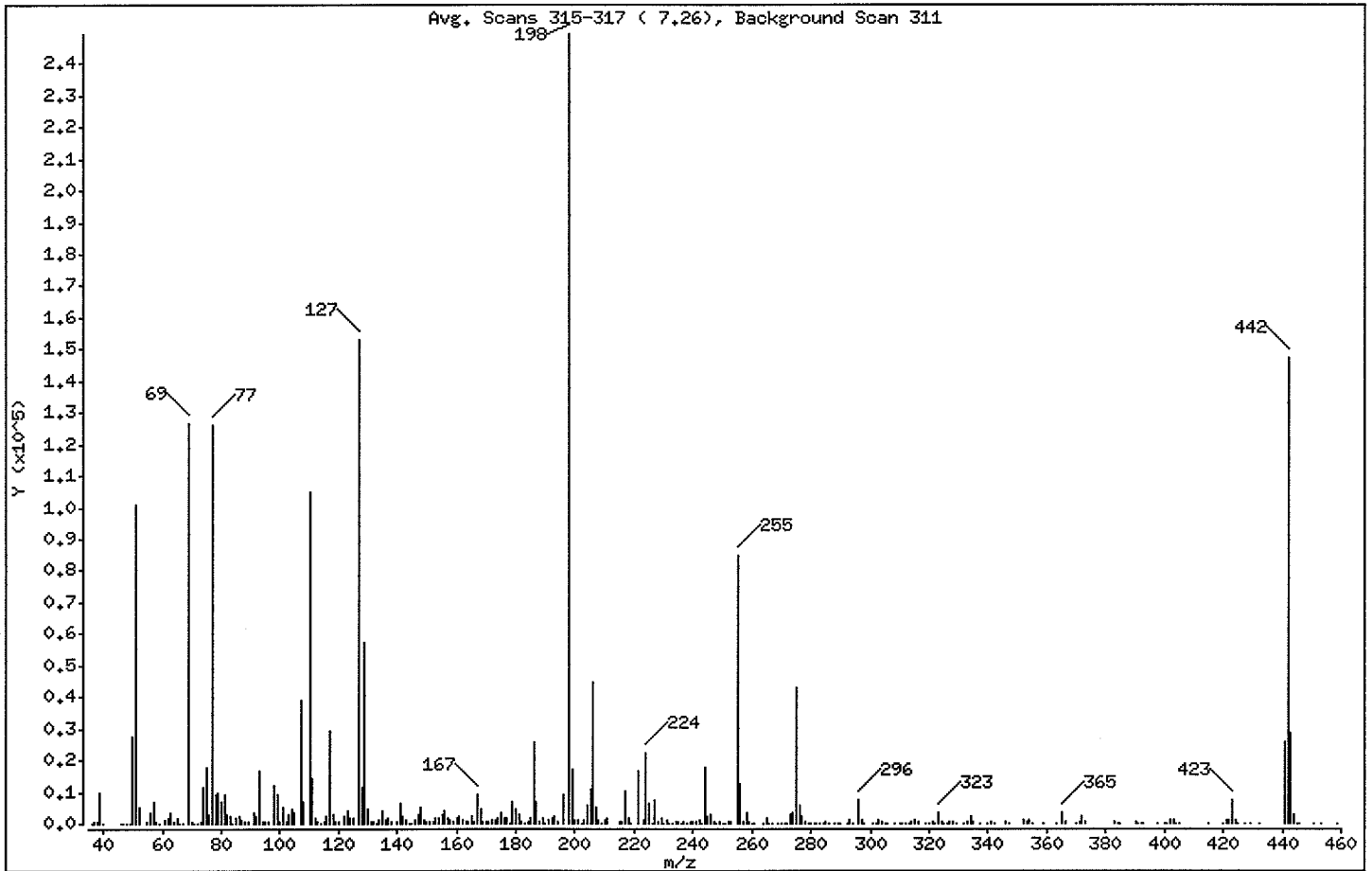
Sample Info: DF0901

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	40.45
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	50.81
70	Less than 2.00% of mass 69	0.28 (0.56)
127	25.00 - 75.00% of mass 198	61.42
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.88
275	10.00 - 30.00% of mass 198	17.26
365	Greater than 0.75% of mass 198	1.49
441	Present, but less than mass 443	10.29
442	40.00 - 110.00% of mass 198	59.07
443	15.00 - 24.00% of mass 442	11.52 (19.51)

Date : 01-SEP-2006 11:13

Client ID:

Instrument: nt1.i

Sample Info: DF0901

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0901.d
 Spectrum: Avg. Scans 315-317 (7.26), Background Scan 311
 Location of Maximum: 198.00
 Number of points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	172	130.00	4808	215.00	448	305.00	55
37.00	476	131.00	731	216.00	577	306.00	90
38.00	585	132.00	388	217.00	10575	308.00	158
39.00	9827	133.00	158	218.00	1450	310.00	46
40.00	127	134.00	1193	219.00	252	311.00	34
46.00	112	135.00	3903	221.00	16440	312.00	126
47.00	177	136.00	1201	223.00	1216	313.00	158
48.00	61	137.00	1756	224.00	22216	314.00	482
49.00	61	138.00	556	225.00	6048	315.00	882
50.00	27312	140.00	408	226.00	80	316.00	391
51.00	100864	141.00	6443	227.00	7336	319.00	47
52.00	5283	142.00	2469	228.00	782	320.00	36
55.00	375	143.00	1112	229.00	1812	321.00	311
56.00	3287	144.00	131	230.00	189	322.00	83
57.00	6837	145.00	205	231.00	1000	323.00	3474
58.00	337	146.00	1140	232.00	111	324.00	732
59.00	195	147.00	2899	233.00	216	325.00	79
61.00	1084	148.00	4891	234.00	478	326.00	46
62.00	1610	149.00	1251	235.00	433	327.00	706
63.00	3357	150.00	432	236.00	155	328.00	359
64.00	523	151.00	341	237.00	767	329.00	42
65.00	1888	152.00	542	238.00	223	332.00	187
66.00	175	153.00	1678	239.00	423	333.00	319
67.00	197	154.00	1448	240.00	347	334.00	2041
69.00	126704	155.00	2645	241.00	349	335.00	507
70.00	707	156.00	3880	242.00	1187	337.00	89
71.00	265	157.00	1729	243.00	263	340.00	48
72.00	263	158.00	939	244.00	18024	341.00	319
73.00	328	159.00	598	245.00	2128	342.00	142
74.00	11332	160.00	1757	246.00	2663	346.00	658
75.00	17600	161.00	2565	247.00	525	347.00	45
76.00	2598	162.00	870	248.00	125	352.00	1087
77.00	126312	163.00	436	249.00	575	353.00	788
78.00	8922	164.00	346	250.00	191	354.00	1013
79.00	9879	165.00	2183	251.00	92	355.00	258

Date : 01-SEP-2006 11:13

Client ID:

Instrument: nt1.i

Sample Info: DF0901

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0901.d
 Spectrum: Avg. Scans 315-317 (7.26), Background Scan 311
 Location of Maximum: 198.00
 Number of points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	6699	166.00	594	252.00	303	359.00	37
81.00	9454	167.00	8909	253.00	656	363.00	54
82.00	2902	168.00	4823	255.00	84808	365.00	3709
83.00	2417	169.00	768	256.00	12611	366.00	406
84.00	30	170.00	383	257.00	613	370.00	62
85.00	1626	171.00	477	258.00	3456	371.00	310
86.00	2352	172.00	983	259.00	621	372.00	2032
87.00	1242	173.00	1136	260.00	75	373.00	423
88.00	709	174.00	1922	261.00	211	383.00	446
89.00	337	175.00	3471	264.00	54	384.00	274
91.00	3397	176.00	1584	265.00	1667	385.00	55
92.00	2267	177.00	1967	266.00	254	390.00	288
93.00	16400	178.00	13	267.00	47	391.00	238
94.00	817	179.00	7074	269.00	55	392.00	75
95.00	385	180.00	4434	270.00	115	393.00	34
96.00	766	181.00	2817	271.00	161	398.00	34
98.00	12031	182.00	382	272.00	144	400.00	62
99.00	9234	183.00	261	273.00	2761	401.00	87
100.00	765	184.00	474	274.00	3507	402.00	910
101.00	5342	185.00	1774	275.00	43032	403.00	1085
102.00	390	186.00	25936	276.00	5883	404.00	216
103.00	2890	187.00	6592	277.00	2333	405.00	40
104.00	4311	188.00	705	278.00	379	415.00	44
105.00	3288	189.00	1593	279.00	36	420.00	53
107.00	39264	190.00	38	280.00	110	421.00	895
108.00	6596	191.00	904	281.00	156	422.00	891
110.00	104872	192.00	1574	282.00	175	423.00	7408
111.00	14177	193.00	2035	283.00	266	424.00	1264
112.00	1543	194.00	737	284.00	148	425.00	49
113.00	601	196.00	9070	285.00	602	427.00	38
114.00	94	198.00	249344	286.00	71	429.00	36
115.00	366	199.00	17152	288.00	52	432.00	33
116.00	2466	200.00	1078	289.00	111	441.00	25656
117.00	28960	201.00	1392	290.00	151	442.00	147264
118.00	2696	202.00	49	292.00	63	443.00	28728

Data File: /chem3/nt1.i/20060901.b/df0901.d

Page 5

Date : 01-SEP-2006 11:13

Client ID:

Instrument: nt1.i

Sample Info: DF0901

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0901.d

Spectrum: Avg. Scans 315-317 (7.26), Background Scan 311

Location of Maximum: 198.00

Number of points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	558	203.00	1073	293.00	880	444.00	2664
120.00	486	204.00	5998	294.00	174	445.00	49
122.00	2184	205.00	10737	296.00	7385	446.00	39
123.00	4105	206.00	44872	297.00	1216	451.00	41
124.00	1866	207.00	5415	298.00	103	453.00	37
125.00	1621	208.00	1266	301.00	160	459.00	33
127.00	153088	209.00	241	302.00	188		
128.00	11686	210.00	880	303.00	1003		
129.00	57048	211.00	1973	304.00	300		

ORGANICS ANALYSIS DATA SHEET

PNA's by SW8270D-SIM GC/MS

Page 1 of 1



Sample ID: MB-082506

METHOD BLANK

Lab Sample ID: MB-082506

LIMS ID: 06-15219

Matrix: Sediment

Data Release Authorized:

Reported: 09/04/06

QC Report No: JT82-Anchor Environmental

Project: T-4 EARLY ACTION

Event: 050332-01

Date Sampled: NA

Date Received: NA

Date Extracted: 08/25/06

Date Analyzed: 08/31/06 12:12

Instrument/Analyst: NT1/VTS

GPC Cleanup: No

Silica Gel Cleanup: Yes

Sample Amount: 10.0 g-dry-wt

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

Percent Moisture: NA

pH: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	5.0	< 5.0 U
90-12-0	1-Methylnaphthalene	5.0	< 5.0 U
208-96-8	Acenaphthylene	5.0	< 5.0 U
83-32-9	Acenaphthene	5.0	< 5.0 U
86-73-7	Fluorene	5.0	< 5.0 U
85-01-8	Phenanthrene	5.0	< 5.0 U
120-12-7	Anthracene	5.0	< 5.0 U
206-44-0	Fluoranthene	5.0	< 5.0 U
129-00-0	Pyrene	5.0	< 5.0 U
56-55-3	Benzo (a) anthracene	5.0	< 5.0 U
218-01-9	Chrysene	5.0	< 5.0 U
205-99-2	Benzo (b) fluoranthene	5.0	< 5.0 U
207-08-9	Benzo (k) fluoranthene	5.0	< 5.0 U
50-32-8	Benzo (a) pyrene	5.0	< 5.0 U
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	< 5.0 U
53-70-3	Dibenz (a,h) anthracene	5.0	< 5.0 U
191-24-2	Benzo (g,h,i) perylene	5.0	< 5.0 U
198-55-0	Perylene	5.0	< 5.0 U
92-52-4	Biphenyl	5.0	< 5.0 U
581-42-0	2,6-Dimethylnaphthalene	5.0	< 5.0 U
832-69-9	1-Methylphenanthrene	5.0	< 5.0 U
192-97-2	Benzo (e) pyrene	5.0	< 5.0 U
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	< 5.0 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 83.0%
 d14-Dibenzo (a,h) anthracen 91.7%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring
 Data file : /chem3/nt1.i/20060831.b/jt82mb.d
 Lab Smp Id: JT82MBS1 Client Smp ID: JT82MBS1
 Inj Date : 31-AUG-2006 12:12
 Operator : VTS Inst ID: nt1.i
 Smp Info : JT82MBS1
 Misc Info : 06-15219
 Comment : 1ul Injection
 Method : /chem3/nt1.i/20060831.b/simpna.m
 Meth Date : 01-Sep-2006 09:35 van Quant Type: ISTD
 Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnat4.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	10.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
* 1 Naphthalene-d8	136		6.825	6.823	(1.000)	361179	2.00000	
2 Naphthalene	128		Compound Not Detected.					
\$ 3 2-Methylnaphthalene-d10	152		7.582	7.580	(1.111)	231729	2.49095	124.5
4 2-Methylnaphthalene	142		Compound Not Detected.					
5 1-Methylnaphthalene	142		Compound Not Detected.					
7 Acenaphthylene	152		Compound Not Detected.					
* 8 Acenaphthene-d10	164		8.888	8.886	(1.000)	173904	2.00000	
9 Acenaphthene	153		Compound Not Detected.					
10 Dibenzofuran	168		Compound Not Detected.					
11 Fluorene	166		Compound Not Detected.					
* 15 Phenanthrene-d10	188		10.696	10.694	(1.000)	230286	2.00000	
16 Phenanthrene	178		Compound Not Detected.					
17 Anthracene	178		Compound Not Detected.					
19 Fluoranthene	202		Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/kg)
20 Pyrene	202						
22 Benzo(a)anthracene	228						
* 23 Chrysene-d12	240	14.006	14.004	(1.000)	168570	2.00000	
24 Chrysene	228						
28 Benzo(b)fluoranthene	252						
29 Benzo(k)fluoranthene	252						
30 Benzo(a)pyrene	252						
* 31 Perylene-d12	264	15.927	15.925	(1.000)	163639	2.00000	
33 Indeno(1,2,3-cd)pyrene	276						
\$ 32 Dibenz(a,h)anthracene-d14	292	17.771	17.763	(1.116)	172198	2.74970	137.5
34 Dibenz(a,h)anthracene	278						
35 Benzo(g,h,i)perylene	276						
48 Biphenyl	154						
49 2,6-Dimethylnaphthalene	156						
50 2,3,5-Trimethylnaphthalene	170						
51 1-Methylphenanthrene	192						
52 Benzo(e)pyrene	252						
53 Perylene	252						

VTS
 9.1.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt1.i
 Lab File ID: jt82mb.d
 Lab Smp Id: JT82MBS1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt1.i/20060831.b/simpna.m
 Misc Info: 06-15219

Calibration Date: 31-AUG-2006
 Calibration Time: 11:36
 Client Smp ID: JT82MBS1
 Level: LOW
 Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	330618	165309	661236	361179	9.24
8 Acenaphthene-d10	168464	84232	336928	173904	3.23
15 Phenanthrene-d10	226331	113166	452662	230286	1.75
23 Chrysene-d12	170894	85447	341788	168570	-1.36
31 Perylene-d12	178548	89274	357096	163639	-8.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	6.82	6.32	7.32	6.83	0.03
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	0.02
15 Phenanthrene-d10	10.69	10.19	11.19	10.70	0.02
23 Chrysene-d12	14.00	13.50	14.50	14.01	0.01
31 Perylene-d12	15.92	15.42	16.42	15.93	0.01

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82MBS1
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060831.b/simpna.m
Misc Info: 06-15219

Client SDG: JT82
Fraction: SV
Client Smp ID: JT82MBS1
Operator: VTS
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 3 2-Methylnaphthalen	150.0	124.5	83.03	32-97
\$ 32 Dibenz(a,h)anthran	150.0	137.5	91.66	21-105

Data File: /chem3/nt1.i/20060831.b/jt82mb.d

Date: 31-AUG-2006 12:12

Client ID: JT82MBS1

Sample Info: JT82MBS1

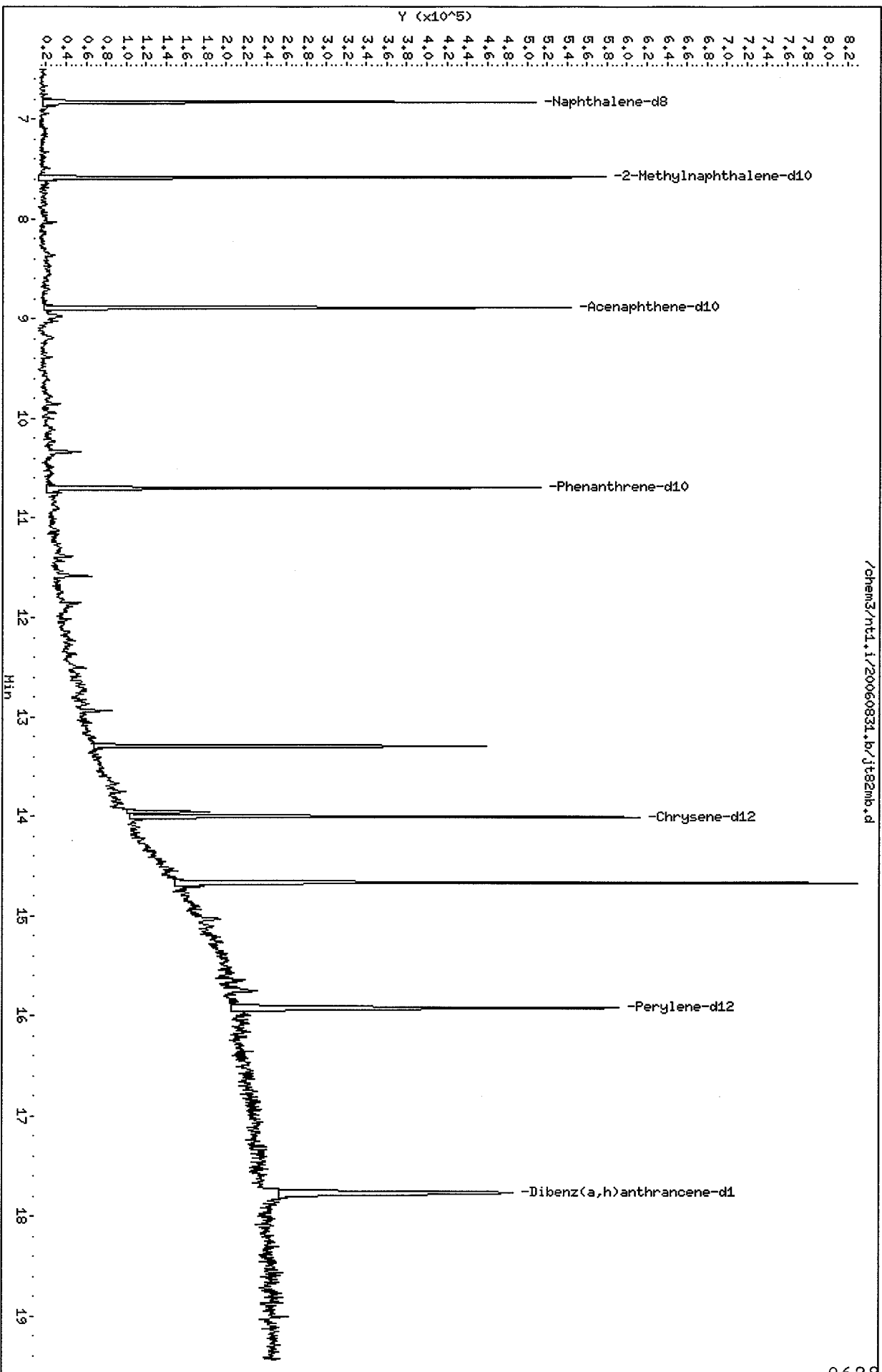
Volume Injected (uL): 1.0

Column phase: ZB-5

Instrument: nt1.i

Operator: VTS

Column diameter: 0.25



Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring
 Data file : /chem3/nt1.i/20060831.b/jt82sb.d
 Lab Smp Id: JT82LCSS1 Client Smp ID: JT82LCSS1
 Inj Date : 31-AUG-2006 12:37
 Operator : VTS Inst ID: nt1.i
 Smp Info : VT82LCSS1
 Misc Info : 06-15219
 Comment : 1ul Injection
 Method : /chem3/nt1.i/20060831.b/simpna.m
 Meth Date : 01-Sep-2006 09:35 van Quant Type: ISTD
 Cal Date : 04-AUG-2006 12:28 Cal File: ic0806f.d
 Als bottle: 2 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnat4.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100-M) / 100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	10.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/kg)
* 1 Naphthalene-d8	136		6.826	6.823	(1.000)	335577	2.00000	
2 Naphthalene	128		6.849	6.847	(1.003)	353533	2.11210	105.6
\$ 3 2-Methylnaphthalene-d10	152		7.582	7.580	(1.111)	192538	2.22757	111.4
4 2-Methylnaphthalene	142		7.623	7.621	(1.117)	207361	2.09188	104.6
5 1-Methylnaphthalene	142		7.753	7.751	(1.136)	199500	1.91868	95.93
7 Acenaphthylene	152		8.705	8.703	(0.980)	312465	2.16497	108.2
* 8 Acenaphthene-d10	164		8.882	8.886	(1.000)	174080	2.00000	
9 Acenaphthene	153		8.924	8.921	(1.005)	192717	2.25463	112.7
10 Dibenzofuran	168		9.113	9.111	(1.026)	255407	2.02858	101.4
11 Fluorene	166		9.532	9.536	(1.073)	222765	2.27278	113.6
* 15 Phenanthrene-d10	188		10.697	10.694	(1.000)	233367	2.00000	
16 Phenanthrene	178		10.720	10.724	(1.002)	319017	2.66328	133.2
17 Anthracene	178		10.779	10.777	(1.008)	308103	2.57387	128.7
19 Fluoranthene	202		12.216	12.213	(1.142)	292672	2.39549	119.8

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/kg)
20 Pyrene	202	12.505	12.503	(0.893)	315890	2.93990	147.0
22 Benzo(a)anthracene	228	13.983	13.980	(0.999)	269910	2.67859	133.9
* 23 Chrysene-d12	240	14.000	14.004	(1.000)	167333	2.00000	
24 Chrysene	228	14.036	14.034	(1.003)	264602	2.84697	142.3
28 Benzo(b)fluoranthene	252	15.354	15.352	(0.964)	270065	2.85206	142.6
29 Benzo(k)fluoranthene	252	15.389	15.387	(0.967)	273880	2.71303	135.7
30 Benzo(a)pyrene	252	15.838	15.836	(0.995)	227466	2.46529	123.3
* 31 Perylene-d12	264	15.921	15.925	(1.000)	167780	2.00000	
33 Indeno(1,2,3-cd)pyrene	276	17.842	17.834	(1.121)	260266	2.45286	122.6
\$ 32 Dibenz(a,h)anthracene-d14	292	17.765	17.763	(1.116)	171984	2.67850	133.9
34 Dibenz(a,h)anthracene	278	17.836	17.828	(1.120)	221218	2.55206	127.6
35 Benzo(g,h,i)perylene	276	18.409	18.401	(1.156)	238174	2.70031	135.0
48 Biphenyl	154				Compound Not Detected.		
49 2,6-Dimethylnaphthalene	156				Compound Not Detected.		
50 2,3,5-Trimethylnaphthalene	170				Compound Not Detected.		
51 1-Methylphenanthrene	192				Compound Not Detected.		
52 Benzo(e)pyrene	252				Compound Not Detected.		
53 Perylene	252				Compound Not Detected.		

VTS
 9.1.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt1.i
 Lab File ID: jt82sb.d
 Lab Smp Id: JT82LCSS1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: /chem3/nt1.i/20060831.b/simpna.m
 Misc Info: 06-15219

Calibration Date: 31-AUG-2006
 Calibration Time: 11:36
 Client Smp ID: JT82LCSS1
 Level: LOW
 Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	330618	165309	661236	335577	1.50
8 Acenaphthene-d10	168464	84232	336928	174080	3.33
15 Phenanthrene-d10	226331	113166	452662	233367	3.11
23 Chrysene-d12	170894	85447	341788	167333	-2.08
31 Perylene-d12	178548	89274	357096	167780	-6.03

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	6.82	6.32	7.32	6.83	0.03
8 Acenaphthene-d10	8.89	8.39	9.39	8.88	-0.04
15 Phenanthrene-d10	10.69	10.19	11.19	10.70	0.02
23 Chrysene-d12	14.00	13.50	14.50	14.00	-0.03
31 Perylene-d12	15.92	15.42	16.42	15.92	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JT82LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060831.b/simpna.m
Misc Info: 06-15219

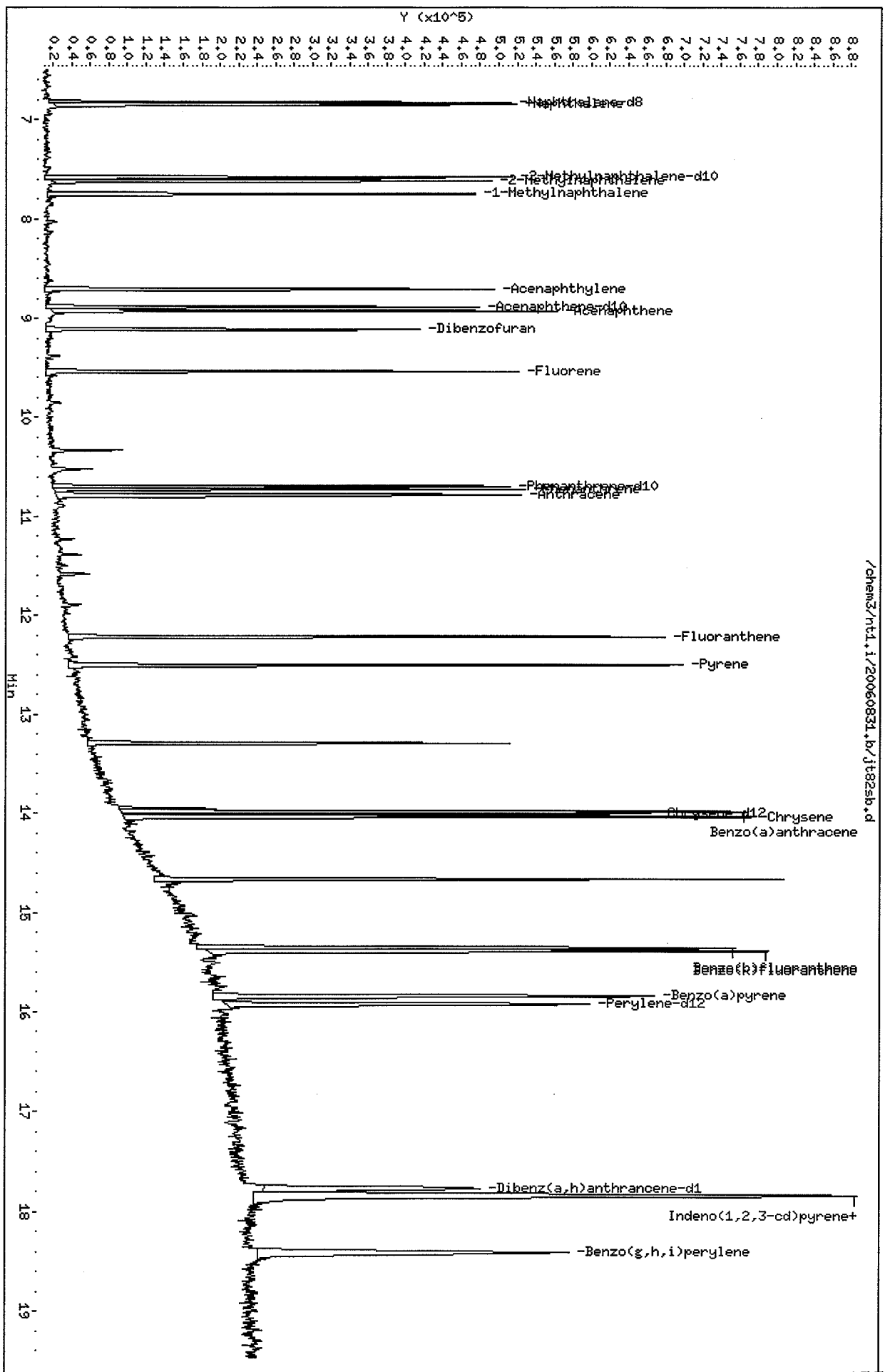
Client SDG: JT82
Fraction: SV
Client Smp ID: JT82LCSS1
Operator: VTS
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
16 Phenanthrene	150.0	133.2	88.78	46-107
24 Chrysene	150.0	142.3	94.90	49-108
29 Benzo(k)fluoranthene	150.0	135.7	90.43	37-94

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 3 2-Methylnaphthalen	150.0	111.4	74.25	32-97
\$ 32 Dibenz(a,h)anthran	150.0	133.9	89.28	21-105

Data File: /chem3/nt1.i/20060831.b/jt82sb.d
 Date : 31-AUG-2006 12:37
 Client ID: JT82LCSS1
 Sample Info: JT82LCSS1
 Volume Injected (uL): 1.0
 Column phase: ZB-5

Instrument: nt1.i
 Operator: VTS
 Column diameter: 0.25



**SIM Semivolatile Analysis
Extraction Bench Sheets/Run Logs**

**prepared
for**

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

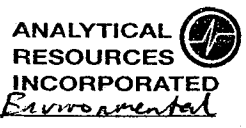
ARI JOB NO: JT82

**prepared
by**

Analytical Resources, Inc.

QA LIMs # _____
 EXT LIMs # _____
 Bid # 8M08228-01

(8270)PNA/ SIM PNA/(8310)PNA- Soil/Sediment
 In House _____ PSDDA _____ Pro-Sep LVI X
 (3550B) Microtip _____
 (3550B) Macrotip _____
 KD _____
 Turbovap _____
 ARI Job No(s): JT82 Silica



Client Name: Anehar Environmental

Extraction Requirements (ARI Lab ID)	Client Sample ID	Amount Extracted (g)	GPC Aliquot #1/#2	Alumina Aliquot (g)	Final Effective Volume	Volume To Lab	Time Extracted Comments
MB: <u>JT82MBS</u>	<u>8-25-06</u>	<u>10.00</u>			<u>0.5ml</u>	<u>0.5ml</u>	
SB: <u>SBS</u>	<u>8-25-06</u>	<u>10.00</u>					
<u>A</u>	<u>verified</u>	<u>15.02</u>					
<u>B</u>		<u>15.04</u>					
<u>C</u>		<u>16.04</u>					
<u>D</u>		<u>13.50</u>					
<u>E</u>		<u>13.04</u>					
<u>EMS</u>		<u>13.02</u>					
<u>EMSD</u>		<u>13.02</u>					<u>See Note</u>
<u>I</u>		<u>2.00</u>					

Date/Analyst: GAN 8-25-06 TH08/06 grob/06/06 →

KD/NC/8/28/06

Surrogate Amount: 50 µl Added By: GAN /Spk. Witness PC
 Concentration: 30/150 µg/ml ID: 1408-4
 SB Spike Amount: 50 µl Added By: GAN /Spk. Witness PC
 Concentration: 20/150 µg/ml ID: 1393-3

(DCM) Solvent Lot ID: I3241
 (Acetonitrile) Solvent Lot ID: _____
 (1:1 DCM/Acetone) Reagent ID: P506
 (2%) Alumina ID: _____
 Na2So4 ID: P3205/1 #1 8/16
 Neutral glasswool ID: 6-7#3/#6/05

3007F Spk Amt: 50 µl
 Conc: 30 µg/ml
 ID: 1254-4B
 Added: GAN
 Witness: PC

Revision 6
7/29/03



ANALYST NOTES - Organic Extractions

ARI Job No: 5782

Client Name: Anchor Environmental

Parameter: SIM PNA low level

Client Project: T-4 Early Action

3575

SOP Number(s)

No Anomalies

List problems, corrective actions, and any other pertinent information:

A - wet sticky clay
B - same
C - same, discarded standing H₂O, slight sulfur odor
E - same as C" TH 8/21/06
EMSD - Greenish color (EMSL) DON'T LOOK SAME ^{copy} (Pm) TH 8/30/06

Extraction

Analyst: _____

Date Extracted: _____

See Reverse Side for Additional Information



GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: JT82 Client ID: Anchor

ARI SOP: 801S(SIM-PNA) 802S(BTS-HX) 803S(BTS-PW) 804S(8270D) 805S(BTS-ET)

Parameter(s): Simp PNAS

Instrument: NT-1 NT-2 NT-4 NT-6

Curve Date: 8.4.2006 Analysis Start Date: 9.1.2006

DFTPP Tune Meets Criteria?	<u>YES</u> / NO	Method Blank in Control?	<u>YES</u> / NO
DDT Breakdown <20%?	<u>YES</u> / NO / NA	<u>LCS</u> / LCSD Recovery in Control?	<u>YES</u> / NO
Peak Tailing Factor in Control?	<u>YES</u> / NO / NA	<u>MS/MSD</u> Recovery in Control?	YES / <u>NO</u>
ICal Meets RF & %RSD Criteria?	<u>YES</u> / NO	Surrogate Recovery in Control?	<u>YES</u> / NO
CCal Meets RF & %RSD Criteria?	<u>YES</u> / NO	Special Analysis Criteria Met?	<u>YES</u> / NO / NA
Internal Standard Meets Criteria?	<u>YES</u> / NO		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Samples A, C showed E values.
See ADL @ SOX and CdL @ IOX
- EMS, EMSD NOT reported as they were improperly spiked.
QC to be Added to next batch for Anchor.
- "Y" flags for several methylphenanthrene hits due to sulfur background.
- Includes curve, forms, Labbook pages.

Additional Details on Reverse: Yes / No

Analyst Signature: [Signature] Date: 9.4.2006

Reviewer's Signature: [Signature] Date: 9/4/06

Analytical Resources Inc.: Organics Instrument Log
NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 8/14/2006 Analysis: SIM PND Analyst: VZ

GC Program: HT SIM PND Column No: 97876 Column Type: ZB-5

Instrument Tune (.U or .CT.): 12/6/04 EM Voltage: 1700

Calibration File: DF 08 04 Curve Date: 08/04/06

IS/SS (1408-03) Ical/Ccal (1409-09) LCS/ICV (1330-01 d 20x)

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.i/20060804.b

Time	Filename	LabID	ClientId	DF																
1	0953	df0804.d	DF0804		1		NO	ISTDS	FOUND											
2	1025	ic0803a.d	IC0803A		1		6.88	222814		8.95	123591		10.76	200797		14.08	171210		16.03	183426
3	1049	ic0803b.d	IC0803B		1		6.88	258376		8.95	134818		10.76	213897		14.08	186768		16.03	190332
4	1114	ic0803c.d	IC0803C		1		6.88	240196		8.95	130781		10.75	214296		14.07	190807		16.02	191469
5	1139	ic0804d.d	IC0803D		1		6.88	245793		8.95	134787		10.76	216386		14.07	183473		16.03	196521
6	1204	ic0805e.d	IC0803E		1		6.88	305770		8.95	166121		10.76	269899		14.07	235891		16.03	239658
7	1228	ic0806f.d	IC0803F		1		6.88	245095		8.95	131758		10.76	219114		14.07	191517		16.03	197414
8	1253	jp87mb.d	JP87MBW1	JP87MBW1	1		6.88	228604		8.95	127686		10.76	211581		14.08	191918		16.03	195235
9	1318	jp87ab.d	JP87LCSW1	JP87LCSW1	1		6.88	303611		8.95	159367		10.76	257063		14.07	220410		16.03	214214
10	1343	jp87ad.d	JP87AD		1		6.88	270931		8.95	140164		10.76	231423		14.08	208242		16.03	193229
11	1408	jq33mb.d	JQ33MBS1	JQ33MBS1	1		6.88	232087		8.95	116948		10.76	201358		14.07	181056		16.03	177519
12	1433	jq33ab.d	JQ33LCSS1	JQ33LCSS1	1		6.88	242062		8.95	131310		10.76	217726		14.07	192039		16.03	188994
13	1457	jq33a200.d	JQ33A	T4-B414-01-A 200	1		6.88	238007		8.95	129506		10.76	213340		14.08	193067		16.03	201758
14	1522	jq33a20.d	JQ33A	T4-B414-01-A 20	1		6.88	269722		8.95	143124		10.76	234650		14.09	239002		16.05	230123
15	1547	jq33b10.d	JQ33B	T4-B414-01-B 10	1		6.89	253684		8.95	137858		10.76	229584		14.08	206616		16.03	217551
16	1612	jq33c10.d	JQ33C	T4-B414-01-C 10	1		6.88	251304		8.95	136383		10.76	218514		14.08	201248		16.03	207051
17	1637	jq33d10.d	JQ33D	T4-B414-02-A 10	1		6.89	250830		8.95	139170		10.76	226881		14.08	206452		16.03	210860
18	1701	jq33dms.d	JQ33DMS	T4-B414-02-A MS	10		6.88	286926		8.95	153185		10.76	242209		14.08	211508		16.03	209035
19	1726	jq33f10.d	JQ33F	T4-B414-02-C 10	1		6.88	266003		8.95	142673		10.76	228052		14.08	213090		16.03	208949
20	1751	jq33g10.d	JQ33G	T4-B414-03-A 10	1		6.88	267089		8.95	148727		10.76	233614		14.08	213580		16.03	210994
21	1816	jq33h10.d	JQ33H	T4-B414-03-B 10	1		6.88	269385		8.95	143637		10.76	230650		14.08	209106		16.03	212426
22	1840	jq33i.d	JQ33I	T4-B414-03-C 1	1		6.88	267919		8.95	144260		10.76	242100		14.08	235399		16.04	231697
23	1905	jq33j.d	JQ33J	T4-B414-04-A 1	1		6.88	260269		8.95	142460		10.76	229532		14.08	222385		16.04	203749
24	1930	jq33k.d	JQ33K	T4-B414-04-B 1	1		6.88	247787		8.95	134801		10.76	225260		14.08	220402		16.04	208456
25	1955	jq33l10.d	JQ33L	T4-B414-04-C 10	1		6.88	244088		8.95	139139		10.76	216520		14.08	196332		16.03	190131
26	2019	jq33m50.d	JQ33M	T4-S3-01-D 50	1		6.88	256942		8.95	141892		10.76	226524		14.08	204610		16.03	193008
27	2044	jq33n100.d	JQ33N	T4-S3-01-E 100	1		6.89	271920		8.95	145808		10.76	236513		14.07	211864		16.03	204121
28	2109	jq33o20.d	JQ33O	T4-S3-01-F 20	1		6.88	252583		8.95	137446		10.76	226835		14.08	199033		16.03	188672
29	2133	jq33p10.d	JQ33P	T4-S3-01-G 10	1		6.89	273354		8.95	144693		10.76	235162		14.07	211801		16.03	200625
30	2158	jq33q20.d	JQ33Q	T4-S3-01-H 20	1		6.88	258695		8.95	138477		10.76	228584		14.08	204572		16.03	200060
31	2247	jq33m10.d	JQ33M		1		6.88	274419		8.95	156017		10.76	247958		14.08	238659		16.04	212818
32	2312	jq33n10.d	JQ33N10		1		6.88	280766		8.95	157690		10.76	248493		14.09	253079		16.05	209925
33	2337	jq33e.d	JQ33E	T4-B414-02-B 1	1		6.88	277565		8.95	157937		10.76	263844		14.08	260270		16.04	217317

VZ 8/7/06

Mainte

New Lines, New Section

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): EE08IC0803A
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 8-31-2006 Analysis: Simpna Analyst: VF

GC Program: Simpna Column No: 97876 Column Type: ZB-5

Instrument Tune (.U or .CT.): 0824.U EM Voltage: 1706

Calibration File: AF0831 Curve Date: 8.4.2006

IS/SS

Ical/Ccal

LCS/ICV

(1408-3)

(1409-01)(1416-02)

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.i/20060831.b

Time	Filename	LabID	ClientId	DF										
1	1120 df0831.d	DF0831		1	NO ISTDs FOUND									
2	1136 cc0831.d	CC0831		1	6.82	330618	8.89	168464	10.69	226331	14.00	170894	15.92	178548
3	1212 jt82mb.d	JT82MBS1	JT82MBS1	1	6.83	361179	8.89	173904	10.70	230286	14.01	168570	15.93	163639
4	1237 jt82sb.d	JT82LCSS1	JT82LCSS1	1	6.83	335577	8.88	174080	10.70	233367	14.00	167333	15.92	167780
5	1302 jt82b.d	JT82B	T4-S3-01-K	1	6.83	349209	8.89	174641	10.70	230383	14.00	169736	15.92	176989
6	1327 jt82c.d	JT82C	T4-S3-02-G	2	6.83	370295	8.89	188918	10.70	253874	14.01	190120	15.94	194281
7	1359 ju83mb.d	JU83MBS1	JU83MBS1	1	6.83	378323	8.89	180364	10.70	243402	14.01	181680	15.93	194532
8	1423 ju83sb.d	JU83LCSS1	JU83LCSS1	1	6.83	357293	8.88	171194	10.69	225245	14.00	169184	15.92	175476
9	1448 ju83sbd.d	JU83LCSDS1	JU83LCSDS1	1	6.83	349152	8.89	172407	10.70	227633	14.01	166092	15.92	173541
10	1514 ju83a.d	JU83A	SEDCON11-060830	1	6.83	343448	8.89	167163	10.70	222766	14.00	158572	15.93	169749
11	1539 ju83b.d	JU83B	SEDCON12-060830	1	6.83	336221	8.89	169879	10.70	216128	14.01	166283	15.93	164819
12	1604 ju83c.d	JU83CDL	SEDCON13-060830	3	6.83	357983	8.89	178147	10.70	234827	14.01	175461	15.93	181090
13	1628 ju83d.d	JU83D	SEDCON14-060830	1	6.83	361740	8.89	176387	10.70	235467	14.00	177723	15.93	194403
14	1654 ju83e.d	JU83E	SEDCON15-060830	1	6.83	367987	8.89	186330	10.70	239472	14.01	189913	15.93	181250
15	1719 ju83f.d	JU83F	SEDCON15DUP1-060830	1	6.83	368145	8.89	191154	10.70	242581	14.01	183330	15.93	183297
16	1744 ju83g.d	JU83G	SEDCON16-060830	5	6.83	398097	8.89	203274	10.70	266512	14.01	179864	15.94	165717
17	1809 ju83h.d	JU83HDL	SEDCON17-060830	3	6.83	396365	8.89	197461	10.70	257327	14.01	193862	15.93	167023
18	1834 ju69a.d	JU69A	SOILIMP7-060828,29	1	6.83	401320	8.89	196749	10.70	253235	14.01	190623	15.93	167000
19	1859 ju83c2.d	JU83C	SEDCON13-060830	1	6.83	412887	8.89	206757	10.70	268226	14.01	201056	15.93	139795
20	1924 ju83h2.d	JU83H	SEDCON17-060830	1	6.83	417189	8.89	207079	10.70	268614	14.01	193839	15.94	125327
21	1949 jt82d.d	JT82D	T4-S3-02-J	1	6.83	422766	8.89	212795	10.70	276717	14.01	194346	15.94	130199
22	2013 jt82e.d	JT82E	T4-S3-02-K-DUP	1	6.83	410316	8.89	201612	10.70	262822	14.01	189677	15.93	122294
23	2038 jt82ems.d	JT82EMS	T4-S3-02-K-DUP MS	1	6.83	405623	8.89	199879	10.70	257590	14.01	196410	15.93	133932
24	2103 jt82emd.d	JT82EMSD	T4-S3-02-K-DUP MSD	1	6.83	390466	8.89	191327	10.70	249723	14.01	187501	15.93	125274
25	2127 jt82i.d	JT82I	T4-S3-02-H	1	6.83	402666	8.89	201856	10.70	260594	14.00	188700	15.93	134257
26	2152 jt82a.d	JT82A	T4-S3-01-J	5	6.83	386376	8.89	189051	10.70	251476	14.02	188266	15.95	125469

New line / New septum / Chopped Column / Cleaned split sel

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control: CC0831)

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

9.1.2006
VTS
0639

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 9.1.2006 Analysis: SimpNA Analyst: VTS
 GC Program: SimpNA Column No: 97876 Column Type: ZB-5
 Instrument Tune (.U or .CT.): 0824.U EM Voltage: 1706
 Calibration File: df0901 Curve Date: 8.4.2006

IS/SS	Ical/Ccal	LCS/ICV
<u>(1408-3)</u>	<u>(1409-01)(1416-02)</u>	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.i/20060901.b

Time	Filename	LabID	ClientID	DF											
1	1113	df0901.d	DF0901		1	NO ISTDs FOUND									
2	1130	cc0901.d	CC0901		1	6.82	410913	8.89	204164	10.70	267547	14.00	200701	15.93	204542
3	1154	jt82adl.d	JT82ADL	T4-S3-01-J	50	6.82	409042	8.89	205791	10.70	271573	14.01	232613	15.93	245812
4	1219	jt82cdl.d	JT82CDL	T4-S3-02-C	10	6.83	451430	8.89	220222	10.70	290112	14.01	217250	15.93	241010

Maintenance / Comments New line / new septum / Chopped column /
Cleaned split seal

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC0901
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

VTS
9.4.2006



GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: SIM PNA curve Client ID: _____

ARI SOP: 801S(SIM-PNA) 802S(BTS-HX) 803S(BTS-PW) 804S(8270D) 805S(BTS-ET)

Parameter(s): SIM PNA

Instrument: NT-1 NT-2 NT-4 NT-6

Curve Date: 8/4/2006 Analysis Start Date: _____

DFTPP Tune Meets Criteria?	<u>YES</u> / NO	Method Blank in Control?	<u>YES</u> / NO
DDT Breakdown <20%?	<u>YES</u> / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
Peak Tailing Factor in Control?	<u>YES</u> / NO / NA	MS/MSD Recovery in Control?	YES / NO
Cal Meets RF & %RSD Criteria?	<u>YES</u> / NO	Surrogate Recovery in Control?	YES / NO
CCal Meets RF & %RSD Criteria?	<u>YES</u> / NO	Special Analysis Criteria Met?	YES / NO / NA
Internal Standard Meets Criteria?	<u>YES</u> / NO		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

6 points curve for routine analytes + additional analytes:

*Biphenyl
2,6 Dimethylnaphthalene
2,3,5 Trimethylnaphthalene
1-Methyphenanthrene
Benzo-(e)pyrene
Perylene*

all RSD < 15%, all averaged

-ICV run on 8/10/2006 - within 70-130%

Additional Details on Reverse: Yes / No

Analyst Signature: _____ Date: 8/4/06

Reviewer's Signature: _____ Date: 8.4.2006

**Metals Analysis
QC Summary Data**

**prepared
for**

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

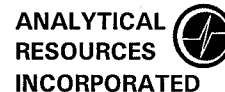
ARI JOB NO: JT82

**prepared
by**

Analytical Resources, Inc.

Cover Page

INORGANIC ANALYSIS DATA PACKAGE



CLIENT: Anchor Environmental

PROJECT: T-4 EARLY ACTION

SDG: JT82

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
T4-S3-01-J	JT82A	06-15215	
T4-S3-01-JD	JT82ADUP	06-15215	
T4-S3-01-JS	JT82ASPK	06-15215	
T4-S3-01-K	JT82B	06-15216	
PBS	JT82MB1	06-15216	
LCSS	JT82MB1SPK	06-15216	
T4-S3-02-G	JT82C	06-15217	
T4-S3-02-J	JT82D	06-15218	
T4-S3-02-K	JT82E	06-15219	
T4-S3-03-E	JT82F	06-15220	
T4-S3-03-F	JT82G	06-15221	
T4-S3-03-G	JT82H	06-15222	
T4-S3-02-H	JT82I	06-15223	

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO


Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: Jay Kuhn Name: Jay Kuhn
Date: 9/1/06 Title: Inorganics Lab Manager

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
 Page 1 of 1

Sample ID: T4-S3-01-J
 DUPLICATE

Lab Sample ID: JT82A
 LIMS ID: 06-15215
 Matrix: Sediment
 Data Release Authorized: 
 Reported: 08/31/06

QC Report No: JT82-Anchor Environmental
 Project: T-4 EARLY ACTION
 050332-01
 Date Sampled: 07/18/06
 Date Received: 07/21/06

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Lead	6010B	238	128	60.1%	+/- 20%	*
Zinc	6010B	333	178	60.7%	+/- 20%	*

Reported in mg/kg-dry .

*-Control Limit Not Met
 L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: T4-S3-01-J
MATRIX SPIKE

Lab Sample ID: JT82A

LIMS ID: 06-15215

Matrix: Sediment

Data Release Authorized: 

Reported: 08/31/06

QC Report No: JT82-Anchor Environmental

Project: T-4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Lead	6010B	238	589	282	124%	
Zinc	6010B	333	426	70.4	132%	H

Reported in mg/kg-dry

N-Control Limit Not Met

H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

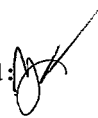
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: JT82LCS

LIMS ID: 06-15216

Matrix: Sediment

Data Release Authorized: 

Reported: 08/31/06

QC Report No: JT82-Anchor Environmental

Project: T-4 EARLY ACTION

050332-01

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Lead	6010B	215	200	108%	
Zinc	6010B	54.0	50.0	108%	

Reported in mg/kg-dry

N-Control limit not met

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

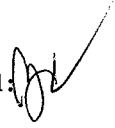
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: JT82MB

LIMS ID: 06-15216

Matrix: Sediment

Data Release Authorized: 

Reported: 08/31/06

QC Report No: JT82-Anchor Environmental

Project: T-4 EARLY ACTION

050332-01

Date Sampled: NA

Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/24/06	7439-92-1	Lead	2	2	U
3050B	08/24/06	6010B	08/24/06	7440-66-6	Zinc	0.6	1.7	

U-Analyte undetected at given RL

RL-Reporting Limit

Calibration Verification



CLIENT: Anchor Environmental

PROJECT: T-4 EARLY ACTION

SDG: JT82

UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Lead	PB	ICP	IP082421	2000.0	1959.21	98.0	2000.0	1956.15	97.8	1976.26	98.8	2061.40	103.1	2084.28	104.2	2083.92	104.2
Zinc	ZN	ICP	IP082421	1000.0	964.28	96.4	1000.0	993.86	99.4	997.31	99.7	1046.83	104.7	1045.89	104.6	1042.43	104.2

Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (1)

Calibration Verification



CLIENT: Anchor Environmental

PROJECT: T-4 EARLY ACTION

SDG: JT82

UNITS: ug/L

ANALYTE	EL	M	RUN	CCVTV	CCV6	%R	CCV7	%R	CCV8	%R	CCV9	%R	CCV10	%R	CCV11	%R
Lead	PB	ICP	IP082421	2000.0	2037.42	101.9	2077.92	103.9	2098.80	104.9	2086.63	104.3				
Zinc	ZN	ICP	IP082421	1000.0	1055.41	105.5	1037.31	103.7	1056.98	105.7	1087.77	108.8				

Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (1)

Calibration Verification



CLIENT: Anchor Environmental

PROJECT: T-4 EARLY ACTION

SDG: JT82

UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Lead	PB	ICP	IP082821	2000.0	1965.72	98.3	2000.0	1988.31	99.4	2080.01	104.0	2052.56	102.6	2025.95	101.3	1998.51	99.9
Zinc	ZN	ICP	IP082821	1000.0	1007.04	100.7	1000.0	1001.36	100.1	1085.89	108.6	1055.08	105.5	1064.17	106.4	1034.36	103.4

Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (1)

CRDL Standard

CLIENT: Anchor Environmental

PROJECT: T-4 EARLY ACTION

SDG: JT82



UNITS: ug/L

ANALYTE	EL	M	RUN	CRA/I	TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Lead	PB	ICP	IP082421	20.0		20.07	100.4										
Zinc	ZN	ICP	IP082421	6.0		6.23	103.8										

Control Limits: no control limits have been established by the EPA at this time.

FORM II (2)

CRDL Standard

CLIENT: Anchor Environmental

PROJECT: T-4 EARLY ACTION

SDG: JT82



UNITS: ug/L

ANALYTE	EL	M	RUN	CRA/I	TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Lead	PB	ICP	IP082821	20.0	21.11	105.6	21.75	108.8	19.42	97.1	20.40	102.0	20.26	101.3			
Zinc	ZN	ICP	IP082821	6.0	6.26	104.3	8.29	138.2	5.85	97.5	7.82	130.3	6.96	116.0			

Control Limits: no control limits have been established by the EPA at this time.

FORM II (2)

Calibration Blanks



**ANALYTICAL
RESOURCES
INCORPORATED**

CLIENT: Anchor Environmental

PROJECT: T-4 EARLY ACTION

SDG: JT82

UNITS: ug/L

ANALYTE	EL METH	RUN	CRDL	IDL	ICB	ICB C	CCB1	CCB1 C	CCB2	CCB2 C	CCB3	CCB3 C	CCB4	CCB4 C	CCB5	C
Lead	PB ICP	IP082421	3.0	20.0	20.0	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	U
Zinc	ZN ICP	IP082421	20.0	6.0	6.0	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	U

Calibration Blanks



CLIENT: Anchor Environmental

PROJECT: T-4 EARLY ACTION

SDG: JT82

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	CCB7	CCB8	CCB9	CCB10	CCB11	C
Lead	PB	ICP	IP082421	3.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	U
Zinc	ZN	ICP	IP082421	20.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	U

Calibration Blanks



ANALYTICAL
RESOURCES
INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T-4 EARLY ACTION

SDG: JT82

UNITS: ug/L

ANALYTE	EL METH	RUN	CRDL	IDL	ICB	ICB C	CCB1	CCB1 C	CCB2	CCB2 C	CCB3	CCB3 C	CCB4	CCB4 C	CCB5	C
Lead	PB ICP	IP082821	3.0	20.0	20.0	20.0	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U
Zinc	ZN ICP	IP082821	20.0	6.0	6.0	6.0	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U

ICP Interference Check Sample



CLIENT: Anchor Environmental

ICS SOURCE: I.V.

PROJECT: T-4 EARLY ACTION

RUNID: IP082421

SDG: JT82

INSTRUMENT ID: OPTIMA ICP 1

UNITS: ug/L

ANALYTE	ICSA IV	ICSAB IV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Aluminum	200000	200000	199868.1	199917.7	100.0						
Antimony	1000	1000	23.4	1070.2	107.0						
Arsenic	1000	1000	12.1	1053.0	105.3						
Barium	1000	1000	-1.0	979.7	98.0						
Beryllium	1000	1000	0.0	1044.2	104.4						
Boron			-0.9	-2.5							
Cadmium	1000	1000	-0.7	1029.1	102.9						
Calcium	100000	100000	99372.4	99656.1	99.7						
Chromium	1000	1000	-2.1	957.0	95.7						
Cobalt	1000	1000	-2.1	964.2	96.4						
Copper	1000	1000	-1.2	1076.2	107.6						
Iron	200000	200000	196301.8	198225.5	99.1						
Lead	1000	1000	0.3	965.6	96.6						
Magnesium	100000	100000	100948.1	101525.1	101.5						
Manganese	1000	1000	0.2	943.7	94.4						
Molybdenum			4.3	4.6							
Nickel	1000	1000	-5.1	955.3	95.5						
Potassium			93.3	188.7							
Selenium	1000	1000	-68.3	980.8	98.1						
Silicon			31.2	30.0							
Silver	1000	1000	-1.0	1080.1	108.0						
Sodium			111.2	115.9							
Strontium			1.1	1.4							
Thallium	1000	1000	-26.6	954.6	95.5						
Tin			-2.2	-2.4							
Titanium			6.1	5.4							
Vanadium	1000	1000	1.2	1047.2	104.7						
Zinc	1000	1000	-3.4	952.6	95.3						

ICP Interference Check Sample



CLIENT: Anchor Environmental

ICS SOURCE: I.V.

PROJECT: T-4 EARLY ACTION

RUNID: IP082821

SDG: JT82

INSTRUMENT ID: OPTIMA ICP 1

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Aluminum	200000	200000	199368.1	200902.8	100.5						
Antimony	1000	1000	18.8	1089.8	109.0						
Arsenic	1000	1000	10.1	1050.2	105.0						
Barium	1000	1000	-1.6	978.7	97.9						
Beryllium	1000	1000	0.0	1041.6	104.2						
Boron			0.5	-1.3							
Cadmium	1000	1000	-0.5	1031.2	103.1						
Calcium	100000	100000	97211.5	98877.1	98.9						
Chromium	1000	1000	-2.5	958.6	95.9						
Cobalt	1000	1000	-1.9	963.7	96.4						
Copper	1000	1000	-0.5	1074.5	107.5						
Iron	200000	200000	193391.3	195521.0	97.8						
Lead	1000	1000	3.8	973.9	97.4						
Magnesium	100000	100000	99569.5	100789.3	100.8						
Manganese	1000	1000	0.1	959.6	96.0						
Molybdenum			5.0	5.1							
Nickel	1000	1000	-1.9	957.3	95.7						
Potassium			162.3	141.1							
Selenium	1000	1000	-72.0	973.8	97.4						
Silicon			25.9	35.5							
Silver	1000	1000	-1.8	1078.1	107.8						
Sodium			169.2	93.2							
Strontium			1.0	1.3							
Thallium	1000	1000	-22.7	955.2	95.5						
Tin			-4.4	-3.3							
Titanium			4.7	5.4							
Vanadium	1000	1000	1.4	1043.4	104.3						
Zinc	1000	1000	-2.0	945.2	94.5						

ICP Serial Dilutions



CLIENT: Anchor Environmental

PROJECT: T-4 EARLY ACTION

ANALYSIS METHOD: ICP

SDG: JT82

UNITS: ug/L

ANALYTE	CLIENT ID	ARI ID	MATRIX	RUNID	INITIAL SAMPLE RESULT (I)	C	SERIAL DILUTION RESULT (S)	C	% DIFFER- ENCE	Q
Lead	T4-S3-01-JL	JT82A-L	Sediment	IP082821	673.23		686.85		2.0	
Zinc	T4-S3-01-JL	JT82A-L	Sediment	IP082821	941.26		953.35		1.3	

IDLs and ICP Linear Ranges



CLIENT: Anchor Environmental

PROJECT: T-4 EARLY ACTION

SDG: JT82

UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENGTH (nm)	GFA		RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
					BACK- GROUND	CLP CRDL				
Lead	PB	ICP	OPTIMA ICP 1	220.35		3	20.0	6/1/2006	300000.0	6/19/1906
Zinc	ZN	ICP	OPTIMA ICP 1	206.20		20	6.0	6/1/2006	100000.0	6/19/1906

ICP Interelement Correction Factors



CLIENT: Anchor Environmental

PROJECT: T-4 EARLY ACTION

SDG: JT82

IEC DATE: 6/19/2006

INSTRUMENT ID: OPTIMA ICP 1

ANALYTE	WAVELENGTH	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE
Aluminum	308.22	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Antimony	206.84	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	16.210000	0.000000	0.000000
Arsenic	188.98	0.0899919	0.000000	0.1533550	0.000000	0.0557918	0.000000	0.000000	0.3754730	0.3209290	0.000000
Barium	233.53	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-0.2555740	0.000000	0.000000	0.0719803
Beryllium	313.04	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Cadmium	228.80	0.000000	1.3822800	0.0463102	0.000000	0.000000	0.000000	0.1963220	0.000000	0.000000	0.0100886
Calcium	317.93	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Chromium	267.72	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Cobalt	228.62	-0.0170392	0.000000	0.2412880	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-0.0838568
Copper	324.75	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-0.2000560	-0.0393520	0.000000	-0.0946918
Iron	273.96	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.7498730	0.000000	0.000000
Lead	220.35	-0.1925250	0.000000	0.000000	0.000000	0.000000	0.000000	-0.1485420	-1.6563300	0.6048040	0.000000
Magnesium	279.08	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-1.3145300	-0.8640350	0.000000	0.7372390
Manganese	257.61	0.0072299	0.000000	0.000000	0.000000	0.0055500	0.000000	0.000000	0.000000	0.000000	0.000000
Molybdenum	202.03	-0.0221489	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Nickel	231.60	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Potassium	766.49	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Selenium	196.03	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Silicon	288.16	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-2.0980400	0.000000	0.000000
Silver	328.07	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-0.0415558
Sodium	589.59	0.000000	0.000000	0.000000	0.000000	8.9586100	0.000000	0.000000	0.000000	0.000000	0.000000
Thallium	190.80	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	3.5279800	0.3870280	0.000000	0.000000
Tin	189.93	0.000000	0.000000	0.000000	0.000000	-0.1774780	0.000000	0.000000	0.000000	0.000000	0.000000
Titanium	334.90	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Vanadium	292.40	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.2123760	0.000000	0.000000
Zinc	206.20	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-7.0582400	0.000000	0.000000
						-0.0129802	0.3119720	0.000000	0.3266740	0.000000	0.0266652

ICP Interelement Correction Factors



CLIENT: Anchor Environmental

PROJECT: T-4 EARLY ACTION

SDG: JT82

IEC DATE: 6/19/2006

INSTRUMENT ID: OPTIMA ICP 1

ANALYTE	WAVELENGTH	MG	MN	MO	NI	PB	SB	TI	TL	V	ZN
Aluminum	308.22	0.000000	0.000000	19.6878000	0.000000	0.000000	0.000000	0.7151350	0.000000	16.7609000	0.000000
Antimony	206.84	0.000000	0.000000	0.000000	-0.3295220	0.000000	0.000000	-0.8642410	0.000000	-3.4575900	0.000000
Arsenic	188.98	0.000000	0.000000	0.9150530	0.000000	0.000000	0.000000	2.5519000	0.000000	0.000000	0.1492760
Barium	233.53	0.000000	0.000000	0.000000	0.1240640	0.000000	0.000000	0.000000	0.000000	0.4604860	0.000000
Beryllium	313.04	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.5675800	0.000000
Cadmium	228.80	0.000000	0.000000	0.000000	-0.2000800	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Calcium	317.93	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Chromium	267.72	0.1529370	0.5096240	0.1429920	0.000000	0.000000	0.000000	0.0965822	0.000000	0.1796520	0.000000
Cobalt	228.62	0.000000	0.000000	-0.3795350	0.0320069	0.000000	0.000000	1.7290300	0.000000	0.000000	0.000000
Copper	324.75	0.0085698	0.000000	0.7344770	0.000000	0.000000	0.000000	0.2196270	0.000000	0.000000	0.000000
Iron	273.96	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.7593200	0.000000
Lead	220.35	0.000000	0.000000	-0.3190660	-0.1742160	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Magnesium	279.08	0.000000	0.000000	-3.2635900	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Manganese	257.61	0.0170007	0.000000	0.000000	0.000000	-0.2391890	0.000000	0.000000	0.000000	0.000000	0.000000
Molybdenum	202.03	0.0236906	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Nickel	231.60	0.000000	0.000000	0.000000	0.000000	0.000000	-0.5765410	0.000000	0.000000	0.000000	0.000000
Potassium	766.49	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Selenium	196.03	0.000000	1.1348600	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Silicon	288.16	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Silver	328.07	0.000000	0.1621690	0.1065380	0.000000	0.000000	0.000000	0.000000	0.000000	-0.3119270	0.000000
Sodium	589.59	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Thallium	190.80	0.000000	0.000000	-3.5954300	0.000000	0.000000	0.000000	0.8751120	0.000000	2.2588300	0.000000
Tin	189.93	0.0270703	0.000000	0.000000	0.000000	-0.0530103	-1.8271700	0.1974990	0.000000	0.000000	0.000000
Titanium	334.90	0.000000	0.000000	1.0370700	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Vanadium	292.40	0.000000	-0.1494890	-0.7380980	0.000000	0.000000	0.000000	0.4684280	0.000000	0.000000	0.000000
Zinc	206.20	0.000000	0.000000	0.3271770	0.000000	-0.0935990	0.000000	0.000000	0.000000	0.000000	0.000000

Preparation Log



CLIENT: Anchor Environmental

ANALYSIS METHOD: ICP

PROJECT: T-4 EARLY ACTION

ARI PREP CODE: SWC

SDG: JT82

PREPDATE: 8/24/2006

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
T4-S3-01-J	JT82A	1.066	0.0	50.0
T4-S3-01-JD	JT82ADUP	1.068	0.0	50.0
T4-S3-01-JS	JT82ASPK	1.071	0.0	50.0
T4-S3-01-K	JT82B	1.030	0.0	50.0
T4-S3-02-G	JT82C	1.013	0.0	50.0
T4-S3-02-J	JT82D	1.033	0.0	50.0
T4-S3-02-K	JT82E	1.018	0.0	50.0
T4-S3-03-E	JT82F	1.073	0.0	50.0
T4-S3-03-F	JT82G	1.009	0.0	50.0
T4-S3-03-G	JT82H	1.030	0.0	50.0
T4-S3-02-H	JT82I	1.037	0.0	50.0
PBS	JT82MB1	1.000	0.0	50.0
LCSS	JT82MB1SPK	1.000	0.0	50.0

Analysis Run Log



CLIENT: Anchor Environmental

PROJECT: T-4 EARLY ACTION

INSTRUMENT ID: OPTIMA ICP 1

START DATE: 8/24/2006

SDG: JT82

RUNID: IP082421

METHOD: ICP

END DATE: 8/24/2006

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
S0	S0	1.00	08581																														X
S2	S2	1.00	09043																														X
S3	S3	1.00	09085																														X
S4	S4	1.00	09133																														X
S5	S5	1.00	09181																														X
ICV	ICV	1.00	09575																													X	
ICB	ICB	1.00	10040																													X	
ZZZZZZ	ZZZZZZ	1.00	10103																													X	
CRI	CRII	1.00	10182																													X	
ICSA	ICSAI	1.00	10244																													X	
ICSAB	ICSABI	1.00	10311																													X	
ZZZZZZ	ZZZZZZ	1.00	10373																													X	
CCV	CCV1	1.00	10450																													X	
CCB	CCB1	1.00	10512																													X	
ZZZZZZ	JT79D	5.00	10571																													X	
ZZZZZZ	JT79E	5.00	11034																													X	
ZZZZZZ	JT79F	5.00	11095																													X	
CCV	CCV2	1.00	11184																													X	
CCB	CCB2	1.00	11245																													X	
ZZZZZZ	JS91MB1	2.00	11312																													X	
ZZZZZZ	JS91A	2.00	11374																													X	
ZZZZZZ	JS91B	2.00	11435																													X	
ZZZZZZ	JS91C	2.00	11501																													X	
ZZZZZZ	JS91D	2.00	11562																													X	
ZZZZZZ	JS91E	2.00	12025																													X	
ZZZZZZ	JS91F	2.00	12091																													X	
ZZZZZZ	JS91G	2.00	12153																													X	
ZZZZZZ	JS91H	2.00	12214																													X	
ZZZZZZ	JS91REF1	2.00	12280																													X	
CCV	CCV3	1.00	12341																													X	
CCB	CCB3	1.00	12403																													X	
ZZZZZZ	JS91MB2	2.00	12465																													X	
ZZZZZZ	JS91I	2.00	12532																													X	
ZZZZZZ	JS91J	2.00	12594																													X	
ZZZZZZ	JS91K	2.00	13060																													X	

Analysis Run Log



CLIENT: Anchor Environmental
 PROJECT: T-4 EARLY ACTION
 SDG: JT82
 INSTRUMENT ID: OPTIMA ICP 1
 RUNID: IP082821
 METHOD: ICP
 START DATE: 8/28/2006
 END DATE: 8/28/2006

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
S0			1.00	09233																													X
S2			1.00	09300																													X
S3			1.00	09341																													X
S4			1.00	09385																													X
S5			1.00	09433																													X
ICV			1.00	10062																													X
ICB			1.00	10123																													X
CRI			1.00	10190																													X
ICSA			1.00	10252																													X
ICSAB			1.00	10315																													X
CCV			1.00	10381																													X
CCB			1.00	10443																													X
ZZZZZ			1.00	10503																													X
ZZZZZ			1.00	10565																													X
ZZZZZ			5.00	11033																													X
ZZZZZ			1.00	11101																													X
T4-S3-03-E			5.00	11165																													X
T4-S3-01-JL			25.00	11232																													X
T4-S3-01-J			5.00	11294																													X
T4-S3-01-JD			5.00	11361																													X
T4-S3-01-JS			5.00	11423																													X
ZZZZZ			1.00	11485																													X
CCV			1.00	11551																													X
CCB			1.00	12012																													X
ZZZZZ			1.00	12075																													X
ZZZZZ			1.00	12143																													X
ZZZZZ			1.00	12205																													X
ZZZZZ			1.00	12272																													X
ZZZZZ			1.00	12335																													X
ZZZZZ			1.00	12404																													X
ZZZZZ			1.00	12472																													X
ZZZZZ			1.00	12540																													X
ZZZZZ			1.00	13004																													X
ZZZZZ			1.00	13073																													X
CCV			1.00	13135																													X

Analysis Run Log



CLIENT: Anchor Environmental

PROJECT: T-4 EARLY ACTION

INSTRUMENT ID: OPTIMA ICP 1

START DATE: 8/28/2006

SDG: JT82

RUNID: IP082821

METHOD: ICP

END DATE: 8/28/2006

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN		
CCB	CCB3	1.00	13200																															X	
S4	S4	1.00	13252																															X	
CCV	CCV4	1.00	13385																															X	
CCB	CCB4	1.00	13450																															X	
ZZZZZZ	JS74MB1	2.00	13513																																
ZZZZZZ	JT20MB1	1.00	13575																																
ZZZZZZ	JT02MB1	1.00	14042																																
ZZZZZZ	JT02B	1.00	14104																																
ZZZZZZ	JT02C	1.00	14173																																
ZZZZZZ	JT02D	1.00	14241																																
ZZZZZZ	JT02E	1.00	14305																																
ZZZZZZ	JT02F	1.00	14374																																
ZZZZZZ	JT82APOST	5.00	14442																																
ZZZZZZ	JT02MB1SPK	1.00	14504																																
CCV	CCV5	1.00	14570																																X
CCB	CCB5	1.00	15032																																X

**Metals Analysis
Sample Data**

**prepared
for**

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

**prepared
by**

Analytical Resources, Inc.

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: T4-S3-01-J
SAMPLE

Lab Sample ID: JT82A

LIMS ID: 06-15215

Matrix: Sediment

Data Release Authorized 

Reported: 08/31/06

QC Report No: JT82-Anchor Environmental

Project: T-4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Percent Total Solids: 66.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/28/06	7439-92-1	Lead	7	238	
3050B	08/24/06	6010B	08/28/06	7440-66-6	Zinc	2	333	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: T4-S3-01-K
SAMPLE

Lab Sample ID: JT82B

LIMS ID: 06-15216

Matrix: Sediment

Data Release Authorized: 

Reported: 08/31/06

QC Report No: JT82-Anchor Environmental

Project: T-4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Percent Total Solids: 66.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/24/06	7439-92-1	Lead	3	42	
3050B	08/24/06	6010B	08/24/06	7440-66-6	Zinc	0.9	68.6	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: T4-S3-02-G
SAMPLE

Lab Sample ID: JT82C

LIMS ID: 06-15217

Matrix: Sediment

Data Release Authorized: 

Reported: 08/31/06

QC Report No: JT82-Anchor Environmental

Project: T-4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Percent Total Solids: 60.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/24/06	7439-92-1	Lead	3	901	
3050B	08/24/06	6010B	08/24/06	7440-66-6	Zinc	1	878	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: T4-S3-02-J
SAMPLE

Lab Sample ID: JT82D

LIMS ID: 06-15218

Matrix: Sediment

Data Release Authorized: 

Reported: 08/31/06

QC Report No: JT82-Anchor Environmental

Project: T-4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Percent Total Solids: 72.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/24/06	7439-92-1	Lead	3	127	
3050B	08/24/06	6010B	08/24/06	7440-66-6	Zinc	0.8	164	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: T4-S3-02-K-DUP
SAMPLE

Lab Sample ID: JT82E

LIMS ID: 06-15219

Matrix: Sediment

Data Release Authorized: 

Reported: 08/31/06

QC Report No: JT82-Anchor Environmental

Project: T-4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Percent Total Solids: 78.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/24/06	7439-92-1	Lead	3	16	
3050B	08/24/06	6010B	08/24/06	7440-66-6	Zinc	0.8	67.4	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

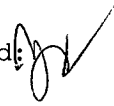
Page 1 of 1

Sample ID: T4-S3-03-E
SAMPLE

Lab Sample ID: JT82F

LIMS ID: 06-15220

Matrix: Sediment

Data Release Authorized: 

Reported: 08/31/06

QC Report No: JT82-Anchor Environmental

Project: T-4 EARLY ACTION

050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Percent Total Solids: 78.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/28/06	7439-92-1	Lead	6	217	
3050B	08/24/06	6010B	08/28/06	7440-66-6	Zinc	2	280	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-03-F
SAMPLE

Lab Sample ID: JT82G


QC Report No: JT82-Anchor Environmental

LIMS ID: 06-15221

Project: T-4 EARLY ACTION

Matrix: Sediment

050332-01

Data Release Authorized: 

Date Sampled: 07/19/06

Reported: 08/31/06

Date Received: 07/21/06

Percent Total Solids: 81.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/24/06	7439-92-1	Lead	2	66	
3050B	08/24/06	6010B	08/24/06	7440-66-6	Zinc	0.7	111	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: T4-S3-03-G
SAMPLE

Lab Sample ID: JT82H

LIMS ID: 06-15222

Matrix: Sediment

Data Release Authorized: *OK*

Reported: 08/31/06

QC Report No: JT82-Anchor Environmental

Project: T-4 EARLY ACTION

050332-01

Date Sampled: 07/19/06

Date Received: 07/21/06

Percent Total Solids: 72.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/24/06	7439-92-1	Lead	3	131	
3050B	08/24/06	6010B	08/24/06	7440-66-6	Zinc	0.8	178	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

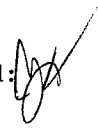
Page 1 of 1

Sample ID: T4-S3-02-H
SAMPLE

Lab Sample ID: JT82I

LIMS ID: 06-15223

Matrix: Sediment

Data Release Authorized: 

Reported: 08/31/06

QC Report No: JT82-Anchor Environmental

Project: T-4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Percent Total Solids: 68.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/24/06	6010B	08/24/06	7439-92-1	Lead	3	723	
3050B	08/24/06	6010B	08/24/06	7440-66-6	Zinc	0.8	701	

U-Analyte undetected at given RL

RL-Reporting Limit

**Metals Analysis
Instrument Raw Data**

**prepared
for**

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

**prepared
by**

Analytical Resources, Inc.

OPTIMA ICP SAMPLE RUN LOG

IEC Date: 6.19.06 Analysis Date: 8.28.06 Analyst: BW
 LR Date: 6.19.06 Page: 1 of 8

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		std 1			2299-4
		↓ 2			↓ -12
		↓ 3			↓ -13
		↓ 4			↓ -14
		↓ 5			2300-1
		ICV			2294-3
		ICB			
		ICR			
		ICSA			
		ICSAB			
		CCV1			
		CCB1			
		JS95 MB2	TWC		
		↓ I	↓		
		JT02 A-L	↓	5	✓ serial dilution
		↓ A	↓		
		JT82 F	swc	5	
		↓ A-L	↓	25	✓ serial dilution
		↓ A	↓	5	
		↓ Adcp	↓		Pb Zn 60%
		↓ Asph	↓		Zn 132%
		JS95 MB2 spk	TWC		✓
		CCV2			
		CCB2			

OPTIMA ICP SAMPLE RUN LOG

IEC Date: Analysis Date: 8/28/06 Analyst: BW
 LR Date: Page: 2 of 8

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		D1check			
	✓	JT02 MBI	TWC		Zn .009
		spex QC21			✓
		QC74			✓
	✓	JT02 B	TWC		Cl out
	↓	C	↓		↓
	↓	D	↓		↓
	↓	E	↓		↓
	↓	F	↓		↓
	↓	MBISqh	↓		↓
		CCJ3			Sb high
		CCB3			
		std 4			
		CCW4			
		CCB4			
		J574 MBI	SWC	2	Zn .05 CAF
		JT20 MBI	TWC		
	✓	JT02 MBI			Zn .007 CAF
		B			int. stds noisy - rem
		C			
		D			
		E			
		F			
		JT82 A post	SWC	5	0.008 ml ICP spgh / 8ml Zn 979.

OPTIMA ICP SAMPLE RUN LOG

IEC Date: _____ Analysis Date: 8.28.06 Analyst: BW
 LR Date: _____ Page: 3 of 8
 All corrections made by analyst unless otherwise noted. 8.28.06 BW

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		JT02 MB15ph	Tac	✓	
		CCV5			
		CCB5			
		CR1			
		ICSA			
		ICSA B			
		CCJ6			
		CCB6			
		77777			
		J574 A-L	auc	10	serial dilution
label		J574 A		2	
		B			
		C			
		D			
		E			
		F			
		G			
		H			
		MB15ph		✓	
		CCV7			Zn high
		CCB7			
		Std 3			
		4			
		5			
		CCV8			

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 8.28.06

	Analyst <u>BJ0829</u>	Peer <u>AS-29</u>	Comment
Logbook:			
Analyst, Date, Method info	/	✓	
Sample ID's	/	✓	
Standard/QC solution ID's recorded	/	✓	
Prep codes	/	✓	
Dilution factors	/	✓	
Crossouts/Corrections/Deletions	/	✓	
Calibration:			
Blank & Standard intensities	/	✓	
Standard deviations	/	✓	
Curve fit	/	✓	
Calibration Verification:			
ICV/CCV	✓	✓	see log
ICB/CCB	/	✓	
Samples:			
RSD's & SD's	/	✓	see log
Internal Standards	/	✓	
Carry-over	/	✓	
Method QC:			
CRI/CRA	/	✓	
ICSA/ICSAB	/	✓	
Post Spikes/Serial Dilutions	✓	✓	
Analytic Spikes	✓	✓	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	JT90
Method Blanks	✓	✓	J574 JT02
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	/	✓	
Data filename correct	/	✓	
Necessary Analysts Notes and CAF's	/	✓	JT90 JT82 J574 JT02

Nebulizer Parameters: Hg ReAlign

Analyte Back Pressure Flow
All 169.0 kPa 0.50 L/min

8/28/2006 9:21:47 AM Hg ReAlign... Actual peak offset (nm): -0.001
Drift (nm): -0.001 Slit adjustment: -2

Analysis Begun

Start Time: 8/28/2006 9:23:37 AM Plasma On Time: 8/28/2006 8:33:10 AM
Logged In Analyst: metals Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISSET.sif
Batch ID:
Results Data Set: PE060828
Results Library: C:\pe\Administrator\Results\Results.mdb

Method Loaded

Method Name: ARIIEC5 Method Last Saved: 6/20/2006 9:43:41 AM
IEC File: IEC28.iec MSF File:
Method Description: 12Axial Elements

Table with 6 columns: Analyte, Calibration Equation, Processing, View, Internal Standard, IEC. Lists various elements like Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn and their corresponding calibration and processing details.

Sequence No.: 1 Autosampler Location: 1
Sample ID: Calib Blank 1 Date Collected: 8/28/2006 9:23:38 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte Back Pressure Flow
All 170.0 kPa 0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
SCA 357.253	1790894.2	5736.20	0.32%	100.0	%
ScR 361.383	210373.3	490.33	0.23%	100.0	%
Ag 328.068†	686.1	35.02	5.10%	[0.00]	mg/L
Al 308.215†	-120.1	26.20	21.81%	[0.00]	mg/L
As 188.979†	28.3	1.36	4.79%	[0.00]	mg/L
B 249.677†	-40.7	1.50	3.68%	[0.00]	mg/L
Ba 233.527†	36.6	2.53	6.90%	[0.00]	mg/L
Be 313.042†	923.6	12.64	1.37%	[0.00]	mg/L
Ca 317.933†	409.0	4.78	1.17%	[0.00]	mg/L
Cd 228.802†	164.1	1.33	0.81%	[0.00]	mg/L
Co 228.616†	44.9	11.66	25.98%	[0.00]	mg/L
Cr 267.716†	63.7	10.89	17.09%	[0.00]	mg/L
Cu 324.752†	3953.1	39.09	0.99%	[0.00]	mg/L
Fe 273.955†	-43.5	1.39	3.19%	[0.00]	mg/L
K 766.490†	2743.2	130.86	4.77%	[0.00]	mg/L
Mg 279.077†	-138.4	21.27	15.37%	[0.00]	mg/L
Mn 257.610†	54.1	5.45	10.07%	[0.00]	mg/L
Mo 202.031†	-52.8	2.36	4.47%	[0.00]	mg/L
Na 589.592†	382.8	14.84	3.88%	[0.00]	mg/L
Na 330.237†	-179.9	16.02	8.90%	[0.00]	mg/L
Ni 231.604†	6.7	4.58	68.52%	[0.00]	mg/L
Pb 220.353†	141.7	0.59	0.42%	[0.00]	mg/L
Sb 206.836†	16.7	3.43	20.49%	[0.00]	mg/L
Se 196.026†	-84.0	3.64	4.33%	[0.00]	mg/L
Si 288.158†	-75.9	11.05	14.55%	[0.00]	mg/L
Sn 189.927†	7.9	0.56	7.13%	[0.00]	mg/L
Sr 421.552†	313.9	16.67	5.31%	[0.00]	mg/L
Ti 334.903†	-214.5	41.04	19.14%	[0.00]	mg/L
Tl 190.801†	-12.9	2.66	20.64%	[0.00]	mg/L
V 292.402†	-164.1	46.10	28.10%	[0.00]	mg/L
Zn 206.200†	-1.3	3.12	242.37%	[0.00]	mg/L

=====
Sequence No.: 2
Sample ID: STD2
Analyst:
Initial Sample Wt:
Dilution:

=====
Autosampler Location: 2
Date Collected: 8/28/2006 9:30:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: STD2.

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1780521.3	9031.71	0.51%	99.42	%
ScR 361.383	210390.0	770.51	0.37%	100.0	%
Ba 233.527†	31014.7	168.23	0.54%	[10]	mg/L
Cd 228.802†	325715.9	274.65	0.08%	[10]	mg/L
Co 228.616†	369999.8	314.72	0.09%	[10]	mg/L
Cr 267.716†	79681.1	400.45	0.50%	[10]	mg/L
Cu 324.752†	2660944.3	4052.88	0.15%	[10]	mg/L
Mn 257.610†	256414.0	1126.38	0.44%	[10]	mg/L
V 292.402†	2850340.7	4880.27	0.17%	[10]	mg/L

=====
Sequence No.: 3
Sample ID: STD3
Analyst:
Initial Sample Wt:
Dilution:

=====
Autosampler Location: 3
Date Collected: 8/28/2006 9:34:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
=====

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
ScA 357.253	1752906.7	8166.79	0.47%	97.88 %
ScR 361.383	209011.3	2185.82	1.05%	99.35 %
Ag 328.068†	305357.0	842.81	0.28%	[1.0] mg/L
As 188.979†	9918.7	23.72	0.24%	[10] mg/L
B 249.677†	28303.8	313.40	1.11%	[10] mg/L
Be 313.042†	2977101.6	21835.04	0.73%	[5.0] mg/L
Na 589.592†	297286.9	3033.27	1.02%	[50] mg/L
Ni 231.604†	19094.6	209.69	1.10%	[10] mg/L
Pb 220.353†	95385.8	43.84	0.05%	[10] mg/L
Se 196.026†	15403.7	36.38	0.24%	[10] mg/L
Sr 421.552†	3315774.2	28506.09	0.86%	[5] mg/L
Tl 190.801†	11066.7	24.31	0.22%	[10] mg/L
Zn 206.200†	9878.4	111.81	1.13%	[10] mg/L

Sequence No.: 4
Sample ID: STD4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 8/28/2006 9:38:56 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	1804348.6	6674.84	0.37%	100.8 %
ScR 361.383	213384.5	899.83	0.42%	101.4 %
Mo 202.031†	103273.4	764.95	0.74%	[10] mg/L
Sb 206.836†	11058.7	100.22	0.91%	[10] mg/L
Si 288.158†	13534.6	23.97	0.18%	[10] mg/L
Sn 189.927†	45713.7	293.90	0.64%	[10] mg/L
Ti 334.903†	251077.6	627.24	0.25%	[10] mg/L

Sequence No.: 5
 Sample ID: STD5
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 5
 Date Collected: 8/28/2006 9:43:33 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: STD5

Analyte	Mean Corrected			RSD	Conc. Units
	Intensity	Std.Dev.			
SCA 357.253	1688556.4	2245.73	0.13%	94.29 %	
ScR 361.383	205049.0	737.15	0.36%	97.47 %	
Al 308.215†	38410.8	20.27	0.05%	[30] mg/L	
Ca 317.933†	661834.7	1836.14	0.28%	[30] mg/L	
Fe 273.955†	91431.1	289.40	0.32%	[100] mg/L	
K 766.490†	155262.6	466.74	0.30%	[100] mg/L	
Mg 279.077†	43779.4	85.40	0.20%	[30] mg/L	
Na 330.237†	2738.3	5.45	0.20%	[100] mg/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	305400	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1280	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	991.9	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	2830	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	3101	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	595400	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	22060	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	32570	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	37000	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	7968	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	266100	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	914.3	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1553	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1459	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	25640	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	10330	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	5946	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	27.38	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1909	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	9539	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	1106	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1540	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1353	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	4571	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	663200	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	25110	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1107	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	285000	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	987.8	0.00000	1.000000	

Nebulizer Parameters: Hg ReAlign

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

8/28/2006 10:05:27 AM Hg ReAlign... Actual peak offset (nm): -0.001
 Drift (nm): -0.000 Slit adjustment: -2

Analysis Begun

Start Time: 8/28/2006 10:06:26 AM

Plasma On Time: 8/28/2006 8:33:10 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISSET.sif

Batch ID:

Results Data Set: PE060828

Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 7

Sample ID:\CV

Date Collected: 8/28/2006 10:06:26 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution: 1X

Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
SCA 357.253	1736340.5	96.95 %	%	0.950			0.98%
ScR 361.383	210733.5	100.2 %	%	0.41			0.41%
Ag 328.068†	305339.9	1.000 mg/L	mg/L	0.0021	1.000 mg/L	0.0021	0.21%
Al 308.215†	2589.7	1.985 mg/L	mg/L	0.0124	1.985 mg/L	0.0124	0.63%
As 188.979†	1987.5	1.999 mg/L	mg/L	0.0182	1.999 mg/L	0.0182	0.91%
B 249.677†	2742.1	0.9722 mg/L	mg/L	0.00383	0.9722 mg/L	0.00383	0.39%
Ba 233.527†	3012.1	0.9707 mg/L	mg/L	0.00473	0.9707 mg/L	0.00473	0.49%
Be 313.042†	587276.8	0.9848 mg/L	mg/L	0.00299	0.9848 mg/L	0.00299	0.30%
Ca 317.933†	44762.0	2.029 mg/L	mg/L	0.0050	2.029 mg/L	0.0050	0.25%
Cd 228.802†	33230.2	1.017 mg/L	mg/L	0.0016	1.017 mg/L	0.0016	0.16%
Co 228.616†	36292.7	0.9792 mg/L	mg/L	0.00158	0.9792 mg/L	0.00158	0.16%
Cr 267.716†	7567.6	0.9487 mg/L	mg/L	0.00252	0.9487 mg/L	0.00252	0.27%
Cu 324.752†	277068.3	1.041 mg/L	mg/L	0.0025	1.041 mg/L	0.0025	0.24%
Fe 273.955†	1854.1	2.025 mg/L	mg/L	0.0085	2.025 mg/L	0.0085	0.42%
K 766.490†	31041.5	19.99 mg/L	mg/L	0.027	19.99 mg/L	0.027	0.14%
Mg 279.077†	2945.5	2.022 mg/L	mg/L	0.0058	2.022 mg/L	0.0058	0.29%
Mn 257.610†	24406.6	0.9523 mg/L	mg/L	0.00167	0.9523 mg/L	0.00167	0.18%
Mo 202.031†	10306.5	0.9980 mg/L	mg/L	0.00911	0.9980 mg/L	0.00911	0.91%
Na 589.592†	296978.4	49.95 mg/L	mg/L	0.074	49.95 mg/L	0.074	0.15%
Na 330.237†	1415.1	51.66 mg/L	mg/L	0.304	51.66 mg/L	0.304	0.59%
Ni 231.604†	1901.7	0.9972 mg/L	mg/L	0.00451	0.9972 mg/L	0.00451	0.45%
Pb 220.353†	18731.3	1.966 mg/L	mg/L	0.0202	1.966 mg/L	0.0202	1.03%
Sb 206.836†	2379.3	2.152 mg/L	mg/L	0.0234	2.152 mg/L	0.0234	1.09%
Se 196.026†	3101.9	2.013 mg/L	mg/L	0.0238	2.013 mg/L	0.0238	1.18%
Si 288.158†	2738.4	2.025 mg/L	mg/L	0.0045	2.025 mg/L	0.0045	0.22%
Sr 189.927†	4370.5	0.9602 mg/L	mg/L	0.01023	0.9602 mg/L	0.01023	1.07%
Sr 421.552†	653896.7	0.9860 mg/L	mg/L	0.00056	0.9860 mg/L	0.00056	0.06%
Ti 334.903†	25338.7	1.008 mg/L	mg/L	0.0002	1.008 mg/L	0.0002	0.02%
Tl 190.801†	2191.4	1.977 mg/L	mg/L	0.0233	1.977 mg/L	0.0233	1.18%
V 292.402†	284706.4	1.006 mg/L	mg/L	0.0022	1.006 mg/L	0.0022	0.22%
Zn 206.200†	995.6	1.007 mg/L	mg/L	0.0068	1.007 mg/L	0.0068	0.67%

Sequence No.: 2
 Sample ID: CB
 Analyst:
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/28/2006 10:12:38 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 171.0 kPa 0.50 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	1783272.5	99.57	%	0.223			0.22%
ScR 361.383	209160.2	99.42	%	0.175			0.18%
Ag 328.068†	30.5	0.00010	mg/L	0.000289	0.00010	mg/L	0.000289 288.67%
Al 308.215†	-3.8	-0.00296	mg/L	0.015924	-0.00296	mg/L	0.015924 537.47%
As 188.979†	-0.2	-0.00021	mg/L	0.003954	-0.00021	mg/L	0.003954 >999.9%
B 249.677†	7.0	0.00249	mg/L	0.002296	0.00249	mg/L	0.002296 92.11%
Ba 233.527†	1.7	0.00054	mg/L	0.001702	0.00054	mg/L	0.001702 317.64%
Be 313.042†	18.0	0.00003	mg/L	0.000024	0.00003	mg/L	0.000024 79.49%
Ca 317.933†	-37.7	-0.00171	mg/L	0.000433	-0.00171	mg/L	0.000433 25.35%
Cd 228.802†	9.6	0.00030	mg/L	0.000017	0.00030	mg/L	0.000017 5.85%
Co 228.616†	3.3	0.00009	mg/L	0.000211	0.00009	mg/L	0.000211 235.74%
Cr 267.716†	6.7	0.00084	mg/L	0.001012	0.00084	mg/L	0.001012 119.92%
Cu 324.752†	7.1	0.00003	mg/L	0.000192	0.00003	mg/L	0.000192 705.89%
Fe 273.955†	7.5	0.00823	mg/L	0.001663	0.00823	mg/L	0.001663 20.19%
K 766.490†	172.9	0.1113	mg/L	0.03251	0.1113	mg/L	0.03251 29.20%
Mg 279.077†	-12.2	-0.00836	mg/L	0.018981	-0.00836	mg/L	0.018981 227.16%
Mn 257.610†	13.3	0.00052	mg/L	0.000144	0.00052	mg/L	0.000144 27.64%
Mo 202.031†	9.3	0.00090	mg/L	0.000068	0.00090	mg/L	0.000068 7.50%
Na 589.592†	211.8	0.03562	mg/L	0.010474	0.03562	mg/L	0.010474 29.40%
Na 330.237†	-2.1	-0.07676	mg/L	0.666284	-0.07676	mg/L	0.666284 868.06%
Ni 231.604†	5.4	0.00282	mg/L	0.001405	0.00282	mg/L	0.001405 49.90%
Pb 220.353†	7.7	0.00081	mg/L	0.000463	0.00081	mg/L	0.000463 56.91%
Sb 206.836†	-1.3	-0.00120	mg/L	0.000337	-0.00120	mg/L	0.000337 28.09%
Se 196.026†	-9.4	-0.00608	mg/L	0.005821	-0.00608	mg/L	0.005821 95.75%
Si 288.158†	3.8	0.00283	mg/L	0.002585	0.00283	mg/L	0.002585 91.29%
Sn 189.927†	11.6	0.00253	mg/L	0.000762	0.00253	mg/L	0.000762 30.08%
Sr 421.552†	-105.4	-0.00016	mg/L	0.000027	-0.00016	mg/L	0.000027 17.21%
Ti 334.903†	-6.0	-0.00024	mg/L	0.001151	-0.00024	mg/L	0.001151 478.80%
Tl 190.801†	0.9	0.00084	mg/L	0.003388	0.00084	mg/L	0.003388 403.04%
V 292.402†	29.2	0.00011	mg/L	0.000171	0.00011	mg/L	0.000171 156.66%
Zn 206.200†	2.6	0.00262	mg/L	0.000262	0.00262	mg/L	0.000262 10.00%

Sequence No.: 3
Sample ID: CRI
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 8
Date Collected: 8/28/2006 10:19:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CRI

Analyte Back Pressure Flow
All 171.0 kPa 0.50 L/min

Mean Data: CRI

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
ScA 357.253	1778726.2	99.32 %	%	0.577			0.58%
ScR 361.383	213768.5	101.6 %	%	0.30			0.30%
Ag 328.068†	924.3	0.00303 mg/L	mg/L	0.000187	0.00303 mg/L	0.000187	6.18%
Al 308.215†	85.1	0.06632 mg/L	mg/L	0.006834	0.06632 mg/L	0.006834	10.30%
As 188.979†	52.8	0.05319 mg/L	mg/L	0.005276	0.05319 mg/L	0.005276	9.92%
B 249.677†	63.6	0.02249 mg/L	mg/L	0.000219	0.02249 mg/L	0.000219	0.97%
Ba 233.527†	10.2	0.00330 mg/L	mg/L	0.001281	0.00330 mg/L	0.001281	38.86%
Be 313.042†	623.2	0.00104 mg/L	mg/L	0.000011	0.00104 mg/L	0.000011	1.06%
Ca 317.933†	1143.4	0.05183 mg/L	mg/L	0.000397	0.05183 mg/L	0.000397	0.77%
Cd 228.802†	76.7	0.00228 mg/L	mg/L	0.000010	0.00228 mg/L	0.000010	0.43%
Co 228.616†	124.6	0.00336 mg/L	mg/L	0.000176	0.00336 mg/L	0.000176	5.25%
Cr 267.716†	45.7	0.00573 mg/L	mg/L	0.000289	0.00573 mg/L	0.000289	5.04%
Cu 324.752†	554.0	0.00208 mg/L	mg/L	0.000074	0.00208 mg/L	0.000074	3.53%
Fe 273.955†	54.4	0.05947 mg/L	mg/L	0.001089	0.05947 mg/L	0.001089	1.83%
K 766.490†	903.7	0.5820 mg/L	mg/L	0.03944	0.5820 mg/L	0.03944	6.78%
Mg 279.077†	71.7	0.04913 mg/L	mg/L	0.010302	0.04913 mg/L	0.010302	20.97%
Mn 257.610†	37.0	0.00145 mg/L	mg/L	0.000109	0.00145 mg/L	0.000109	7.56%
Mo 202.031†	57.7	0.00558 mg/L	mg/L	0.000750	0.00558 mg/L	0.000750	13.44%
Na 589.592†	3440.2	0.5786 mg/L	mg/L	0.00712	0.5786 mg/L	0.00712	1.23%
Na 330.237†	0.8	0.03034 mg/L	mg/L	0.920381	0.03034 mg/L	0.920381	>999.9%
Ni 231.604†	19.6	0.01029 mg/L	mg/L	0.000929	0.01029 mg/L	0.000929	9.02%
Pb 220.353†	201.1	0.02111 mg/L	mg/L	0.000305	0.02111 mg/L	0.000305	1.45%
Sb 206.836†	57.8	0.05233 mg/L	mg/L	0.001068	0.05233 mg/L	0.001068	2.04%
Se 196.026†	81.1	0.05268 mg/L	mg/L	0.001856	0.05268 mg/L	0.001856	3.52%
Si 288.158†	133.4	0.09854 mg/L	mg/L	0.001064	0.09854 mg/L	0.001064	1.08%
Sn 189.927†	51.8	0.01144 mg/L	mg/L	0.000895	0.01144 mg/L	0.000895	7.82%
Sr 421.552†	545.7	0.00082 mg/L	mg/L	0.000092	0.00082 mg/L	0.000092	11.13%
Ti 334.903†	150.0	0.00597 mg/L	mg/L	0.001728	0.00597 mg/L	0.001728	28.96%
Tl 190.801†	58.8	0.05312 mg/L	mg/L	0.003856	0.05312 mg/L	0.003856	7.26%
V 292.402†	795.9	0.00283 mg/L	mg/L	0.000065	0.00283 mg/L	0.000065	2.28%
Zn 206.200†	6.2	0.00626 mg/L	mg/L	0.001742	0.00626 mg/L	0.001742	27.84%

Sequence No.: 4
 Sample ID: ICSA
 Analyst:
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 9
 Date Collected: 8/28/2006 10:25:22 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte Back Pressure Flow
 All 172.0 kPa 0.50 L/min

Mean Data: ICSA

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1672934.5	93.41	%	0.492				0.53%
ScR 361.383	207647.0	98.70	%	0.757				0.77%
Ag 328.068†	-3007.2	-0.00181	mg/L	0.000171	-0.00181	mg/L	0.000171	9.41%
Al 308.215†	255263.3	199.4	mg/L	0.68	199.4	mg/L	0.68	0.34%
As 188.979†	33.2	0.01013	mg/L	0.004154	0.01013	mg/L	0.004154	40.99%
B 249.677†	1.5	0.00052	mg/L	0.003847	0.00052	mg/L	0.003847	746.32%
Ba 233.527†	38.3	-0.00157	mg/L	0.000738	-0.00157	mg/L	0.000738	47.10%
Be 313.042†	29.3	0.00005	mg/L	0.000089	0.00005	mg/L	0.000089	189.53%
Ca 317.933†	2144598.4	97.21	mg/L	0.167	97.21	mg/L	0.167	0.17%
Cd 228.802†	49.5	-0.00048	mg/L	0.000233	-0.00048	mg/L	0.000233	48.61%
Co 228.616†	-28.0	-0.00190	mg/L	0.000192	-0.00190	mg/L	0.000192	10.07%
Cr 267.716†	-27.8	-0.00252	mg/L	0.000350	-0.00252	mg/L	0.000350	13.90%
Cu 324.752†	-4782.9	-0.00052	mg/L	0.000086	-0.00052	mg/L	0.000086	16.59%
Fe 273.955†	176819.8	193.4	mg/L	0.32	193.4	mg/L	0.32	0.16%
K 766.490†	251.9	0.1623	mg/L	0.05138	0.1623	mg/L	0.05138	31.67%
Mg 279.077†	145511.2	99.57	mg/L	0.224	99.57	mg/L	0.224	0.23%
Mn 257.610†	98.1	0.00014	mg/L	0.000572	0.00014	mg/L	0.000572	399.62%
Mo 202.031†	30.9	0.00504	mg/L	0.000188	0.00504	mg/L	0.000188	3.73%
Na 589.592†	1006.3	0.1692	mg/L	0.01753	0.1692	mg/L	0.01753	10.36%
Na 330.237†	40.9	0.6233	mg/L	0.82774	0.6233	mg/L	0.82774	132.79%
Ni 231.604†	-3.6	-0.00186	mg/L	0.001298	-0.00186	mg/L	0.001298	69.66%
Pb 220.353†	-330.3	0.00376	mg/L	0.000303	0.00376	mg/L	0.000303	8.07%
Sb 206.836†	20.9	0.01877	mg/L	0.004542	0.01877	mg/L	0.004542	24.20%
Se 196.026†	-110.9	-0.07200	mg/L	0.001085	-0.07200	mg/L	0.001085	1.51%
Si 288.158†	35.1	0.02594	mg/L	0.002481	0.02594	mg/L	0.002481	9.57%
Sn 189.927†	-86.6	-0.00436	mg/L	0.000345	-0.00436	mg/L	0.000345	7.92%
Sr 421.552†	663.3	0.00100	mg/L	0.000040	0.00100	mg/L	0.000040	4.04%
Ti 334.903†	117.4	0.00467	mg/L	0.000895	0.00467	mg/L	0.000895	19.15%
Tl 190.801†	-25.2	-0.02272	mg/L	0.004456	-0.02272	mg/L	0.004456	19.61%
V 292.402†	394.4	0.00136	mg/L	0.000057	0.00136	mg/L	0.000057	4.21%
Zn 206.200†	1.9	-0.00202	mg/L	0.002288	-0.00202	mg/L	0.002288	113.33%

Sequence No.: 5
 Sample ID: ICSAB
 Analyst:
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 10
 Date Collected: 8/28/2006 10:31:50 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte Back Pressure Flow
 All 171.0 kPa 0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1672043.7	93.36	%	0.268				0.29%
ScR 361.383	207127.0	98.46	%	0.831				0.84%
Ag 328.068†	326680.6	1.078	mg/L	0.0033	1.078	mg/L	0.0033	0.31%
Al 308.215†	257250.5	200.9	mg/L	0.34	200.9	mg/L	0.34	0.17%
As 188.979†	1066.0	1.050	mg/L	0.0032	1.050	mg/L	0.0032	0.31%
B 249.677†	-8.5	-0.00129	mg/L	0.000576	-0.00129	mg/L	0.000576	44.66%
Ba 233.527†	3080.3	0.9787	mg/L	0.01110	0.9787	mg/L	0.01110	1.13%
Be 313.042†	621147.6	1.042	mg/L	0.0065	1.042	mg/L	0.0065	0.62%
Ca 317.933†	2181343.1	98.88	mg/L	0.633	98.88	mg/L	0.633	0.64%
Cd 228.802†	33703.0	1.031	mg/L	0.0023	1.031	mg/L	0.0023	0.22%
Co 228.616†	35710.8	0.9637	mg/L	0.00528	0.9637	mg/L	0.00528	0.55%
Cr 267.716†	7635.6	0.9586	mg/L	0.00693	0.9586	mg/L	0.00693	0.72%
Cu 324.752†	281163.5	1.075	mg/L	0.0022	1.075	mg/L	0.0022	0.21%
Fe 273.955†	178769.4	195.5	mg/L	0.50	195.5	mg/L	0.50	0.26%
K 766.490†	219.1	0.1411	mg/L	0.01415	0.1411	mg/L	0.01415	10.03%
Mg 279.077†	147290.5	100.8	mg/L	0.14	100.8	mg/L	0.14	0.14%
Mn 257.610†	24695.3	0.9596	mg/L	0.00245	0.9596	mg/L	0.00245	0.26%
Mo 202.031†	31.7	0.00513	mg/L	0.000468	0.00513	mg/L	0.000468	9.12%
Na 589.592†	554.0	0.09317	mg/L	0.002748	0.09317	mg/L	0.002748	2.95%
Na 330.237†	25.5	-0.1938	mg/L	0.33781	-0.1938	mg/L	0.33781	174.29%
Ni 231.604†	1826.6	0.9573	mg/L	0.00986	0.9573	mg/L	0.00986	1.03%
Pb 220.353†	8908.9	0.9739	mg/L	0.00201	0.9739	mg/L	0.00201	0.21%
Sb 206.836†	1218.3	1.090	mg/L	0.0083	1.090	mg/L	0.0083	0.76%
Se 196.026†	1501.7	0.9738	mg/L	0.00868	0.9738	mg/L	0.00868	0.89%
Si 288.158†	45.3	0.03546	mg/L	0.005070	0.03546	mg/L	0.005070	14.30%
Sn 189.927†	-92.2	-0.00329	mg/L	0.000890	-0.00329	mg/L	0.000890	27.06%
Sr 421.552†	836.0	0.00126	mg/L	0.000042	0.00126	mg/L	0.000042	3.31%
Ti 334.903†	142.0	0.00545	mg/L	0.000360	0.00545	mg/L	0.000360	6.61%
Tl 190.801†	1063.9	0.9552	mg/L	0.00674	0.9552	mg/L	0.00674	0.71%
V 292.402†	295435.2	1.043	mg/L	0.0034	1.043	mg/L	0.0034	0.32%
Zn 206.200†	938.1	0.9452	mg/L	0.01140	0.9452	mg/L	0.01140	1.21%

Sequence No.: 6
 Sample ID: CV
 Analyst:
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 7
 Date Collected: 8/28/2006 10:38:18 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 171.0 kPa 0.50 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
ScA 357.253	1728891.9	96.54 %		0.877			0.91%
ScR 361.383	209870.6	99.76 %		0.138			0.14%
Ag 328.068†	307282.8	1.006 mg/L		0.0064	1.006 mg/L	0.0064	0.63%
Al 308.215†	2594.0	1.989 mg/L		0.0114	1.989 mg/L	0.0114	0.57%
As 188.979†	2031.5	2.043 mg/L		0.0184	2.043 mg/L	0.0184	0.90%
B 249.677†	2733.2	0.9690 mg/L		0.00605	0.9690 mg/L	0.00605	0.62%
Ba 233.527†	3000.2	0.9669 mg/L		0.00464	0.9669 mg/L	0.00464	0.48%
Be 313.042†	593695.3	0.9955 mg/L		0.00088	0.9955 mg/L	0.00088	0.09%
Ca 317.933†	45314.3	2.054 mg/L		0.0010	2.054 mg/L	0.0010	0.05%
Cd 228.802†	33515.4	1.026 mg/L		0.0046	1.026 mg/L	0.0046	0.45%
Co 228.616†	36858.6	0.9945 mg/L		0.00569	0.9945 mg/L	0.00569	0.57%
Cr 267.716†	7588.2	0.9513 mg/L		0.00269	0.9513 mg/L	0.00269	0.28%
Cu 324.752†	277948.3	1.044 mg/L		0.0065	1.044 mg/L	0.0065	0.62%
Fe 273.955†	1846.5	2.017 mg/L		0.0100	2.017 mg/L	0.0100	0.49%
K 766.490†	31299.7	20.16 mg/L		0.029	20.16 mg/L	0.029	0.14%
Mg 279.077†	2969.3	2.039 mg/L		0.0125	2.039 mg/L	0.0125	0.61%
Mn 257.610†	24506.4	0.9562 mg/L		0.00177	0.9562 mg/L	0.00177	0.19%
Mo 202.031†	10382.1	1.005 mg/L		0.0110	1.005 mg/L	0.0110	1.09%
Na 589.592†	301424.6	50.70 mg/L		0.086	50.70 mg/L	0.086	0.17%
Na 330.237†	1415.8	51.69 mg/L		0.561	51.69 mg/L	0.561	1.08%
Ni 231.604†	1896.2	0.9943 mg/L		0.00276	0.9943 mg/L	0.00276	0.28%
Pb 220.353†	18946.8	1.988 mg/L		0.0237	1.988 mg/L	0.0237	1.19%
Sb 206.836†	2399.9	2.171 mg/L		0.0249	2.171 mg/L	0.0249	1.15%
Se 196.026†	3171.3	2.058 mg/L		0.0156	2.058 mg/L	0.0156	0.76%
Si 288.158†	2754.7	2.037 mg/L		0.0119	2.037 mg/L	0.0119	0.59%
Sn 189.927†	4444.7	0.9765 mg/L		0.01067	0.9765 mg/L	0.01067	1.09%
Sr 421.552†	660021.5	0.9953 mg/L		0.00057	0.9953 mg/L	0.00057	0.06%
Ti 334.903†	25664.3	1.021 mg/L		0.0005	1.021 mg/L	0.0005	0.05%
Tl 190.801†	2221.6	2.004 mg/L		0.0204	2.004 mg/L	0.0204	1.02%
V 292.402†	286537.3	1.012 mg/L		0.0059	1.012 mg/L	0.0059	0.58%
Zn 206.200†	990.0	1.001 mg/L		0.0012	1.001 mg/L	0.0012	0.12%

Sequence No.: 7
 Sample ID: CB
 Analyst:
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/28/2006 10:44:30 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 171.0 kPa 0.50 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
ScA 357.253	1785364.9		99.69 %	0.630			0.63%
ScR 361.383	213992.2		101.7 %	1.06			1.04%
Ag 328.068†	45.3	0.00015	mg/L	0.000049	0.00015	mg/L	0.000049 33.17%
Al 308.215†	-9.4	-0.00735	mg/L	0.022432	-0.00735	mg/L	0.022432 305.18%
As 188.979†	3.9	0.00394	mg/L	0.002702	0.00394	mg/L	0.002702 68.62%
B 249.677†	16.7	0.00590	mg/L	0.000492	0.00590	mg/L	0.000492 8.34%
Ba 233.527†	-1.9	-0.00061	mg/L	0.000632	-0.00061	mg/L	0.000632 103.28%
Be 313.042†	26.3	0.00004	mg/L	0.000040	0.00004	mg/L	0.000040 90.45%
Ca 317.933†	18.9	0.00086	mg/L	0.000392	0.00086	mg/L	0.000392 45.81%
Cd 228.802†	14.5	0.00044	mg/L	0.000104	0.00044	mg/L	0.000104 23.60%
Co 228.616†	9.5	0.00026	mg/L	0.000100	0.00026	mg/L	0.000100 38.83%
Cr 267.716†	1.7	0.00021	mg/L	0.000263	0.00021	mg/L	0.000263 122.73%
Cu 324.752†	82.8	0.00031	mg/L	0.000035	0.00031	mg/L	0.000035 11.09%
Fe 273.955†	7.5	0.00817	mg/L	0.005916	0.00817	mg/L	0.005916 72.42%
K 766.490†	70.5	0.04544	mg/L	0.053505	0.04544	mg/L	0.053505 117.76%
Mg 279.077†	-23.4	-0.01602	mg/L	0.012504	-0.01602	mg/L	0.012504 78.08%
Mn 257.610†	8.5	0.00033	mg/L	0.000064	0.00033	mg/L	0.000064 19.30%
Mo 202.031†	5.7	0.00055	mg/L	0.000462	0.00055	mg/L	0.000462 83.36%
Na 589.592†	160.2	0.02694	mg/L	0.004930	0.02694	mg/L	0.004930 18.30%
Na 330.237†	-12.0	-0.4380	mg/L	0.15061	-0.4380	mg/L	0.15061 34.39%
Ni 231.604†	0.8	0.00044	mg/L	0.002249	0.00044	mg/L	0.002249 516.83%
Pb 220.353†	20.1	0.00211	mg/L	0.000590	0.00211	mg/L	0.000590 28.00%
Sb 206.836†	-0.5	-0.00041	mg/L	0.001740	-0.00041	mg/L	0.001740 424.31%
Se 196.026†	5.6	0.00366	mg/L	0.005690	0.00366	mg/L	0.005690 155.55%
Si 288.158†	7.8	0.00575	mg/L	0.001077	0.00575	mg/L	0.001077 18.75%
Sr 189.927†	14.3	0.00313	mg/L	0.000593	0.00313	mg/L	0.000593 18.95%
Sr 421.552†	-123.0	-0.00019	mg/L	0.000054	-0.00019	mg/L	0.000054 29.12%
Ti 334.903†	3.0	0.00012	mg/L	0.000503	0.00012	mg/L	0.000503 425.41%
Tl 190.801†	3.5	0.00318	mg/L	0.000836	0.00318	mg/L	0.000836 26.31%
V 292.402†	24.7	0.00009	mg/L	0.000114	0.00009	mg/L	0.000114 129.13%
Zn 206.200†	1.8	0.00186	mg/L	0.002531	0.00186	mg/L	0.002531 135.81%

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Analysis Begun

Start Time: 8/28/2006 10:50:30 AM

Plasma On Time: 8/28/2006 8:33:10 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0828A.sif

Batch ID:

Results Data Set: PE060828

Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 21

Sample ID: JS95 MB2 TWC

Date Collected: 8/28/2006 10:50:31 AM

Analyst: BLW

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution: 1X

Sample Prep Vol:

Nebulizer Parameters: JS95 MB2 TWC

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: JS95 MB2 TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1809919.9	101.1 %		0.57			0.57%
ScR 361.383	218283.7	103.8 %		1.11			1.07%
Ag 328.068†	-22.6	-0.00007 mg/L		0.000207	-0.00007 mg/L	0.000207	281.01%
Al 308.215†	27.5	0.02145 mg/L		0.018506	0.02145 mg/L	0.018506	86.29%
As 188.979†	1.5	0.00151 mg/L		0.002610	0.00151 mg/L	0.002610	172.27%
B 249.677†	6.5	0.00229 mg/L		0.000393	0.00229 mg/L	0.000393	17.17%
Ba 233.527†	-3.1	-0.00099 mg/L		0.000874	-0.00099 mg/L	0.000874	88.10%
Be 313.042†	4.4	0.00001 mg/L		0.000033	0.00001 mg/L	0.000033	461.70%
Cd 228.802†	155.7	0.00706 mg/L		0.000163	0.00706 mg/L	0.000163	2.31%
Ca 228.616†	3.3	0.00010 mg/L		0.000158	0.00010 mg/L	0.000158	156.77%
Co 228.616†	4.3	0.00012 mg/L		0.000086	0.00012 mg/L	0.000086	74.01%
Cr 267.716†	6.5	0.00081 mg/L		0.000330	0.00081 mg/L	0.000330	40.54%
Cu 324.752†	12.9	0.00005 mg/L		0.000095	0.00005 mg/L	0.000095	194.01%
Fe 273.955†	8.2	0.00895 mg/L		0.005525	0.00895 mg/L	0.005525	61.71%
K 766.490†	39.9	0.02572 mg/L		0.015109	0.02572 mg/L	0.015109	58.74%
Mg 279.077†	11.4	0.00780 mg/L		0.000764	0.00780 mg/L	0.000764	9.79%
Mn 257.610†	11.6	0.00045 mg/L		0.000145	0.00045 mg/L	0.000145	32.18%
Mo 202.031†	3.7	0.00036 mg/L		0.000311	0.00036 mg/L	0.000311	87.17%
Na 589.592†	193.9	0.03260 mg/L		0.004355	0.03260 mg/L	0.004355	13.36%
Na 330.237†	-8.0	-0.2951 mg/L		0.08508	-0.2951 mg/L	0.08508	28.83%
Ni 231.604†	5.3	0.00278 mg/L		0.001791	0.00278 mg/L	0.001791	64.51%
Pb 220.353†	-1.5	-0.00015 mg/L		0.000992	-0.00015 mg/L	0.000992	674.24%
Sb 206.836†	-1.7	-0.00150 mg/L		0.000266	-0.00150 mg/L	0.000266	17.78%
Se 196.026†	10.1	0.00656 mg/L		0.003416	0.00656 mg/L	0.003416	52.11%
Si 288.158†	12.9	0.00957 mg/L		0.001969	0.00957 mg/L	0.001969	20.58%
Sn 189.927†	7.6	0.00165 mg/L		0.000263	0.00165 mg/L	0.000263	15.96%
Sr 421.552†	-135.5	-0.00020 mg/L		0.000036	-0.00020 mg/L	0.000036	17.48%
Ti 334.903†	12.3	0.00049 mg/L		0.000847	0.00049 mg/L	0.000847	173.03%
Tl 190.801†	6.2	0.00564 mg/L		0.001901	0.00564 mg/L	0.001901	33.74%
V 292.402†	38.8	0.00014 mg/L		0.000099	0.00014 mg/L	0.000099	70.10%
Zn 206.200†	6.5	0.00656 mg/L		0.000602	0.00656 mg/L	0.000602	9.17%

Sequence No.: 2
 Sample ID: JS95 I TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 22
 Date Collected: 8/28/2006 10:56:55 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS95 I TWC
 Analyte Back Pressure Flow
 All 171.0 kPa 0.50 L/min

Mean Data: JS95 I TWC

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1764285.6	98.51 %	0.140			0.14%
ScR 361.383	215986.3	102.7 %	0.40			0.39%
Ag 328.068†	-106.0	-0.0022 mg/L	0.000341	-0.00022 mg/L	0.000341	156.61%
Al 308.215†	128.5	0.1001 mg/L	0.01017	0.1001 mg/L	0.01017	10.16%
As 188.979†	11.7	0.01027 mg/L	0.003712	0.01027 mg/L	0.003712	36.14%
B 249.677†	269.7	0.09531 mg/L	0.002396	0.09531 mg/L	0.002396	2.51%
Ba 233.527†	17.6	0.00537 mg/L	0.001366	0.00537 mg/L	0.001366	25.45%
Be 313.042†	16.3	0.00002 mg/L	0.000010	0.00002 mg/L	0.000010	42.82%
Ca 317.933†	596194.8	27.02 mg/L	0.063	27.02 mg/L	0.063	0.23%
Cd 228.802†	6.7	0.00015 mg/L	0.000113	0.00015 mg/L	0.000113	76.14%
Co 228.616†	52.7	0.00132 mg/L	0.000082	0.00132 mg/L	0.000082	6.24%
Cr 267.716†	19.4	0.00164 mg/L	0.000885	0.00164 mg/L	0.000885	53.84%
Cu 324.752†	780.1	0.00326 mg/L	0.000131	0.00326 mg/L	0.000131	4.01%
Fe 273.955†	3821.7	4.180 mg/L	0.0434	4.180 mg/L	0.0434	1.04%
K 766.490†	6587.1	4.243 mg/L	0.0032	4.243 mg/L	0.0032	0.08%
Mg 279.077†	9562.0	6.549 mg/L	0.0591	6.549 mg/L	0.0591	0.90%
Mn 257.610†	6999.5	0.2727 mg/L	0.00165	0.2727 mg/L	0.00165	0.61%
Mo 202.031†	97.6	0.00929 mg/L	0.000166	0.00929 mg/L	0.000166	1.78%
Na 589.592†	297838.3	50.09 mg/L	0.233	50.09 mg/L	0.233	0.46%
Na 330.237†	1383.8	50.29 mg/L	0.131	50.29 mg/L	0.131	0.26%
Ni 231.604†	6.0	0.00313 mg/L	0.000892	0.00313 mg/L	0.000892	28.53%
Pb 220.353†	8.4	0.00091 mg/L	0.000269	0.00091 mg/L	0.000269	29.70%
Sb 206.836†	2.6	0.00223 mg/L	0.002943	0.00223 mg/L	0.002943	131.87%
Se 196.026†	-8.5	-0.00580 mg/L	0.003618	-0.00580 mg/L	0.003618	62.34%
Si 288.158†	7151.9	5.284 mg/L	0.0386	5.284 mg/L	0.0386	0.73%
Sn 189.927†	-31.4	-0.00225 mg/L	0.000319	-0.00225 mg/L	0.000319	14.19%
Sr 421.552†	57323.0	0.08644 mg/L	0.000149	0.08644 mg/L	0.000149	0.17%
Ti 334.903†	148.6	0.00591 mg/L	0.000847	0.00591 mg/L	0.000847	14.35%
Tl 190.801†	-1.5	-0.00133 mg/L	0.005134	-0.00133 mg/L	0.005134	387.03%
V 292.402†	941.7	0.00337 mg/L	0.000117	0.00337 mg/L	0.000117	3.47%
Zn 206.200†	9.4	0.00976 mg/L	0.001072	0.00976 mg/L	0.001072	10.98%

Sequence No.: 3

Sample ID: JT02 A-L TWC

Analyst: BLW

Initial Sample Wt:

Dilution: 5X

Autosampler Location: 23

Date Collected: 8/28/2006 11:03:34 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: JT02 A-L TWC

Analyte	Back Pressure	Flow
All	172.0 kPa	0.50 L/min

Mean Data: JT02 A-L TWC

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
SCA 357.253	1738701.1	97.09 %	%	0.940			0.97%
ScR 361.383	214113.0	101.8 %	%	0.59			0.58%
Ag 328.068†	3.0	0.00001 mg/L	mg/L	0.000171	0.00005 mg/L	0.000853	>999.9%
Al 308.215†	16.3	0.01265 mg/L	mg/L	0.003435	0.06326 mg/L	0.017176	27.15%
As 188.979†	5.8	0.00563 mg/L	mg/L	0.004058	0.02813 mg/L	0.020291	72.13%
B 249.677†	132.7	0.04688 mg/L	mg/L	0.000968	0.2344 mg/L	0.00484	2.06%
Ba 233.527†	21.4	0.00690 mg/L	mg/L	0.001499	0.03449 mg/L	0.007496	21.73%
Be 313.042†	1.3	0.00000 mg/L	mg/L	0.000059	0.00001 mg/L	0.000297	>999.9%
Ca 317.933†	81933.0	3.714 mg/L	mg/L	0.1370	18.57 mg/L	0.685	3.69%
Cd 228.802†	7.3	0.00022 mg/L	mg/L	0.000096	0.00108 mg/L	0.000479	44.19%
Co 228.616†	14.4	0.00038 mg/L	mg/L	0.000075	0.00192 mg/L	0.000376	19.55%
Cr 267.716†	10.2	0.00012 mg/L	mg/L	0.000374	0.00062 mg/L	0.001869	301.83%
Cu 324.752†	362.9	0.00130 mg/L	mg/L	0.000199	0.00650 mg/L	0.000994	15.29%
Fe 273.955†	16.0	0.01754 mg/L	mg/L	0.002563	0.08769 mg/L	0.012813	14.61%
K 766.490†	6854.2	4.415 mg/L	mg/L	0.1669	22.07 mg/L	0.835	3.78%
Mg 279.077†	11014.9	7.548 mg/L	mg/L	0.2866	37.74 mg/L	1.433	3.80%
Mn 257.610†	61.4	0.00224 mg/L	mg/L	0.000281	0.01122 mg/L	0.001406	12.53%
Mo 202.031†	15.2	0.00129 mg/L	mg/L	0.000297	0.00645 mg/L	0.001484	23.00%
Na 589.592†	507104.4	85.29 mg/L	mg/L	3.281	426.4 mg/L	16.41	3.85%
Na 330.237†	2377.1	86.78 mg/L	mg/L	3.152	433.9 mg/L	15.76	3.63%
Ni 231.604†	5.2	0.00275 mg/L	mg/L	0.002536	0.01373 mg/L	0.012681	92.34%
Pb 220.353†	1.3	0.00014 mg/L	mg/L	0.000377	0.00072 mg/L	0.001886	261.41%
Sb 206.836†	0.4	0.00036 mg/L	mg/L	0.002781	0.00179 mg/L	0.013903	775.23%
Se 196.026†	1.8	0.00115 mg/L	mg/L	0.002517	0.00577 mg/L	0.012583	218.11%
Si 288.158†	1491.0	1.102 mg/L	mg/L	0.0491	5.508 mg/L	0.2455	4.46%
Sn 189.927†	-2.5	-0.00009 mg/L	mg/L	0.000783	-0.00046 mg/L	0.003916	856.35%
Sr 421.552†	28577.4	0.04309 mg/L	mg/L	0.001739	0.2155 mg/L	0.00870	4.04%
Ti 334.903†	27.1	0.00108 mg/L	mg/L	0.000777	0.00539 mg/L	0.003883	72.02%
Tl 190.801†	1.3	0.00118 mg/L	mg/L	0.002478	0.00588 mg/L	0.012391	210.77%
V 292.402†	165.7	0.00059 mg/L	mg/L	0.000188	0.00296 mg/L	0.000940	31.80%
Zn 206.200†	3.7	0.00378 mg/L	mg/L	0.000899	0.01890 mg/L	0.004494	23.78%

Sequence No.: 4

Sample ID: JT02 A TWC

Analyst: BLW

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 24

Date Collected: 8/28/2006 11:10:14 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: JT02 A TWC

Analyte	Back Pressure	Flow
All	172.0 kPa	0.50 L/min

Mean Data: JT02 A TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1659618.1	92.67 %	%	0.856			0.92%
SCR 361.383	208028.9	98.89 %	%	0.315			0.32%
Ag 328.068†	-73.3	-0.00024 mg/L	mg/L	0.000202	-0.00024 mg/L	0.000202	84.47%
Al 308.215†	0.2	0.00000 mg/L	mg/L	0.011535	0.00000 mg/L	0.011535	>999.9%
As 188.979†	10.3	0.00925 mg/L	mg/L	0.003429	0.00925 mg/L	0.003429	37.05%
B 249.677†	659.2	0.2329 mg/L	mg/L	0.00324	0.2329 mg/L	0.00324	1.39%
Ba 233.527†	88.2	0.02845 mg/L	mg/L	0.001222	0.02845 mg/L	0.001222	4.30%
Be 313.042†	4.7	0.00000 mg/L	mg/L	0.000029	0.00000 mg/L	0.000029	739.68%
Ca 317.933†	422899.9	19.17 mg/L	mg/L	0.050	19.17 mg/L	0.050	0.26%
Cd 228.802†	1.9	0.00004 mg/L	mg/L	0.000069	0.00004 mg/L	0.000069	163.30%
Co 228.616†	56.4	0.00152 mg/L	mg/L	0.000387	0.00152 mg/L	0.000387	25.51%
Cr 267.716†	37.8	-0.00113 mg/L	mg/L	0.000806	-0.00113 mg/L	0.000806	71.36%
Cu 324.752†	961.7	0.00329 mg/L	mg/L	0.000029	0.00329 mg/L	0.000029	0.89%
Fe 273.955†	65.3	0.07137 mg/L	mg/L	0.003476	0.07137 mg/L	0.003476	4.87%
K 766.490†	35618.6	22.94 mg/L	mg/L	0.042	22.94 mg/L	0.042	0.19%
Mg 279.077†	56077.7	38.43 mg/L	mg/L	0.035	38.43 mg/L	0.035	0.09%
Mn 257.610†	275.5	0.00999 mg/L	mg/L	0.000311	0.00999 mg/L	0.000311	3.11%
Mo 202.031†	59.7	0.00487 mg/L	mg/L	0.000375	0.00487 mg/L	0.000375	7.71%
Na 589.592†	2571529.5	432.5 mg/L	mg/L	2.62	432.5 mg/L	2.62	0.61%
Na 330.237†	12170.2	444.3 mg/L	mg/L	1.52	444.3 mg/L	1.52	0.34%
Ni 231.604†	5.8	0.00305 mg/L	mg/L	0.002063	0.00305 mg/L	0.002063	67.61%
Pb 220.353†	12.5	0.00132 mg/L	mg/L	0.000367	0.00132 mg/L	0.000367	27.79%
Sb 206.836†	-3.1	-0.00294 mg/L	mg/L	0.003571	-0.00294 mg/L	0.003571	121.58%
Se 196.026†	-2.2	-0.00145 mg/L	mg/L	0.001309	-0.00145 mg/L	0.001309	90.46%
Si 288.158†	7758.6	5.732 mg/L	mg/L	0.0110	5.732 mg/L	0.0110	0.19%
Sn 189.927†	-19.0	-0.00180 mg/L	mg/L	0.000741	-0.00180 mg/L	0.000741	41.13%
Sr 421.552†	148932.5	0.2246 mg/L	mg/L	0.00025	0.2246 mg/L	0.00025	0.11%
Ti 334.903†	25.9	0.00102 mg/L	mg/L	0.000938	0.00102 mg/L	0.000938	91.70%
Tl 190.801†	1.1	0.00102 mg/L	mg/L	0.003267	0.00102 mg/L	0.003267	320.39%
V 292.402†	711.2	0.00253 mg/L	mg/L	0.000124	0.00253 mg/L	0.000124	4.91%
Zn 206.200†	15.2	0.01565 mg/L	mg/L	0.002890	0.01565 mg/L	0.002890	18.47%

Sequence No.: 5
 Sample ID: JT82 F SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 25
 Date Collected: 8/28/2006 11:16:58 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT82 F SWC

Analyte Back Pressure Flow
 All 172.0 kPa 0.50 L/min

Mean Data: JT82 F SWC

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1804254.8	100.7 %	0.68			0.68%
ScR 361.383	217773.9	103.5 %	0.14			0.14%
Ag 328.068†	-1112.3	0.00079 mg/L	0.000156	0.00396 mg/L	0.000780	19.67%
Al 308.215†	98748.4	77.12 mg/L	0.029	385.6 mg/L	0.15	0.04%
As 188.979†	56.1	0.03477 mg/L	0.000209	0.1739 mg/L	0.00105	0.60%
B 249.677†	19.8	0.00533 mg/L	0.000562	0.02666 mg/L	0.002810	10.54%
Ba 233.527†	1544.2	0.4899 mg/L	0.00199	2.450 mg/L	0.0100	0.41%
Be 313.042†	1032.3	0.00128 mg/L	0.000052	0.00640 mg/L	0.000262	4.09%
Ca 317.933†	477627.9	21.65 mg/L	0.028	108.3 mg/L	0.14	0.13%
Cd 228.802†	167.9	0.00396 mg/L	0.000132	0.01980 mg/L	0.000658	3.32%
Co 228.616†	2183.0	0.04858 mg/L	0.000592	0.2429 mg/L	0.00296	1.22%
Cr 267.716†	610.2	0.08190 mg/L	0.000820	0.4095 mg/L	0.00410	1.00%
Cu 324.752†	43405.6	0.1721 mg/L	0.00084	0.8607 mg/L	0.00419	0.49%
Fe 273.955†	99612.4	108.9 mg/L	0.79	544.7 mg/L	3.94	0.72%
K 766.490†	4413.7	2.843 mg/L	0.0252	14.21 mg/L	0.126	0.89%
Mg 279.077†	25611.4	17.47 mg/L	0.045	87.35 mg/L	0.224	0.26%
Mn 257.610†	28823.8	1.123 mg/L	0.0025	5.617 mg/L	0.0125	0.22%
Mo 202.031†	17.9	0.00302 mg/L	0.000387	0.01511 mg/L	0.001937	12.82%
Na 589.592†	19797.6	3.330 mg/L	0.0207	16.65 mg/L	0.104	0.62%
Na 330.237†	60.3	3.086 mg/L	0.1699	15.43 mg/L	0.849	5.50%
Ni 231.604†	158.9	0.08324 mg/L	0.003122	0.4162 mg/L	0.01561	3.75%
Pb 220.353†	6800.8	0.7279 mg/L	0.00463	3.639 mg/L	0.0232	0.64%
Sb 206.836†	8.5	0.01199 mg/L	0.001752	0.05994 mg/L	0.008758	14.61%
Se 196.026†	-47.0	-0.03177 mg/L	0.005418	-0.1588 mg/L	0.02709	17.06%
Si 288.158†	2611.6	1.930 mg/L	0.0044	9.649 mg/L	0.0219	0.23%
Sn 189.927†	-9.6	0.00029 mg/L	0.001104	0.00145 mg/L	0.005522	380.73%
Sr 421.552†	222136.3	0.3350 mg/L	0.00028	1.675 mg/L	0.0014	0.08%
Ti 334.903†	131574.4	5.240 mg/L	0.0038	26.20 mg/L	0.019	0.07%
Tl 190.801†	-2.9	-0.00805 mg/L	0.000914	-0.04027 mg/L	0.004571	11.35%
V 292.402†	82443.4	0.2875 mg/L	0.00164	1.437 mg/L	0.0082	0.57%
Zn 206.200†	930.8	0.9396 mg/L	0.00431	4.698 mg/L	0.0216	0.46%

Sequence No.: 6

Sample ID: JT82 A-L SWC

Analyst: BLW

Initial Sample Wt:

Dilution: 25X

Autosampler Location: 26

Date Collected: 8/28/2006 11:23:23 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: JT82 A-L SWC

Analyte Back Pressure Flow
All 172.0 kPa 0.50 L/min

Mean Data: JT82 A-L SWC

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.		
ScA 357.253	1827066.0	102.0 %	%	0.09				0.09%
ScR 361.383	221515.6	105.3 %	%	0.69				0.65%
Ag 328.068†	-239.9	0.00011 mg/L	mg/L	0.000287	0.00271 mg/L	0.007183	264.94%	
Al 308.215†	24620.7	19.23 mg/L	mg/L	0.066	480.7 mg/L	1.66	0.35%	
As 188.979†	15.5	0.01112 mg/L	mg/L	0.004041	0.2779 mg/L	0.10103	36.35%	
B 249.677†	8.5	0.00270 mg/L	mg/L	0.001011	0.06740 mg/L	0.025275	37.50%	
Ba 233.527†	285.1	0.09032 mg/L	mg/L	0.002071	2.258 mg/L	0.0518	2.29%	
Be 313.042†	191.4	0.00023 mg/L	mg/L	0.000041	0.00571 mg/L	0.001020	17.87%	
Ca 317.933†	108411.8	4.914 mg/L	mg/L	0.0037	122.9 mg/L	0.09	0.07%	
Cd 228.802†	41.7	0.00103 mg/L	mg/L	0.000062	0.02582 mg/L	0.001543	5.97%	
Co 228.616†	456.2	0.01043 mg/L	mg/L	0.000160	0.2609 mg/L	0.00400	1.53%	
Cr 267.716†	160.0	0.02109 mg/L	mg/L	0.000577	0.5274 mg/L	0.01443	2.74%	
Cu 324.752†	10410.2	0.04097 mg/L	mg/L	0.000159	1.024 mg/L	0.0040	0.39%	
Fe 273.955†	20219.8	22.11 mg/L	mg/L	0.092	552.9 mg/L	2.29	0.42%	
K 766.490†	937.6	0.6039 mg/L	mg/L	0.04339	15.10 mg/L	1.085	7.19%	
Mg 279.077†	5758.9	3.930 mg/L	mg/L	0.0135	98.25 mg/L	0.337	0.34%	
Mn 257.610†	6867.7	0.2676 mg/L	mg/L	0.00086	6.691 mg/L	0.0214	0.32%	
Mo 202.031†	6.5	0.00096 mg/L	mg/L	0.000172	0.02406 mg/L	0.004303	17.89%	
Na 589.592†	5112.7	0.8599 mg/L	mg/L	0.00229	21.50 mg/L	0.057	0.27%	
Na 330.237†	33.2	1.364 mg/L	mg/L	0.4859	34.09 mg/L	12.148	35.63%	
Ni 231.604†	40.1	0.02098 mg/L	mg/L	0.001779	0.5246 mg/L	0.04446	8.48%	
Pb 220.353†	1274.8	0.1374 mg/L	mg/L	0.00082	3.434 mg/L	0.0204	0.59%	
Sb 206.836†	1.7	0.00230 mg/L	mg/L	0.002500	0.05755 mg/L	0.062497	108.60%	
Se 196.026†	-7.1	-0.00491 mg/L	mg/L	0.005697	-0.1228 mg/L	0.14241	115.99%	
Si 288.158†	323.8	0.2393 mg/L	mg/L	0.00440	5.981 mg/L	0.1099	1.84%	
Sn 189.927†	3.5	0.00135 mg/L	mg/L	0.001047	0.03387 mg/L	0.026167	77.26%	
Sr 421.552†	44519.6	0.06713 mg/L	mg/L	0.000114	1.678 mg/L	0.0028	0.17%	
Ti 334.903†	24413.2	0.9723 mg/L	mg/L	0.00306	24.31 mg/L	0.077	0.31%	
Tl 190.801†	-0.2	-0.00125 mg/L	mg/L	0.002796	-0.03133 mg/L	0.069890	223.09%	
V 292.402†	16949.8	0.05919 mg/L	mg/L	0.000241	1.480 mg/L	0.0060	0.41%	
Zn 206.200†	188.9	0.1907 mg/L	mg/L	0.00339	4.767 mg/L	0.0847	1.78%	

Sequence No.: 7

Sample ID: JT82 A SWC

Analyst: BLW

Initial Sample Wt:

Dilution: 5X

Autosampler Location: 27

Date Collected: 8/28/2006 11:29:47 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: JT82 A SWC

Analyte	Back Pressure	Flow
All	172.0 kPa	0.50 L/min

Mean Data: JT82 A SWC

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
ScA 357.253	1816566.8	101.4 %		0.71			0.70%
ScR 361.383	220627.9	104.9 %		0.88			0.83%
Ag 328.068†	-1016.5	0.00104 mg/L		0.000178	0.00522 mg/L	0.000891	17.07%
Al 308.215†	120672.4	94.24 mg/L		0.241	471.2 mg/L	1.21	0.26%
As 188.979†	50.3	0.02827 mg/L		0.002985	0.1413 mg/L	0.01493	10.56%
B 249.677†	24.8	0.00728 mg/L		0.001768	0.03642 mg/L	0.008842	24.28%
Ba 233.527†	1393.7	0.4414 mg/L		0.00405	2.207 mg/L	0.0202	0.92%
Be 313.042†	1060.4	0.00132 mg/L		0.000037	0.00661 mg/L	0.000184	2.79%
Ca 317.933†	529261.9	23.99 mg/L		0.080	120.0 mg/L	0.40	0.33%
Cd 228.802†	181.2	0.00439 mg/L		0.000125	0.02195 mg/L	0.000625	2.85%
Co 228.616†	2127.4	0.04809 mg/L		0.000142	0.2404 mg/L	0.00071	0.30%
Cr 267.716†	758.9	0.1002 mg/L		0.00109	0.5010 mg/L	0.00545	1.09%
Cu 324.752†	51218.7	0.2015 mg/L		0.00073	1.008 mg/L	0.0036	0.36%
Fe 273.955†	98859.5	108.1 mg/L		0.58	540.6 mg/L	2.88	0.53%
K 766.490†	4514.3	2.908 mg/L		0.0242	14.54 mg/L	0.121	0.83%
Mg 279.077†	27908.0	19.04 mg/L		0.011	95.22 mg/L	0.057	0.06%
Mn 257.610†	33409.7	1.302 mg/L		0.0069	6.510 mg/L	0.0345	0.53%
Mo 202.031†	16.4	0.00322 mg/L		0.000141	0.01611 mg/L	0.000704	4.37%
Na 589.592†	23479.2	3.949 mg/L		0.0125	19.74 mg/L	0.062	0.32%
Na 330.237†	79.7	3.673 mg/L		0.0434	18.36 mg/L	0.217	1.18%
Ni 231.604†	194.0	0.1016 mg/L		0.00325	0.5079 mg/L	0.01627	3.20%
Pb 220.353†	6247.9	0.6732 mg/L		0.00201	3.366 mg/L	0.0100	0.30%
Sb 206.836†	8.9	0.01174 mg/L		0.000984	0.05868 mg/L	0.004921	8.39%
Se 196.026†	-45.3	-0.03088 mg/L		0.002209	-0.1544 mg/L	0.01105	7.16%
Si 288.158†	2027.8	1.498 mg/L		0.0139	7.492 mg/L	0.0694	0.93%
Sn 189.927†	-8.2	0.00105 mg/L		0.000856	0.00524 mg/L	0.004281	81.70%
Sr 421.552†	219434.5	0.3309 mg/L		0.00133	1.654 mg/L	0.0066	0.40%
Ti 334.903†	121530.8	4.840 mg/L		0.0195	24.20 mg/L	0.097	0.40%
Tl 190.801†	-3.7	-0.00846 mg/L		0.002043	-0.04232 mg/L	0.010215	24.14%
V 292.402†	83598.0	0.2919 mg/L		0.00067	1.459 mg/L	0.0033	0.23%
Zn 206.200†	932.3	0.9413 mg/L		0.00935	4.706 mg/L	0.0468	0.99%

Sequence No.: 8
Sample ID: JT82 ADUP SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 28
Date Collected: 8/28/2006 11:36:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT82 ADUP SWC
Analyte Back Pressure Flow
All 173.0 kPa 0.50 L/min

Mean Data: JT82 ADUP SWC

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
ScA 357.253	2046706.7	114.3 %		1.33			1.17%
ScR 361.383	244544.0	116.2 %		0.87			0.74%
Ag 328.068†	-590.8	0.00053 mg/L		0.000160	0.00266 mg/L	0.000798	29.95%
Al 308.215†	64880.5	50.67 mg/L		0.150	253.3 mg/L	0.75	0.30%
As 188.979†	26.4	0.01329 mg/L		0.001027	0.06647 mg/L	0.005137	7.73%
B 249.677†	17.1	0.00513 mg/L		0.001403	0.02566 mg/L	0.007014	27.33%
Ba 233.527†	7905.8	2.545 mg/L		0.0191	12.72 mg/L	0.096	0.75%
Be 313.042†	479.5	0.00055 mg/L		0.000053	0.00276 mg/L	0.000264	9.57%
Ca 317.933†	291431.0	13.21 mg/L		0.028	66.05 mg/L	0.142	0.21%
Cd 228.802†	85.7	0.00187 mg/L		0.000068	0.00933 mg/L	0.000340	3.64%
Co 228.616†	1274.1	0.02818 mg/L		0.000208	0.1409 mg/L	0.00104	0.74%
Cr 267.716†	415.6	0.05496 mg/L		0.000598	0.2748 mg/L	0.00299	1.09%
Cu 324.752†	23890.2	0.09481 mg/L		0.000720	0.4741 mg/L	0.00360	0.76%
Fe 273.955†	55615.4	60.83 mg/L		0.365	304.1 mg/L	1.83	0.60%
K 766.490†	2247.4	1.448 mg/L		0.0406	7.238 mg/L	0.2031	2.81%
Mg 279.077†	15587.6	10.64 mg/L		0.021	53.18 mg/L	0.105	0.20%
Mn 257.610†	17492.1	0.6816 mg/L		0.00193	3.408 mg/L	0.0097	0.28%
Mo 202.031†	11.8	0.00202 mg/L		0.000078	0.01008 mg/L	0.000392	3.89%
Na 589.592†	12383.6	2.083 mg/L		0.0087	10.41 mg/L	0.043	0.42%
Na 330.237†	46.6	2.194 mg/L		0.1467	10.97 mg/L	0.734	6.69%
Ni 231.604†	100.0	0.05235 mg/L		0.001611	0.2617 mg/L	0.00806	3.08%
Pb 220.353†	3354.4	0.3615 mg/L	60%	0.00281	1.807 mg/L	0.0141	0.78%
Sb 206.836†	2.2	0.00430 mg/L		0.003320	0.02149 mg/L	0.016602	77.26%
Se 196.026†	-24.7	-0.01681 mg/L		0.003117	-0.08403 mg/L	0.015583	18.55%
Si 288.158†	2858.4	2.112 mg/L		0.0165	10.56 mg/L	0.082	0.78%
Sr 189.927†	0.9	0.00169 mg/L		0.001067	0.00846 mg/L	0.005335	63.08%
Sn 421.552†	140604.4	0.2120 mg/L		0.00065	1.060 mg/L	0.0033	0.31%
Ti 334.903†	73770.3	2.938 mg/L		0.0082	14.69 mg/L	0.041	0.28%
Tl 190.801†	-0.8	-0.00382 mg/L		0.005598	-0.01910 mg/L	0.027992	146.55%
V 292.402†	46228.5	0.1613 mg/L		0.00073	0.8064 mg/L	0.00363	0.45%
Zn 206.200†	500.5	0.5053 mg/L	60%	0.00331	2.526 mg/L	0.0165	0.66%

Sequence No.: 9
Sample ID: JT82 ASPK SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 29
Date Collected: 8/28/2006 11:42:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT82 ASPK SWC
Analyte Back Pressure Flow
All 173.0 kPa 0.50 L/min

Mean Data: JT82 ASPK SWC

Table with columns: Analyte, Mean Corrected Intensity, Calib Conc. Units, Std.Dev., Sample Conc. Units, Std.Dev., RSD. Lists various elements like ScA, ScR, Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn with their respective values.

Sequence No.: 10

Sample ID: JS95 MB2SPK TWC

Analyst: BLW

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 30

Date Collected: 8/28/2006 11:48:50 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: JS95 MB2SPK TWC

Analyte

Back Pressure

Flow

All

173.0 kPa

0.50 L/min

Mean Data: JS95 MB2SPK TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2140257.5		119.5 %	0.61				0.51%
ScR 361.383	266755.7		126.8 %	0.72				0.57%
Ag 328.068†	151169.8		0.4952 mg/L	0.00195	0.4952 mg/L	0.00195		0.39%
Al 308.215†	2600.7		2.023 mg/L	0.0086	2.023 mg/L	0.0086		0.42%
As 188.979†	2106.1		2.122 mg/L	0.0008	2.122 mg/L	0.0008		0.04%
B 249.677†	0.8		0.00120 mg/L	0.001109	0.00120 mg/L	0.001109		92.46%
Ba 233.527†	6087.9		1.963 mg/L	0.0160	1.963 mg/L	0.0160		0.82%
Be 313.042†	317219.5		0.5320 mg/L	0.00178	0.5320 mg/L	0.00178		0.33%
Ca 317.933†	232653.9		10.55 mg/L	0.034	10.55 mg/L	0.034		0.32%
Cd 228.802†	16839.9		0.5140 mg/L	0.00177	0.5140 mg/L	0.00177		0.34%
Co 228.616†	18591.6		0.5020 mg/L	0.00166	0.5020 mg/L	0.00166		0.33%
Cr 267.716†	4022.3		0.5030 mg/L	0.00298	0.5030 mg/L	0.00298		0.59%
Cu 324.752†	131017.6		0.4926 mg/L	0.00216	0.4926 mg/L	0.00216		0.44%
Fe 273.955†	1962.4		2.145 mg/L	0.0157	2.145 mg/L	0.0157		0.73%
K 766.490†	15523.2		9.998 mg/L	0.0812	9.998 mg/L	0.0812		0.81%
Mg 279.077†	16012.2		10.97 mg/L	0.040	10.97 mg/L	0.040		0.36%
Mn 257.610†	12839.2		0.5010 mg/L	0.00280	0.5010 mg/L	0.00280		0.56%
Mo 202.031†	19.3		0.00166 mg/L	0.000099	0.00166 mg/L	0.000099		5.96%
Na 589.592†	60354.1		10.15 mg/L	0.027	10.15 mg/L	0.027		0.26%
Na 330.237†	310.8		11.12 mg/L	0.262	11.12 mg/L	0.262		2.35%
Ni 231.604†	985.6		0.5162 mg/L	0.00452	0.5162 mg/L	0.00452		0.88%
Pb 220.353†	19889.9		2.086 mg/L	0.0111	2.086 mg/L	0.0111		0.53%
Sb 206.836†	4.6		-0.00213 mg/L	0.003788	-0.00213 mg/L	0.003788		178.24%
Se 196.026†	3358.4		2.180 mg/L	0.0058	2.180 mg/L	0.0058		0.26%
Si 288.158†	20.2		0.01598 mg/L	0.003072	0.01598 mg/L	0.003072		19.22%
Sn 189.927†	-12.0		-0.00094 mg/L	0.000442	-0.00094 mg/L	0.000442		46.88%
Sr 421.552†	329088.3		0.4962 mg/L	0.00235	0.4962 mg/L	0.00235		0.47%
Ti 334.903†	72.6		0.00278 mg/L	0.000722	0.00278 mg/L	0.000722		25.92%
Tl 190.801†	2273.2		2.051 mg/L	0.0050	2.051 mg/L	0.0050		0.25%
V 292.402†	146087.4		0.5162 mg/L	0.00173	0.5162 mg/L	0.00173		0.33%
Zn 206.200†	529.6		0.5360 mg/L	0.00142	0.5360 mg/L	0.00142		0.26%

Sequence No.: 11
 Sample ID: CV 2
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 7
 Date Collected: 8/28/2006 11:55:16 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
ScA 357.253	2084803.7	116.4 %		0.13			0.12%
ScR 361.383	257552.9	122.4 %		0.50			0.41%
Ag 328.068†	303781.3	0.9950 mg/L		0.00194	0.9950 mg/L	0.00194	0.20%
Al 308.215†	2615.1	2.005 mg/L		0.0069	2.005 mg/L	0.0069	0.34%
As 188.979†	2067.6	2.080 mg/L		0.0061	2.080 mg/L	0.0061	0.29%
B 249.677†	2863.2	1.015 mg/L		0.0056	1.015 mg/L	0.0056	0.55%
Ba 233.527†	3097.0	0.9981 mg/L		0.00770	0.9981 mg/L	0.00770	0.77%
Be 313.042†	610220.3	1.023 mg/L		0.0052	1.023 mg/L	0.0052	0.51%
Ca 317.933†	46845.8	2.123 mg/L		0.0127	2.123 mg/L	0.0127	0.60%
Cd 228.802†	33671.4	1.031 mg/L		0.0025	1.031 mg/L	0.0025	0.25%
Co 228.616†	37265.9	1.006 mg/L		0.0050	1.006 mg/L	0.0050	0.50%
Cr 267.716†	7889.3	0.9890 mg/L		0.00619	0.9890 mg/L	0.00619	0.63%
Cu 324.752†	274458.7	1.031 mg/L		0.0018	1.031 mg/L	0.0018	0.18%
Fe 273.955†	1952.1	2.133 mg/L		0.0197	2.133 mg/L	0.0197	0.92%
K 766.490†	30355.4	19.55 mg/L		0.009	19.55 mg/L	0.009	0.05%
Mg 279.077†	3141.4	2.157 mg/L		0.0141	2.157 mg/L	0.0141	0.65%
Mn 257.610†	25028.1	0.9765 mg/L		0.00363	0.9765 mg/L	0.00363	0.37%
Mo 202.031†	10469.0	1.014 mg/L		0.0023	1.014 mg/L	0.0023	0.23%
Na 589.592†	294994.3	49.61 mg/L		0.168	49.61 mg/L	0.168	0.34%
Na 330.237†	1384.9	50.54 mg/L		0.435	50.54 mg/L	0.435	0.86%
Ni 231.604†	2003.9	1.051 mg/L		0.0081	1.051 mg/L	0.0081	0.77%
Pb 220.353†	19820.6	2.080 mg/L		0.0123	2.080 mg/L	0.0123	0.59%
Sb 206.836†	2428.0	2.196 mg/L		0.0036	2.196 mg/L	0.0036	0.16%
Se 196.026†	3246.6	2.107 mg/L		0.0068	2.107 mg/L	0.0068	0.32%
Si 288.158†	2805.7	2.075 mg/L		0.0044	2.075 mg/L	0.0044	0.21%
Sn 189.927†	4557.9	1.001 mg/L		0.0021	1.001 mg/L	0.0021	0.21%
Sr 421.552†	650306.7	0.9806 mg/L		0.00432	0.9806 mg/L	0.00432	0.44%
Ti 334.903†	25859.6	1.029 mg/L		0.0055	1.029 mg/L	0.0055	0.53%
Tl 190.801†	2232.8	2.014 mg/L		0.0048	2.014 mg/L	0.0048	0.24%
V 292.402†	287530.6	1.016 mg/L		0.0026	1.016 mg/L	0.0026	0.25%
Zn 206.200†	1073.5	1.086 mg/L		0.0062	1.086 mg/L	0.0062	0.57%

Sequence No.: 12
 Sample ID: CB
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/28/2006 12:01:29 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 173.0 kPa 0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2103281.2	117.4 %		0.65			0.55%
ScR 361.383	255657.9	121.5 %		0.25			0.20%
Ag 328.068†	-18.3	-0.00006 mg/L		0.000045	-0.00006 mg/L	0.000045	75.07%
Al 308.215†	13.1	0.01024 mg/L		0.016538	0.01024 mg/L	0.016538	161.47%
As 188.979†	0.6	0.00061 mg/L		0.001754	0.00061 mg/L	0.001754	285.55%
B 249.677†	19.3	0.00681 mg/L		0.002508	0.00681 mg/L	0.002508	36.84%
Ba 233.527†	-3.3	-0.00108 mg/L		0.001139	-0.00108 mg/L	0.001139	105.91%
Be 313.042†	-62.8	-0.00011 mg/L		0.000012	-0.00011 mg/L	0.000012	11.65%
Ca 317.933†	-2.1	-0.00010 mg/L		0.000602	-0.00010 mg/L	0.000602	632.91%
Cd 228.802†	2.0	0.00006 mg/L		0.000036	0.00006 mg/L	0.000036	59.43%
Co 228.616†	10.0	0.00027 mg/L		0.000253	0.00027 mg/L	0.000253	94.10%
Cr 267.716†	-4.5	-0.00056 mg/L		0.000302	-0.00056 mg/L	0.000302	53.86%
Cu 324.752†	-18.8	-0.00007 mg/L		0.000306	-0.00007 mg/L	0.000306	435.56%
Fe 273.955†	8.8	0.00964 mg/L		0.002713	0.00964 mg/L	0.002713	28.14%
K 766.490†	-223.1	-0.1437 mg/L		0.01040	-0.1437 mg/L	0.01040	7.23%
Mg 279.077†	-7.0	-0.00478 mg/L		0.013089	-0.00478 mg/L	0.013089	273.75%
Mn 257.610†	5.7	0.00022 mg/L		0.000059	0.00022 mg/L	0.000059	26.48%
Mo 202.031†	7.1	0.00069 mg/L		0.000155	0.00069 mg/L	0.000155	22.56%
Na 589.592†	230.1	0.03870 mg/L		0.002469	0.03870 mg/L	0.002469	6.38%
Na 330.237†	11.5	0.4181 mg/L		0.41293	0.4181 mg/L	0.41293	98.75%
Ni 231.604†	3.8	0.00199 mg/L		0.001645	0.00199 mg/L	0.001645	82.56%
Pb 220.353†	12.5	0.00132 mg/L		0.000612	0.00132 mg/L	0.000612	46.47%
Sb 206.836†	-1.1	-0.00093 mg/L		0.000671	-0.00093 mg/L	0.000671	72.22%
Se 196.026†	7.0	0.00454 mg/L		0.002262	0.00454 mg/L	0.002262	49.87%
Si 288.158†	14.2	0.01051 mg/L		0.002626	0.01051 mg/L	0.002626	24.98%
Sn 189.927†	12.9	0.00282 mg/L		0.000609	0.00282 mg/L	0.000609	21.58%
Sr 421.552†	-123.9	-0.00019 mg/L		0.000004	-0.00019 mg/L	0.000004	2.37%
Ti 334.903†	11.9	0.00047 mg/L		0.000172	0.00047 mg/L	0.000172	36.36%
Tl 190.801†	7.1	0.00640 mg/L		0.001779	0.00640 mg/L	0.001779	27.80%
V 292.402†	34.2	0.00012 mg/L		0.000135	0.00012 mg/L	0.000135	116.29%
Zn 206.200†	2.5	0.00253 mg/L		0.002315	0.00253 mg/L	0.002315	91.44%

Sequence No.: 13
 Sample ID: DI CHECK
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 31
 Date Collected: 8/28/2006 12:07:51 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: DI CHECK

Analyte	Back Pressure	Flow
All	173.0 kPa	0.50 L/min

Mean Data: DI CHECK

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2152270.6	120.2 %		0.52			0.43%
ScR 361.383	262415.8	124.7 %		1.64			1.32%
Ag 328.068†	-45.5	-0.00015 mg/L		0.000217	-0.00015 mg/L	0.000217	145.82%
Al 308.215†	20.8	0.01621 mg/L		0.004715	0.01621 mg/L	0.004715	29.09%
As 188.979†	2.6	0.00258 mg/L		0.001896	0.00258 mg/L	0.001896	73.54%
B 249.677†	10.8	0.00381 mg/L		0.000323	0.00381 mg/L	0.000323	8.47%
Ba 233.527†	-1.4	-0.00044 mg/L		0.000620	-0.00044 mg/L	0.000620	139.35%
Be 313.042†	-68.4	-0.00011 mg/L		0.000023	-0.00011 mg/L	0.000023	20.05%
Ca 317.933†	-75.8	-0.00344 mg/L		0.001532	-0.00344 mg/L	0.001532	44.57%
Cd 228.802†	1.9	0.00005 mg/L		0.000046	0.00005 mg/L	0.000046	86.19%
Co 228.616†	2.1	0.00005 mg/L		0.000122	0.00005 mg/L	0.000122	224.25%
Cr 267.716†	3.5	0.00044 mg/L		0.000313	0.00044 mg/L	0.000313	71.50%
Cu 324.752†	-209.8	-0.00079 mg/L		0.000146	-0.00079 mg/L	0.000146	18.57%
Fe 273.955†	9.1	0.00999 mg/L		0.001305	0.00999 mg/L	0.001305	13.06%
K 766.490†	-203.0	-0.1307 mg/L		0.02500	-0.1307 mg/L	0.02500	19.12%
Mg 279.077†	4.6	0.00312 mg/L		0.004330	0.00312 mg/L	0.004330	138.57%
Mn 257.610†	-2.1	-0.00008 mg/L		0.000073	-0.00008 mg/L	0.000073	88.28%
Mo 202.031†	1.7	0.00017 mg/L		0.000404	0.00017 mg/L	0.000404	238.84%
Na 589.592†	368.3	0.06194 mg/L		0.001447	0.06194 mg/L	0.001447	2.34%
Na 330.237†	14.5	0.5307 mg/L		0.48752	0.5307 mg/L	0.48752	91.86%
Ni 231.604†	2.1	0.00111 mg/L		0.001344	0.00111 mg/L	0.001344	120.78%
Pb 220.353†	-14.6	-0.00152 mg/L		0.000228	-0.00152 mg/L	0.000228	15.01%
Sb 206.836†	-4.3	-0.00387 mg/L		0.001962	-0.00387 mg/L	0.001962	50.72%
Se 196.026†	17.6	0.01146 mg/L		0.002746	0.01146 mg/L	0.002746	23.97%
Si 288.158†	7.0	0.00516 mg/L		0.001821	0.00516 mg/L	0.001821	35.29%
Sn 189.927†	3.4	0.00073 mg/L		0.000890	0.00073 mg/L	0.000890	121.24%
Sr 421.552†	-141.6	-0.00021 mg/L		0.000078	-0.00021 mg/L	0.000078	36.52%
Ti 334.903†	14.2	0.00057 mg/L		0.001274	0.00057 mg/L	0.001274	225.33%
Tl 190.801†	1.5	0.00137 mg/L		0.002973	0.00137 mg/L	0.002973	217.69%
V 292.402†	3.8	0.00002 mg/L		0.000147	0.00002 mg/L	0.000147	913.49%
Zn 206.200†	2.8	0.00279 mg/L		0.001125	0.00279 mg/L	0.001125	40.25%

Sequence No.: 14

Sample ID: JT02 MB1 TWC

Analyst: BLW

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 32

Date Collected: 8/28/2006 12:14:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: JT02 MB1 TWC

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: JT02 MB1 TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2140701.8	119.5 %		0.12			0.10%
ScR 361.383	259859.1	123.5 %		0.81			0.66%
Ag 328.068†	-14.6	-0.00005 mg/L		0.000116	-0.00005 mg/L	0.000116	244.91%
Al 308.215†	25.0	0.01950 mg/L		0.019438	0.01950 mg/L	0.019438	99.68%
As 188.979†	4.2	0.00427 mg/L		0.001198	0.00427 mg/L	0.001198	28.06%
B 249.677†	2.4	0.00086 mg/L		0.001342	0.00086 mg/L	0.001342	156.79%
Ba 233.527†	-3.6	-0.00118 mg/L		0.000191	-0.00118 mg/L	0.000191	16.22%
Be 313.042†	-76.5	-0.00013 mg/L		0.000006	-0.00013 mg/L	0.000006	4.50%
Ca 317.933†	206.4	0.00935 mg/L		0.000062	0.00935 mg/L	0.000062	0.66%
Cd 228.802†	-2.5	-0.00008 mg/L		0.000129	-0.00008 mg/L	0.000129	154.23%
Co 228.616†	12.4	0.00034 mg/L		0.000087	0.00034 mg/L	0.000087	25.83%
Cr 267.716†	10.4	0.00131 mg/L		0.000083	0.00131 mg/L	0.000083	6.37%
Cu 324.752†	-200.9	-0.00075 mg/L		0.000165	-0.00075 mg/L	0.000165	21.84%
Fe 273.955†	10.5	0.01150 mg/L		0.000327	0.01150 mg/L	0.000327	2.85%
K 766.490†	-252.8	-0.1628 mg/L		0.02888	-0.1628 mg/L	0.02888	17.74%
Mg 279.077†	-4.3	-0.00297 mg/L		0.009908	-0.00297 mg/L	0.009908	333.69%
Mn 257.610†	2.0	0.00008 mg/L		0.000165	0.00008 mg/L	0.000165	213.43%
Mo 202.031†	2.6	0.00025 mg/L		0.000161	0.00025 mg/L	0.000161	64.41%
Na 589.592†	22.0	0.00370 mg/L		0.003774	0.00370 mg/L	0.003774	101.94%
Na 330.237†	11.3	0.4095 mg/L		0.34185	0.4095 mg/L	0.34185	83.48%
Ni 231.604†	2.8	0.00145 mg/L		0.002140	0.00145 mg/L	0.002140	147.94%
Pb 220.353†	-0.9	-0.00009 mg/L		0.000180	-0.00009 mg/L	0.000180	197.94%
Sb 206.836†	-3.0	-0.00274 mg/L		0.002061	-0.00274 mg/L	0.002061	75.32%
Se 196.026†	10.0	0.00650 mg/L		0.003650	0.00650 mg/L	0.003650	56.13%
Si 288.158†	22.5	0.01664 mg/L		0.002046	0.01664 mg/L	0.002046	12.29%
Sn 189.927†	11.4	0.00249 mg/L		0.000420	0.00249 mg/L	0.000420	16.83%
Sr 421.552†	-101.2	-0.00015 mg/L		0.000036	-0.00015 mg/L	0.000036	23.91%
Ti 334.903†	11.0	0.00044 mg/L		0.001146	0.00044 mg/L	0.001146	262.37%
Tl 190.801†	2.7	0.00244 mg/L		0.000859	0.00244 mg/L	0.000859	35.19%
V 292.402†	20.4	0.00008 mg/L		0.000086	0.00008 mg/L	0.000086	106.21%
Zn 206.200†	8.8	0.00887 mg/L		0.000998	0.00887 mg/L	0.000998	11.25%

Sequence No.: 15

Autosampler Location: 33

Sample ID: SPEX 21

Date Collected: 8/28/2006 12:20:55 PM

Analyst: BLW

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution: 1X

Sample Prep Vol:

Nebulizer Parameters: SPEX 21

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: SPEX 21

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2146369.4	119.8	%	0.13			0.11%
ScR 361.383	265252.7	126.1	%	0.45			0.36%
Ag 328.068†	-106.8	-0.00017	mg/L	0.000142	-0.00017 mg/L	0.000142	82.06%
Al 308.215†	119.5	0.01728	mg/L	0.003276	0.01728 mg/L	0.003276	18.96%
As 188.979†	2065.6	2.074	mg/L ✓	0.0191	2.074 mg/L	0.0191	0.92%
B 249.677†	-10.3	0.00346	mg/L	0.000978	0.00346 mg/L	0.000978	28.25%
Ba 233.527†	-0.6	-0.00101	mg/L	0.000274	-0.00101 mg/L	0.000274	27.17%
Be 313.042†	1220004.0	2.046	mg/L ✓	0.0016	2.046 mg/L	0.0016	0.08%
Ca 317.933†	46613.8	2.113	mg/L ✓	0.0076	2.113 mg/L	0.0076	0.36%
Cd 228.802†	65997.7	2.023	mg/L ✓	0.0003	2.023 mg/L	0.0003	0.01%
Co 228.616†	76622.7	2.068	mg/L ✓	0.0028	2.068 mg/L	0.0028	0.14%
Cr 267.716†	16113.0	2.020	mg/L ✓	0.0091	2.020 mg/L	0.0091	0.45%
Cu 324.752†	528753.9	1.986	mg/L ✓	0.0032	1.986 mg/L	0.0032	0.16%
Fe 273.955†	1938.4	2.115	mg/L ✓	0.0071	2.115 mg/L	0.0071	0.34%
K 766.490†	-305.2	-0.1966	mg/L	0.00879	-0.1966 mg/L	0.00879	4.47%
Mg 279.077†	3190.5	2.196	mg/L ✓	0.0118	2.196 mg/L	0.0118	0.54%
Mn 257.610†	51468.5	2.008	mg/L ✓	0.0124	2.008 mg/L	0.0124	0.62%
Mo 202.031†	21264.3	2.059	mg/L ✓	0.0053	2.059 mg/L	0.0053	0.26%
Na 589.592†	-55.1	-0.00927	mg/L	0.005031	-0.00927 mg/L	0.005031	54.24%
Na 330.237†	8.2	0.2620	mg/L	0.54296	0.2620 mg/L	0.54296	207.22%
Ni 231.604†	4022.7	2.108	mg/L ✓	0.0053	2.108 mg/L	0.0053	0.25%
Pb 220.353†	20107.1	2.111	mg/L ✓	0.0088	2.111 mg/L	0.0088	0.42%
Sb 206.836†	2414.7	2.160	mg/L ✓	0.0111	2.160 mg/L	0.0111	0.51%
Se 196.026†	3248.3	2.106	mg/L ✓	0.0204	2.106 mg/L	0.0204	0.97%
Si 288.158†	103.0	0.08037	mg/L	0.001216	0.08037 mg/L	0.001216	1.51%
Sn 189.927†	-8.7	0.00212	mg/L	0.001013	0.00212 mg/L	0.001013	47.75%
Sr 421.552†	1314890.0	1.983	mg/L ✓	0.0031	1.983 mg/L	0.0031	0.16%
Ti 334.903†	50745.6	2.019	mg/L ✓	0.0079	2.019 mg/L	0.0079	0.39%
Tl 190.801†	2399.6	2.161	mg/L ✓	0.0118	2.161 mg/L	0.0118	0.55%
V 292.402†	579021.2	2.047	mg/L ✓	0.0022	2.047 mg/L	0.0022	0.11%
Zn 206.200†	2061.8	2.085	mg/L ✓	0.0042	2.085 mg/L	0.0042	0.20%

Sequence No.: 16

Sample ID: QC7M

Analyst: BLW

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 34

Date Collected: 8/28/2006 12:27:27 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: QC7M

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: QC7M

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2155618.5	120.4 %	0.12			0.10%
ScR 361.383	264737.6	125.8 %	0.24			0.19%
Ag 328.068†	297542.4	0.9744 mg/L ✓	0.00243	0.9744 mg/L	0.00243	0.25%
Al 308.215†	2588.9	2.022 mg/L ✓	0.0056	2.022 mg/L	0.0056	0.28%
As 188.979†	1.1	0.00064 mg/L	0.001633	0.00064 mg/L	0.001633	256.59%
B 249.677†	5857.2	2.069 mg/L ✓	0.0079	2.069 mg/L	0.0079	0.38%
Ba 233.527†	6058.3	1.953 mg/L ✓	0.0052	1.953 mg/L	0.0052	0.27%
Be 313.042†	-66.0	-0.00011 mg/L	0.000019	-0.00011 mg/L	0.000019	17.22%
Ca 317.933†	-13.7	-0.00062 mg/L	0.000646	-0.00062 mg/L	0.000646	103.98%
Cd 228.802†	5.4	0.00007 mg/L	0.000030	0.00007 mg/L	0.000030	40.93%
Co 228.616†	29.7	0.00036 mg/L	0.000053	0.00036 mg/L	0.000053	14.45%
Cr 267.716†	2.3	0.00029 mg/L	0.000359	0.00029 mg/L	0.000359	124.82%
Cu 324.752†	-113.0	-0.00042 mg/L	0.000021	-0.00042 mg/L	0.000021	4.97%
Fe 273.955†	11.8	0.01290 mg/L	0.002362	0.01290 mg/L	0.002362	18.32%
K 766.490†	31009.9	19.97 mg/L ✓	0.056	19.97 mg/L	0.056	0.28%
Mg 279.077†	4.9	0.00334 mg/L	0.005346	0.00334 mg/L	0.005346	160.01%
Mn 257.610†	6.6	0.00024 mg/L	0.000185	0.00024 mg/L	0.000185	76.13%
Mo 202.031†	15.9	0.00159 mg/L	0.000204	0.00159 mg/L	0.000204	12.87%
Na 589.592†	12224.4	2.056 mg/L ✓	0.0085	2.056 mg/L	0.0085	0.41%
Na 330.237†	78.4	2.862 mg/L	0.3994	2.862 mg/L	0.3994	13.95%
Ni 231.604†	1.1	0.00057 mg/L	0.002881	0.00057 mg/L	0.002881	508.51%
Pb 220.353†	-7.8	-0.00042 mg/L	0.000376	-0.00042 mg/L	0.000376	88.52%
Sb 206.836†	-2.1	-0.00185 mg/L	0.002345	-0.00185 mg/L	0.002345	126.47%
Se 196.026†	9.7	0.00629 mg/L	0.002235	0.00629 mg/L	0.002235	35.55%
Si 288.158†	2790.3	2.062 mg/L ✓	0.0003	2.062 mg/L	0.0003	0.02%
Sn 189.927†	12.0	0.00261 mg/L	0.000958	0.00261 mg/L	0.000958	36.67%
Sr 421.552†	-122.6	-0.00018 mg/L	0.000017	-0.00018 mg/L	0.000017	9.10%
Ti 334.903†	22.7	0.00090 mg/L	0.000434	0.00090 mg/L	0.000434	48.01%
Tl 190.801†	5.6	0.00508 mg/L	0.001946	0.00508 mg/L	0.001946	38.31%
V 292.402†	54.8	0.00020 mg/L	0.000091	0.00020 mg/L	0.000091	46.66%
Zn 206.200†	3.8	0.00382 mg/L	0.001286	0.00382 mg/L	0.001286	33.68%

Sequence No.: 17

Sample ID: JT02 B TWC

Analyst: BLW

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 35

Date Collected: 8/28/2006 12:33:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: JT02 B TWC

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: JT02 B TWC

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
SCA 357.253	1795985.0	100.3 %	2.24			2.24%
SCR 361.383	247835.1	117.8 %	2.82			2.39%
Ag 328.068†	-81.9	-0.00027 mg/L	0.000113	-0.00027 mg/L	0.000113	42.32%
Al 308.215†	119.8	0.09315 mg/L	0.000538	0.09315 mg/L	0.000538	0.58%
As 188.979†	13.1	0.01168 mg/L	0.002011	0.01168 mg/L	0.002011	17.21%
B 249.677†	1236.1	0.4367 mg/L	0.01003	0.4367 mg/L	0.01003	2.30%
Ba 233.527†	84.6	0.02724 mg/L	0.001490	0.02724 mg/L	0.001490	5.47%
Be 313.042†	-6.6	-0.00003 mg/L	0.000032	-0.00003 mg/L	0.000032	99.28%
Ca 317.933†	572427.1	25.95 mg/L	0.129	25.95 mg/L	0.129	0.50%
Cd 228.802†	-0.8	-0.00005 mg/L	0.000200	-0.00005 mg/L	0.000200	417.98%
Co 228.616†	91.1	0.00243 mg/L	0.000331	0.00243 mg/L	0.000331	13.59%
Cr 267.716†	43.0	0.00025 mg/L	0.000805	0.00025 mg/L	0.000805	321.28%
Cu 324.752†	1640.6	0.00593 mg/L	0.000458	0.00593 mg/L	0.000458	7.72%
Fe 273.955†	543.1	0.5940 mg/L	0.01292	0.5940 mg/L	0.01292	2.18%
K 766.490†	23461.2	15.11 mg/L	0.071	15.11 mg/L	0.071	0.47%
Mg 279.077†	48769.3	33.42 mg/L	0.242	33.42 mg/L	0.242	0.72%
Mn 257.610†	4300.8	0.1670 mg/L	0.00063	0.1670 mg/L	0.00063	0.38%
Mo 202.031†	83.5	0.00729 mg/L	0.000536	0.00729 mg/L	0.000536	7.35%
Na 589.592†	2429251.4	408.6 mg/L	1.24	408.6 mg/L	1.24	0.30%
Na 330.237†	11577.6	422.6 mg/L	0.90	422.6 mg/L	0.90	0.21%
Ni 231.604†	14.0	0.00733 mg/L	0.004550	0.00733 mg/L	0.004550	62.07%
Pb 220.353†	9.7	0.00105 mg/L	0.000960	0.00105 mg/L	0.000960	91.74%
Sb 206.836†	1.5	0.00126 mg/L	0.003238	0.00126 mg/L	0.003238	256.91%
Se 196.026†	-5.6	-0.00384 mg/L	0.003428	-0.00384 mg/L	0.003428	89.25%
Si 288.158†	9924.8	7.333 mg/L	0.0412	7.333 mg/L	0.0412	0.56%
Sn 189.927†	-24.9	-0.00174 mg/L	0.000288	-0.00174 mg/L	0.000288	16.56%
Sr 421.552†	126510.4	0.1908 mg/L	0.00046	0.1908 mg/L	0.00046	0.24%
Ti 334.903†	160.5	0.00638 mg/L	0.000545	0.00638 mg/L	0.000545	8.53%
Tl 190.801†	0.1	0.00003 mg/L	0.004683	0.00003 mg/L	0.004683	>999.9%
V 292.402†	3787.6	0.01335 mg/L	0.000192	0.01335 mg/L	0.000192	1.44%
Zn 206.200†	19.6	0.02014 mg/L	0.001083	0.02014 mg/L	0.001083	5.38%

Sequence No.: 18
 Sample ID: JT02 C TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 36
 Date Collected: 8/28/2006 12:40:41 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT02 C TWC

Analyte Back Pressure Flow
 All 174.0 kPa 0.50 L/min

DC

Mean Data: JT02 C TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1732351.4	96.73 %		0.066			0.07%
ScR 361.383	216674.6	103.0 %		0.30			0.30%
Ag 328.068†	-157.8	-0.00050 mg/L		0.000066	-0.00050 mg/L	0.000066	13.16%
Al 308.215†	13.7	0.01037 mg/L		0.004349	0.01037 mg/L	0.004349	41.92%
As 188.979†	12.3	0.00804 mg/L		0.000638	0.00804 mg/L	0.000638	7.93%
B 249.677†	637.3	0.2252 mg/L		0.00137	0.2252 mg/L	0.00137	0.61%
Ba 233.527†	95.6	0.03077 mg/L		0.000920	0.03077 mg/L	0.000920	2.99%
Be 313.042†	41.4	0.00005 mg/L		0.000020	0.00005 mg/L	0.000020	37.77%
Ca 317.933†	1721292.5	78.02 mg/L		0.389	78.02 mg/L	0.389	0.50%
Cd 228.802†	-2.3	-0.00010 mg/L		0.000053	-0.00010 mg/L	0.000053	55.35%
Co 228.616†	51.9	0.00137 mg/L		0.000166	0.00137 mg/L	0.000166	12.10%
Cr 267.716†	33.7	-0.00120 mg/L		0.000683	-0.00120 mg/L	0.000683	57.13%
Cu 324.752†	1151.1	0.00408 mg/L		0.000013	0.00408 mg/L	0.000013	0.31%
Fe 273.955†	668.8	0.7314 mg/L		0.00226	0.7314 mg/L	0.00226	0.31%
K 766.490†	27908.8	17.98 mg/L		0.057	17.98 mg/L	0.057	0.31%
Mg 279.077†	51867.9	35.54 mg/L		0.069	35.54 mg/L	0.069	0.20%
Mn 257.610†	2376.4	0.09164 mg/L		0.000596	0.09164 mg/L	0.000596	0.65%
Mo 202.031†	93.9	0.00825 mg/L		0.000379	0.00825 mg/L	0.000379	4.59%
Na 589.592†	985016.5	165.7 mg/L		0.71	165.7 mg/L	0.71	0.43%
Na 330.237†	4670.5	169.9 mg/L		0.73	169.9 mg/L	0.73	0.43%
Ni 231.604†	15.4	0.00808 mg/L		0.003648	0.00808 mg/L	0.003648	45.15%
Pb 220.353†	14.7	0.00155 mg/L		0.000650	0.00155 mg/L	0.000650	41.94%
Sb 206.836†	7.7	0.00678 mg/L		0.004826	0.00678 mg/L	0.004826	71.20%
Se 196.026†	-19.4	-0.01268 mg/L		0.008573	-0.01268 mg/L	0.008573	67.58%
Si 288.158†	8267.3	6.108 mg/L		0.0022	6.108 mg/L	0.0022	0.04%
Sn 189.927†	-66.9	-0.00173 mg/L		0.000955	-0.00173 mg/L	0.000955	55.33%
Sr 421.552†	224636.2	0.3387 mg/L		0.00108	0.3387 mg/L	0.00108	0.32%
Ti 334.903†	88.0	0.00350 mg/L		0.001455	0.00350 mg/L	0.001455	41.64%
Tl 190.801†	-8.2	-0.00737 mg/L		0.003727	-0.00737 mg/L	0.003727	50.56%
V 292.402†	2896.4	0.01021 mg/L		0.000082	0.01021 mg/L	0.000082	0.80%
Zn 206.200†	5.2	0.00621 mg/L		0.001090	0.00621 mg/L	0.001090	17.56%

Sequence No.: 19

Sample ID: JT02 D TWC

Analyst: BLW

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 37

Date Collected: 8/28/2006 12:47:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: JT02 D TWC

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

DEC

Mean Data: JT02 D TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1723646.1	96.24 %		0.613			0.64%
ScR 361.383	213122.0	101.3 %		0.71			0.70%
Ag 328.068†	-62.0	-0.00019 mg/L		0.000130	-0.00019 mg/L	0.000130	66.77%
Al 308.215†	278.7	0.2160 mg/L		0.00487	0.2160 mg/L	0.00487	2.26%
As 188.979†	6.2	0.00567 mg/L		0.002435	0.00567 mg/L	0.002435	42.93%
B 249.677†	814.9	0.2880 mg/L		0.00354	0.2880 mg/L	0.00354	1.23%
Ba 233.527†	55.9	0.01800 mg/L		0.001459	0.01800 mg/L	0.001459	8.11%
Be 313.042†	82.3	0.00008 mg/L		0.000031	0.00008 mg/L	0.000031	36.94%
Ca 317.933†	196293.2	8.898 mg/L		0.0171	8.898 mg/L	0.0171	0.19%
Cd 228.802†	4.3	0.00012 mg/L		0.000193	0.00012 mg/L	0.000193	157.64%
Co 228.616†	72.1	0.00195 mg/L		0.000189	0.00195 mg/L	0.000189	9.68%
Cr 267.716†	27.0	0.00049 mg/L		0.000670	0.00049 mg/L	0.000670	135.54%
Cu 324.752†	1944.4	0.00712 mg/L		0.000416	0.00712 mg/L	0.000416	5.85%
Fe 273.955†	136.4	0.1491 mg/L		0.00263	0.1491 mg/L	0.00263	1.76%
K 766.490†	24110.1	15.53 mg/L		0.050	15.53 mg/L	0.050	0.32%
Mg 279.077†	27507.8	18.85 mg/L		0.087	18.85 mg/L	0.087	0.46%
Mn 257.610†	293.3	0.01107 mg/L		0.000127	0.01107 mg/L	0.000127	1.14%
Mo 202.031†	589.0	0.05659 mg/L		0.000630	0.05659 mg/L	0.000630	1.11%
Na 589.592†	1987814.4	334.3 mg/L		3.50	334.3 mg/L	3.50	1.05%
Na 330.237†	9477.9	346.0 mg/L		0.20	346.0 mg/L	0.20	0.06%
Ni 231.604†	6.6	0.00347 mg/L		0.002164	0.00347 mg/L	0.002164	62.31%
Pb 220.353†	1.4	0.00021 mg/L		0.000650	0.00021 mg/L	0.000650	311.92%
Sb 206.836†	-0.1	-0.00008 mg/L		0.000721	-0.00008 mg/L	0.000721	858.35%
Se 196.026†	-10.2	-0.00663 mg/L		0.001592	-0.00663 mg/L	0.001592	24.02%
Si 288.158†	7068.9	5.223 mg/L		0.0141	5.223 mg/L	0.0141	0.27%
Sn 189.927†	-10.6	-0.00125 mg/L		0.001189	-0.00125 mg/L	0.001189	95.42%
Sr 421.552†	71738.4	0.1082 mg/L		0.00038	0.1082 mg/L	0.00038	0.36%
Ti 334.903†	220.8	0.00874 mg/L		0.000968	0.00874 mg/L	0.000968	11.08%
Tl 190.801†	2.7	0.00255 mg/L		0.002510	0.00255 mg/L	0.002510	98.50%
V 292.402†	9712.7	0.03414 mg/L		0.000429	0.03414 mg/L	0.000429	1.26%
Zn 206.200†	26.5	0.02691 mg/L		0.001216	0.02691 mg/L	0.001216	4.52%

Sequence No.: 20
 Sample ID: JT02 E TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 38
 Date Collected: 8/28/2006 12:54:05 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT02 E TWC

Analyte Back Pressure Flow
 All 174.0 kPa 0.50 L/min

Mean Data: JT02 E TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1747077.5	97.55 %		0.676			0.69%
ScR 361.383	216374.5	102.9 %		1.05			1.02%
Ag 328.068†	-336.2	-0.00050 mg/L		0.000087	-0.00050 mg/L	0.000087	17.37%
Al 308.215†	22.9	0.01751 mg/L		0.004119	0.01751 mg/L	0.004119	23.52%
As 188.979†	11.7	0.00963 mg/L		0.002973	0.00963 mg/L	0.002973	30.87%
B 249.677†	2114.8	0.7472 mg/L		0.00900	0.7472 mg/L	0.00900	1.20%
Ba 233.527†	36.4	0.01019 mg/L		0.000730	0.01019 mg/L	0.000730	7.16%
Be 313.042†	35.2	0.00004 mg/L		0.000033	0.00004 mg/L	0.000033	79.62%
Ca 317.933†	834957.9	37.85 mg/L		0.157	37.85 mg/L	0.157	0.42%
Cd 228.802†	-5.7	-0.00040 mg/L		0.000053	-0.00040 mg/L	0.000053	13.22%
Co 228.616†	44.6	0.00070 mg/L		0.000057	0.00070 mg/L	0.000057	8.12%
Cr 267.716†	78.3	0.00144 mg/L		0.001007	0.00144 mg/L	0.001007	69.73%
Cu 324.752†	104.8	0.00187 mg/L		0.000235	0.00187 mg/L	0.000235	12.57%
Fe 273.955†	19353.7	21.17 mg/L		0.179	21.17 mg/L	0.179	0.85%
K 766.490†	48654.3	31.34 mg/L		0.167	31.34 mg/L	0.167	0.53%
Mg 279.077†	88378.8	60.55 mg/L		0.496	60.55 mg/L	0.496	0.82%
Mn 257.610†	44709.5	1.742 mg/L		0.0170	1.742 mg/L	0.0170	0.98%
Mo 202.031†	79.5	0.00626 mg/L		0.000300	0.00626 mg/L	0.000300	4.79%
Na 589.592†	1039503.2	174.8 mg/L		1.19	174.8 mg/L	1.19	0.68%
Na 330.237†	4912.5	179.1 mg/L		1.62	179.1 mg/L	1.62	0.90%
Ni 231.604†	11.6	0.00606 mg/L		0.001471	0.00606 mg/L	0.001471	24.28%
Pb 220.353†	10.1	0.00108 mg/L		0.000453	0.00108 mg/L	0.000453	41.98%
Sb 206.836†	4.0	0.00344 mg/L		0.003670	0.00344 mg/L	0.003670	106.77%
Se 196.026†	-22.8	-0.01678 mg/L		0.003209	-0.01678 mg/L	0.003209	19.13%
Si 288.158†	10818.2	7.993 mg/L		0.0595	7.993 mg/L	0.0595	0.74%
Sn 189.927†	-43.5	-0.00443 mg/L		0.001175	-0.00443 mg/L	0.001175	26.56%
Sr 421.552†	202729.7	0.3057 mg/L		0.00180	0.3057 mg/L	0.00180	0.59%
Ti 334.903†	185.4	0.00738 mg/L		0.000871	0.00738 mg/L	0.000871	11.82%
Tl 190.801†	0.1	0.00005 mg/L		0.000745	0.00005 mg/L	0.000745	>999.9%
V 292.402†	3333.1	0.01203 mg/L		0.000173	0.01203 mg/L	0.000173	1.44%
Zn 206.200†	7.2	0.00720 mg/L		0.002039	0.00720 mg/L	0.002039	28.32%

Sequence No.: 21

Autosampler Location: 39

Sample ID: JT02 F TWC

Date Collected: 8/28/2006 1:00:48 PM

Analyst: BLW

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution: 1X

Sample Prep Vol:

Nebulizer Parameters: JT02 F TWC

Analyte

Back Pressure

Flow

All

174.0 kPa

0.50 L/min

DL

Mean Data: JT02 F TWC

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1838476.5	102.7 %	0.80			0.78%
ScR 361.383	231200.3	109.9 %	0.92			0.83%
Ag 328.068†	-51.7	-0.00042 mg/L	0.000263	-0.00042 mg/L	0.000263	62.36%
Al 308.215†	25.1	0.01921 mg/L	0.006676	0.01921 mg/L	0.006676	34.76%
As 188.979†	36.4	0.03393 mg/L	0.002988	0.03393 mg/L	0.002988	8.81%
B 249.677†	592.3	0.2093 mg/L	0.00094	0.2093 mg/L	0.00094	0.45%
Ba 233.527†	91.9	0.02825 mg/L	0.001403	0.02825 mg/L	0.001403	4.97%
Be 313.042†	11.4	0.00001 mg/L	0.000017	0.00001 mg/L	0.000017	190.46%
Ca 317.933†	1087499.0	49.29 mg/L	0.081	49.29 mg/L	0.081	0.16%
Cd 228.802†	-13.4	-0.00065 mg/L	0.000085	-0.00065 mg/L	0.000085	13.04%
Co 228.616†	251.8	0.00635 mg/L	0.000169	0.00635 mg/L	0.000169	2.66%
Cr 267.716†	95.2	-0.00415 mg/L	0.000725	-0.00415 mg/L	0.000725	17.49%
Cu 324.752†	179.8	0.00167 mg/L	0.000223	0.00167 mg/L	0.000223	13.36%
Fe 273.955†	17465.2	19.10 mg/L	0.282	19.10 mg/L	0.282	1.47%
K 766.490†	21513.9	13.86 mg/L	0.161	13.86 mg/L	0.161	1.16%
Mg 279.077†	137380.3	94.13 mg/L	0.191	94.13 mg/L	0.191	0.20%
Mn 257.610†	165545.6	6.454 mg/L	0.0242	6.454 mg/L	0.0242	0.37%
Mo 202.031†	144.0	0.01171 mg/L	0.000668	0.01171 mg/L	0.000668	5.70%
Na 589.592†	616490.0	103.7 mg/L	0.41	103.7 mg/L	0.41	0.39%
Na 330.237†	2904.8	105.6 mg/L	1.43	105.6 mg/L	1.43	1.36%
Ni 231.604†	27.3	0.01430 mg/L	0.000882	0.01430 mg/L	0.000882	6.17%
Pb 220.353†	17.5	0.00187 mg/L	0.000236	0.00187 mg/L	0.000236	12.61%
Sb 206.836†	3.0	0.00239 mg/L	0.000570	0.00239 mg/L	0.000570	23.85%
Se 196.026†	-25.6	-0.02392 mg/L	0.006965	-0.02392 mg/L	0.006965	29.12%
Si 288.158†	11579.1	8.555 mg/L	0.1024	8.555 mg/L	0.1024	1.20%
Sn 189.927†	-46.0	-0.00387 mg/L	0.001147	-0.00387 mg/L	0.001147	29.64%
Sr 421.552†	251874.1	0.3798 mg/L	0.00121	0.3798 mg/L	0.00121	0.32%
Ti 334.903†	69.9	0.00277 mg/L	0.000868	0.00277 mg/L	0.000868	31.36%
Tl 190.801†	-7.2	-0.00650 mg/L	0.002131	-0.00650 mg/L	0.002131	32.80%
V 292.402†	1843.7	0.00753 mg/L	0.000220	0.00753 mg/L	0.000220	2.92%
Zn 206.200†	14.2	0.01453 mg/L	0.002651	0.01453 mg/L	0.002651	18.24%

Sequence No.: 22

Sample ID: JT02 MB1SPK TWC

Analyst: BLW

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 40

Date Collected: 8/28/2006 1:07:32 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: JT02 MB1SPK TWC

Analyte

Back Pressure

Flow

All 174.0 kPa

0.50 L/min

Mean Data: JT02 MB1SPK TWC

Analyte	Mean Corrected			Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units	Calib		Conc. Units			
ScA 357.253	1884489.9	105.2 %		0.66				0.63%
ScR 361.383	228129.1	108.4 %		0.48				0.44%
Ag 328.068†	153611.1	0.5032 mg/L		0.00327	0.5032 mg/L	0.00327		0.65%
Al 308.215†	2646.8	2.059 mg/L		0.0083	2.059 mg/L	0.0083		0.41%
As 188.979†	2066.1	2.082 mg/L		0.0134	2.082 mg/L	0.0134		0.64%
B 249.677†	7.7	0.00365 mg/L		0.000580	0.00365 mg/L	0.000580		15.91%
Ba 233.527†	6092.6	1.964 mg/L		0.0039	1.964 mg/L	0.0039		0.20%
Be 313.042†	315674.4	0.5294 mg/L		0.00346	0.5294 mg/L	0.00346		0.65%
Ca 317.933†	231179.3	10.48 mg/L		0.078	10.48 mg/L	0.078		0.74%
Cd 228.802†	16953.8	0.5175 mg/L		0.00372	0.5175 mg/L	0.00372		0.72%
Co 228.616†	18638.2	0.5032 mg/L		0.00218	0.5032 mg/L	0.00218		0.43%
Cr 267.716†	4020.0	0.5027 mg/L		0.00074	0.5027 mg/L	0.00074		0.15%
Cu 324.752†	134687.1	0.5064 mg/L		0.00377	0.5064 mg/L	0.00377		0.74%
Fe 273.955†	1971.4	2.155 mg/L		0.0068	2.155 mg/L	0.0068		0.32%
K 766.490†	16306.1	10.50 mg/L		0.092	10.50 mg/L	0.092		0.88%
Mg 279.077†	15762.0	10.80 mg/L		0.048	10.80 mg/L	0.048		0.44%
Mn 257.610†	12923.8	0.5043 mg/L		0.00442	0.5043 mg/L	0.00442		0.88%
Mo 202.031†	20.5	0.00178 mg/L		0.000021	0.00178 mg/L	0.000021		1.16%
Na 589.592†	63542.0	10.69 mg/L		0.075	10.69 mg/L	0.075		0.70%
Na 330.237†	304.2	10.88 mg/L		0.242	10.88 mg/L	0.242		2.22%
Ni 231.604†	980.5	0.5147 mg/L		0.00085	0.5147 mg/L	0.00085		0.17%
Pb 220.353†	19740.0	2.071 mg/L		0.0176	2.071 mg/L	0.0176		0.85%
Sb 206.836†	2367.3	2.134 mg/L		0.0193	2.134 mg/L	0.0193		0.90%
Se 196.026†	3267.1	2.120 mg/L		0.0177	2.120 mg/L	0.0177		0.83%
Si 288.158†	16.1	0.01298 mg/L		0.006173	0.01298 mg/L	0.006173		47.57%
Sn 189.927†	-26.7	-0.00024 mg/L		0.001104	-0.00024 mg/L	0.001104		454.02%
Sr 421.552†	337094.6	0.5083 mg/L		0.00282	0.5083 mg/L	0.00282		0.56%
Ti 334.903†	14.0	0.00045 mg/L		0.000914	0.00045 mg/L	0.000914		202.94%
Tl 190.801†	2255.2	2.035 mg/L		0.0204	2.035 mg/L	0.0204		1.00%
V 292.402†	147707.6	0.5218 mg/L		0.00325	0.5218 mg/L	0.00325		0.62%
Zn 206.200†	515.9	0.5222 mg/L		0.00228	0.5222 mg/L	0.00228		0.44%

Sequence No.: 23

Sample ID: CV 3

Analyst: BLW

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 7

Date Collected: 8/28/2006 1:13:57 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1940221.8	108.3 %	0.31			0.29%
ScR 361.383	239457.9	113.8 %	0.84			0.74%
Ag 328.068†	304661.3	0.9979 mg/L	0.00063	0.9979 mg/L	0.00063	0.06%
Al 308.215†	2565.2	1.966 mg/L	0.0130	1.966 mg/L	0.0130	0.66%
As 188.979†	2060.2	2.072 mg/L	0.0135	2.072 mg/L	0.0135	0.65%
B 249.677†	2811.6	0.9968 mg/L	0.01194	0.9968 mg/L	0.01194	1.20%
Ba 233.527†	3043.6	0.9808 mg/L	0.00823	0.9808 mg/L	0.00823	0.84%
Be 313.042†	608004.0	1.020 mg/L	0.0037	1.020 mg/L	0.0037	0.37%
Ca 317.933†	46308.2	2.099 mg/L	0.0083	2.099 mg/L	0.0083	0.39%
Cd 228.802†	33588.3	1.028 mg/L	0.0010	1.028 mg/L	0.0010	0.10%
Co 228.616†	36929.2	0.9964 mg/L	0.00195	0.9964 mg/L	0.00195	0.20%
Cr 267.716†	7746.8	0.9712 mg/L	0.00636	0.9712 mg/L	0.00636	0.66%
Cu 324.752†	276068.6	1.037 mg/L	0.0005	1.037 mg/L	0.0005	0.05%
Fe 273.955†	1921.4	2.099 mg/L	0.0129	2.099 mg/L	0.0129	0.61%
K 766.490†	30524.0	19.66 mg/L	0.055	19.66 mg/L	0.055	0.28%
Mg 279.077†	3055.2	2.097 mg/L	0.0255	2.097 mg/L	0.0255	1.22%
Mn 257.610†	24505.4	0.9561 mg/L	0.00813	0.9561 mg/L	0.00813	0.85%
Mo 202.031†	10513.3	1.018 mg/L	0.0099	1.018 mg/L	0.0099	0.97%
Na 589.592†	296723.2	49.91 mg/L	0.070	49.91 mg/L	0.070	0.14%
Na 330.237†	1373.7	50.14 mg/L	0.284	50.14 mg/L	0.284	0.57%
Ni 231.604†	1960.8	1.028 mg/L	0.0141	1.028 mg/L	0.0141	1.37%
Pb 220.353†	19559.2	2.053 mg/L	0.0215	2.053 mg/L	0.0215	1.05%
Sb 206.836†	2446.7	2.213 mg/L	0.0224	2.213 mg/L	0.0224	1.01%
Se 196.026†	3236.6	2.100 mg/L	0.0228	2.100 mg/L	0.0228	1.09%
Si 288.158†	2769.6	2.048 mg/L	0.0147	2.048 mg/L	0.0147	0.72%
Sn 189.927†	4550.4	0.9997 mg/L	0.00981	0.9997 mg/L	0.00981	0.98%
Sr 421.552†	652105.9	0.9833 mg/L	0.00144	0.9833 mg/L	0.00144	0.15%
Ti 334.903†	25668.1	1.021 mg/L	0.0014	1.021 mg/L	0.0014	0.13%
Tl 190.801†	2228.3	2.010 mg/L	0.0200	2.010 mg/L	0.0200	0.99%
V 292.402†	286933.5	1.014 mg/L	0.0005	1.014 mg/L	0.0005	0.05%
Zn 206.200†	1043.0	1.055 mg/L	0.0083	1.055 mg/L	0.0083	0.79%

Sequence No.: 24

Sample ID: CB 3

Analyst: BLW

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 1

Date Collected: 8/28/2006 1:20:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1987247.0		111.0 %	0.70				0.63%
ScR 361.383	239607.6		113.9 %	0.95				0.83%
Ag 328.068†	-15.4	-0.00005	mg/L	0.000142	-0.00005	mg/L	0.000142	284.62%
Al 308.215†	2.1	0.00163	mg/L	0.012215	0.00163	mg/L	0.012215	750.31%
As 188.979†	2.3	0.00231	mg/L	0.003044	0.00231	mg/L	0.003044	131.88%
B 249.677†	17.1	0.00606	mg/L	0.001221	0.00606	mg/L	0.001221	20.15%
Ba 233.527†	-1.0	-0.00032	mg/L	0.001944	-0.00032	mg/L	0.001944	612.77%
Be 313.042†	-47.4	-0.00008	mg/L	0.000033	-0.00008	mg/L	0.000033	40.81%
Ca 317.933†	-28.1	-0.00127	mg/L	0.002578	-0.00127	mg/L	0.002578	202.37%
Cd 228.802†	-2.6	-0.00008	mg/L	0.000085	-0.00008	mg/L	0.000085	101.76%
Co 228.616†	8.1	0.00022	mg/L	0.000322	0.00022	mg/L	0.000322	148.37%
Cr 267.716†	4.9	0.00061	mg/L	0.000148	0.00061	mg/L	0.000148	24.15%
Cu 324.752†	130.0	0.00049	mg/L	0.000114	0.00049	mg/L	0.000114	23.35%
Fe 273.955†	8.5	0.00931	mg/L	0.001654	0.00931	mg/L	0.001654	17.76%
K 766.490†	-25.1	-0.01616	mg/L	0.043829	-0.01616	mg/L	0.043829	271.28%
Mg 279.077†	-2.9	-0.00201	mg/L	0.010191	-0.00201	mg/L	0.010191	506.58%
Mn 257.610†	2.4	0.00010	mg/L	0.000150	0.00010	mg/L	0.000150	157.03%
Mo 202.031†	8.0	0.00077	mg/L	0.000209	0.00077	mg/L	0.000209	26.94%
Na 589.592†	352.7	0.05932	mg/L	0.006303	0.05932	mg/L	0.006303	10.63%
Na 330.237†	19.8	0.7217	mg/L	0.07613	0.7217	mg/L	0.07613	10.55%
Ni 231.604†	-2.8	-0.00146	mg/L	0.001642	-0.00146	mg/L	0.001642	112.34%
Pb 220.353†	9.0	0.00094	mg/L	0.000362	0.00094	mg/L	0.000362	38.36%
Sb 206.836†	-0.9	-0.00081	mg/L	0.001107	-0.00081	mg/L	0.001107	137.37%
Se 196.026†	9.0	0.00586	mg/L	0.000892	0.00586	mg/L	0.000892	15.23%
Si 288.158†	16.6	0.01230	mg/L	0.010372	0.01230	mg/L	0.010372	84.30%
Sn 189.927†	13.6	0.00297	mg/L	0.000954	0.00297	mg/L	0.000954	32.09%
Sr 421.552†	-86.5	-0.00013	mg/L	0.000040	-0.00013	mg/L	0.000040	30.64%
Ti 334.903†	15.6	0.00062	mg/L	0.000330	0.00062	mg/L	0.000330	53.22%
Tl 190.801†	6.7	0.00609	mg/L	0.000856	0.00609	mg/L	0.000856	14.05%
V 292.402†	38.6	0.00014	mg/L	0.000221	0.00014	mg/L	0.000221	157.75%
Zn 206.200†	2.9	0.00294	mg/L	0.003427	0.00294	mg/L	0.003427	116.46%

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Analysis Begun

Start Time: 8/28/2006 1:38:58 PM

Plasma On Time: 8/28/2006 8:33:10 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0828C.sif

Batch ID:

Results Data Set: PE060828

Results Library: C:\pe\Administrator\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 7

Sample ID: CV

Date Collected: 8/28/2006 1:38:58 PM

Analyst: BLW

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution: 1X

Sample Prep Vol:

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Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

=====
Mean Data: CV

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
ScA 357.253	1983735.4	110.8 %		0.65			0.59%
ScR 361.383	238859.9	113.5 %		0.19			0.17%
Ag 328.068†	304016.5	0.9957 mg/L		0.00158	0.9957 mg/L	0.00158	0.16%
Al 308.215†	2605.7	1.998 mg/L		0.0294	1.998 mg/L	0.0294	1.47%
As 188.979†	2044.7	2.057 mg/L		0.0086	2.057 mg/L	0.0086	0.42%
B 249.677†	2845.5	1.009 mg/L		0.0147	1.009 mg/L	0.0147	1.45%
Ba 233.527†	3070.4	0.9895 mg/L		0.01223	0.9895 mg/L	0.01223	1.24%
Be 313.042†	603196.0	1.011 mg/L		0.0018	1.011 mg/L	0.0018	0.18%
Ca 317.933†	45910.1	2.081 mg/L		0.0026	2.081 mg/L	0.0026	0.13%
Cd 228.802†	33482.0	1.025 mg/L		0.0048	1.025 mg/L	0.0048	0.47%
Co 228.616†	36894.9	0.9955 mg/L		0.00573	0.9955 mg/L	0.00573	0.58%
Cr 267.716†	7819.9	0.9803 mg/L		0.01102	0.9803 mg/L	0.01102	1.12%
Cu 324.752†	275305.5	1.034 mg/L		0.0011	1.034 mg/L	0.0011	0.11%
Fe 273.955†	1931.4	2.110 mg/L		0.0194	2.110 mg/L	0.0194	0.92%
K 766.490†	30436.4	19.60 mg/L		0.072	19.60 mg/L	0.072	0.37%
Mg 279.077†	3078.2	2.113 mg/L		0.0332	2.113 mg/L	0.0332	1.57%
Mn 257.610†	24765.3	0.9663 mg/L		0.01071	0.9663 mg/L	0.01071	1.11%
Mo 202.031†	10406.9	0.9903 mg/L		0.00487	0.9903 mg/L	0.00487	0.49%
Na 589.592†	297166.4	49.98 mg/L		0.054	49.98 mg/L	0.054	0.11%
Na 330.237†	1385.4	50.56 mg/L		0.401	50.56 mg/L	0.401	0.79%
Ni 231.604†	1978.2	1.037 mg/L		0.0104	1.037 mg/L	0.0104	1.01%
Pb 220.353†	19305.2	2.026 mg/L		0.0103	2.026 mg/L	0.0103	0.51%
Sb 206.836†	2417.7	2.117 mg/L		0.0053	2.117 mg/L	0.0053	0.25%
Se 196.026†	3213.4	2.085 mg/L		0.0041	2.085 mg/L	0.0041	0.20%
Si 288.158†	2803.3	2.020 mg/L		0.0269	2.020 mg/L	0.0269	1.33%
Sn 189.927†	4509.2	0.9565 mg/L		0.00261	0.9565 mg/L	0.00261	0.27%
Sr 421.552†	650086.3	0.9803 mg/L		0.00148	0.9803 mg/L	0.00148	0.15%
Ti 334.903†	25517.1	1.001 mg/L		0.0019	1.001 mg/L	0.0019	0.19%
Tl 190.801†	2221.6	2.004 mg/L		0.0070	2.004 mg/L	0.0070	0.35%
V 292.402†	286294.9	1.012 mg/L		0.0027	1.012 mg/L	0.0027	0.27%
Zn 206.200†	1052.0	1.064 mg/L		0.0114	1.064 mg/L	0.0114	1.07%

Sequence No.: 2

Sample ID: CB

Analyst: BLW

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 1

Date Collected: 8/28/2006 1:45:09 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2056807.7	114.8 %		1.25			1.08%
ScR 361.383	248070.1	117.9 %		0.95			0.81%
Ag 328.068†	60.0	0.00020 mg/L		0.000061	0.00020 mg/L	0.000061	31.18%
Al 308.215†	20.1	0.01567 mg/L		0.001309	0.01567 mg/L	0.001309	8.35%
As 188.979†	3.5	0.00356 mg/L		0.005029	0.00356 mg/L	0.005029	141.40%
B 249.677†	12.6	0.00445 mg/L		0.002150	0.00445 mg/L	0.002150	48.37%
Ba 233.527†	-2.3	-0.00076 mg/L		0.000292	-0.00076 mg/L	0.000292	38.50%
Be 313.042†	-56.2	-0.00009 mg/L		0.000026	-0.00009 mg/L	0.000026	27.01%
Ca 317.933†	-33.7	-0.00153 mg/L		0.001555	-0.00153 mg/L	0.001555	101.90%
Cd 228.802†	-0.9	-0.00003 mg/L		0.000054	-0.00003 mg/L	0.000054	169.02%
Co 228.616†	11.1	0.00030 mg/L		0.000122	0.00030 mg/L	0.000122	40.74%
Cr 267.716†	-0.6	-0.00008 mg/L		0.000254	-0.00008 mg/L	0.000254	323.05%
Cu 324.752†	68.4	0.00026 mg/L		0.000099	0.00026 mg/L	0.000099	38.63%
Fe 273.955†	8.6	0.00939 mg/L		0.001710	0.00939 mg/L	0.001710	18.22%
K 766.490†	-113.9	-0.07333 mg/L		0.005076	-0.07333 mg/L	0.005076	6.92%
Mg 279.077†	-6.3	-0.00435 mg/L		0.003713	-0.00435 mg/L	0.003713	85.40%
Mn 257.610†	3.7	0.00015 mg/L		0.000087	0.00015 mg/L	0.000087	59.44%
Mo 202.031†	9.8	0.00093 mg/L		0.000044	0.00093 mg/L	0.000044	4.70%
Na 589.592†	145.3	0.02444 mg/L		0.000859	0.02444 mg/L	0.000859	3.51%
Na 330.237†	20.3	0.7419 mg/L		0.18051	0.7419 mg/L	0.18051	24.33%
Ni 231.604†	2.4	0.00125 mg/L		0.001396	0.00125 mg/L	0.001396	111.92%
Pb 220.353†	-1.8	-0.00018 mg/L		0.000659	-0.00018 mg/L	0.000659	360.71%
Sb 206.836†	-1.1	-0.00097 mg/L		0.001634	-0.00097 mg/L	0.001634	167.83%
Se 196.026†	5.7	0.00370 mg/L		0.004192	0.00370 mg/L	0.004192	113.33%
Si 288.158†	17.4	0.01250 mg/L		0.007994	0.01250 mg/L	0.007994	63.95%
Sn 189.927†	10.0	0.00211 mg/L		0.000637	0.00211 mg/L	0.000637	30.24%
Sr 421.552†	-112.1	-0.00017 mg/L		0.000122	-0.00017 mg/L	0.000122	72.31%
Ti 334.903†	7.3	0.00029 mg/L		0.000622	0.00029 mg/L	0.000622	217.70%
Tl 190.801†	7.8	0.00704 mg/L		0.002312	0.00704 mg/L	0.002312	32.82%
V 292.402†	30.9	0.00011 mg/L		0.000047	0.00011 mg/L	0.000047	43.04%
Zn 206.200†	1.1	0.00112 mg/L		0.000593	0.00112 mg/L	0.000593	53.08%

Sequence No.: 3

Sample ID: JS74 MB1 SWC

Analyst: BLW

Initial Sample Wt:

Dilution: 2X

Autosampler Location: 41

Date Collected: 8/28/2006 1:51:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: JS74 MB1 SWC

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: JS74 MB1 SWC

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2105158.8	117.5 %	0.50			0.43%
ScR 361.383	256943.5	122.1 %	0.34			0.28%
Ag 328.068†	5.6	0.00002 mg/L	0.000047	0.00004 mg/L	0.000094	252.31%
Al 308.215†	301.6	0.2355 mg/L	0.00439	0.4710 mg/L	0.00878	1.86%
As 188.979†	3.7	0.00368 mg/L	0.006121	0.00735 mg/L	0.012242	166.44%
B 249.677†	16.4	0.00578 mg/L	0.000993	0.01157 mg/L	0.001985	17.16%
Ba 233.527†	-6.4	-0.00207 mg/L	0.001754	-0.00413 mg/L	0.003508	84.92%
Be 313.042†	-99.5	-0.00017 mg/L	0.000027	-0.00033 mg/L	0.000054	16.01%
Ca 317.933†	6382.5	0.2893 mg/L	0.00122	0.5786 mg/L	0.00243	0.42%
Cd 228.802†	-1.1	-0.00004 mg/L	0.000192	-0.00008 mg/L	0.000384	493.39%
Co 228.616†	12.1	0.00032 mg/L	0.000216	0.00064 mg/L	0.000433	68.05%
Cr 267.716†	-4.6	-0.00058 mg/L	0.000293	-0.00117 mg/L	0.000586	50.11%
Cu 324.752†	-14.0	-0.00005 mg/L	0.000138	-0.00011 mg/L	0.000275	252.80%
Fe 273.955†	9.9	0.01079 mg/L	0.003359	0.02157 mg/L	0.006717	31.14%
K 766.490†	-261.9	-0.1687 mg/L	0.02463	-0.3373 mg/L	0.04925	14.60%
Mg 279.077†	90.2	0.06179 mg/L	0.001021	0.1236 mg/L	0.00204	1.65%
Mn 257.610†	10.6	0.00041 mg/L	0.000151	0.00082 mg/L	0.000302	36.74%
Mo 202.031†	4.8	0.00046 mg/L	0.000074	0.00092 mg/L	0.000149	16.17%
Na 589.592†	102.8	0.01729 mg/L	0.002658	0.03459 mg/L	0.005316	15.37%
Na 330.237†	7.3	0.2537 mg/L	0.27399	0.5074 mg/L	0.54798	107.99%
Ni 231.604†	0.8	0.00044 mg/L	0.000702	0.00088 mg/L	0.001405	158.95%
Pb 220.353†	-9.9	-0.00100 mg/L	0.000677	-0.00200 mg/L	0.001354	67.83%
Sb 206.836†	0.7	0.00068 mg/L	0.002007	0.00135 mg/L	0.004015	296.86%
Se 196.026†	14.5	0.00941 mg/L	0.003190	0.01881 mg/L	0.006380	33.92%
Si 288.158†	30.1	0.02166 mg/L	0.004835	0.04332 mg/L	0.009669	22.32%
Sn 189.927†	10.3	0.00223 mg/L	0.000395	0.00447 mg/L	0.000789	17.68%
Sr 421.552†	7.9	0.00001 mg/L	0.000089	0.00002 mg/L	0.000178	747.49%
Ti 334.903†	218.2	0.00857 mg/L	0.000357	0.01714 mg/L	0.000714	4.16%
Tl 190.801†	1.6	0.00143 mg/L	0.002978	0.00286 mg/L	0.005957	208.26%
V 292.402†	52.8	0.00018 mg/L	0.000120	0.00036 mg/L	0.000239	67.27%
Zn 206.200†	54.2	0.05491 mg/L	0.000547	0.1098 mg/L	0.00109	1.00%

Sequence No.: 4

Autosampler Location: 42

Sample ID: JT20 MB1 TWC

Date Collected: 8/28/2006 1:57:56 PM

Analyst: BLW

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution: 1X

Sample Prep Vol:

Nebulizer Parameters: JT20 MB1 TWC

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: JT20 MB1 TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2083053.3	116.3 %		0.46			0.39%
ScR 361.383	255603.9	121.5 %		0.32			0.26%
Ag 328.068†	-50.2	-0.00016 mg/L		0.000080	-0.00016 mg/L	0.000080	48.71%
Al 308.215†	21.8	0.01698 mg/L		0.015238	0.01698 mg/L	0.015238	89.74%
As 188.979†	0.1	0.00005 mg/L		0.002868	0.00005 mg/L	0.002868	>999.9%
B 249.677†	5.2	0.00185 mg/L		0.002416	0.00185 mg/L	0.002416	130.55%
Ba 233.527†	-5.4	-0.00173 mg/L		0.000929	-0.00173 mg/L	0.000929	53.66%
Be 313.042†	-82.7	-0.00014 mg/L		0.000013	-0.00014 mg/L	0.000013	9.50%
Ca 317.933†	220.5	0.01000 mg/L		0.000844	0.01000 mg/L	0.000844	8.44%
Cd 228.802†	-2.1	-0.00007 mg/L		0.000059	-0.00007 mg/L	0.000059	89.06%
Co 228.616†	8.0	0.00021 mg/L		0.000029	0.00021 mg/L	0.000029	13.72%
Cr 267.716†	4.1	0.00052 mg/L		0.000896	0.00052 mg/L	0.000896	172.08%
Cu 324.752†	-81.2	-0.00030 mg/L		0.000099	-0.00030 mg/L	0.000099	32.36%
Fe 273.955†	8.7	0.00953 mg/L		0.001425	0.00953 mg/L	0.001425	14.95%
K 766.490†	-231.8	-0.1493 mg/L		0.01963	-0.1493 mg/L	0.01963	13.15%
Mg 279.077†	-10.0	-0.00686 mg/L		0.009515	-0.00686 mg/L	0.009515	138.64%
Mn 257.610†	2.2	0.00008 mg/L		0.000264	0.00008 mg/L	0.000264	311.78%
Mo 202.031†	4.9	0.00046 mg/L		0.000214	0.00046 mg/L	0.000214	46.06%
Na 589.592†	75.2	0.01265 mg/L		0.003646	0.01265 mg/L	0.003646	28.82%
Na 330.237†	11.9	0.4318 mg/L		0.64592	0.4318 mg/L	0.64592	149.57%
Ni 231.604†	-1.1	-0.00059 mg/L		0.002275	-0.00059 mg/L	0.002275	382.48%
Pb 220.353†	-10.2	-0.00106 mg/L		0.000640	-0.00106 mg/L	0.000640	60.16%
Sb 206.836†	-0.0	-0.00002 mg/L		0.000768	-0.00002 mg/L	0.000768	>999.9%
Se 196.026†	10.6	0.00688 mg/L		0.005610	0.00688 mg/L	0.005610	81.50%
Si 288.158†	18.8	0.01356 mg/L		0.001649	0.01356 mg/L	0.001649	12.16%
Sn 189.927†	13.9	0.00294 mg/L		0.001128	0.00294 mg/L	0.001128	38.38%
Sr 421.552†	-68.4	-0.00010 mg/L		0.000049	-0.00010 mg/L	0.000049	47.28%
Ti 334.903†	13.4	0.00053 mg/L		0.000695	0.00053 mg/L	0.000695	132.20%
Tl 190.801†	2.5	0.00227 mg/L		0.001427	0.00227 mg/L	0.001427	62.84%
V 292.402†	36.9	0.00013 mg/L		0.000158	0.00013 mg/L	0.000158	118.38%
Zn 206.200†	5.3	0.00534 mg/L		0.001152	0.00534 mg/L	0.001152	21.56%

Sequence No.: 5

Autosampler Location: 43

Sample ID: JT02 MB1 TWC

Date Collected: 8/28/2006 2:04:20 PM

Analyst: BLW

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution: 1X

Sample Prep Vol:

Nebulizer Parameters: JT02 MB1 TWC

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: JT02 MB1 TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2061738.7	115.1 %		0.81			0.70%
ScR 361.383	249946.3	118.8 %		0.97			0.82%
Ag 328.068†	-5.5	-0.00002 mg/L		0.000071	-0.00002 mg/L	0.000071	404.52%
Al 308.215†	20.8	0.01624 mg/L		0.006247	0.01624 mg/L	0.006247	38.47%
As 188.979†	4.6	0.00463 mg/L		0.003733	0.00463 mg/L	0.003733	80.59%
B 249.677†	2.2	0.00079 mg/L		0.002179	0.00079 mg/L	0.002179	275.98%
Ba 233.527†	-3.8	-0.00122 mg/L		0.001327	-0.00122 mg/L	0.001327	108.81%
Be 313.042†	-88.6	-0.00015 mg/L		0.000008	-0.00015 mg/L	0.000008	5.29%
Ca 317.933†	215.8	0.00978 mg/L		0.000437	0.00978 mg/L	0.000437	4.47%
Cd 228.802†	-3.6	-0.00012 mg/L		0.000119	-0.00012 mg/L	0.000119	100.81%
Co 228.616†	5.0	0.00013 mg/L		0.000224	0.00013 mg/L	0.000224	166.67%
Cr 267.716†	2.6	0.00032 mg/L		0.000746	0.00032 mg/L	0.000746	230.94%
Cu 324.752†	-52.7	-0.00020 mg/L		0.000194	-0.00020 mg/L	0.000194	98.37%
Fe 273.955†	9.5	0.01043 mg/L		0.001275	0.01043 mg/L	0.001275	12.22%
K 766.490†	-208.5	-0.1343 mg/L		0.02654	-0.1343 mg/L	0.02654	19.76%
Mg 279.077†	-6.2	-0.00424 mg/L		0.004587	-0.00424 mg/L	0.004587	108.10%
Mn 257.610†	5.3	0.00021 mg/L		0.000069	0.00021 mg/L	0.000069	33.22%
Mo 202.031†	4.3	0.00041 mg/L		0.000120	0.00041 mg/L	0.000120	29.29%
Na 589.592†	26.5	0.00445 mg/L		0.003298	0.00445 mg/L	0.003298	74.08%
Na 330.237†	1.0	0.03470 mg/L		0.283885	0.03470 mg/L	0.283885	818.17%
Ni 231.604†	0.6	0.00034 mg/L		0.001669	0.00034 mg/L	0.001669	493.84%
Pb 220.353†	-6.5	-0.00067 mg/L		0.000657	-0.00067 mg/L	0.000657	97.45%
Sb 206.836†	0.9	0.00084 mg/L		0.000781	0.00084 mg/L	0.000781	93.30%
Se 196.026†	6.1	0.00397 mg/L		0.000162	0.00397 mg/L	0.000162	4.08%
Si 288.158†	22.2	0.01598 mg/L		0.001723	0.01598 mg/L	0.001723	10.78%
Sn 189.927†	6.6	0.00139 mg/L		0.001496	0.00139 mg/L	0.001496	107.59%
Sr 421.552†	-130.5	-0.00020 mg/L		0.000008	-0.00020 mg/L	0.000008	3.97%
Ti 334.903†	26.4	0.00104 mg/L		0.000295	0.00104 mg/L	0.000295	28.43%
Tl 190.801†	1.5	0.00131 mg/L		0.001517	0.00131 mg/L	0.001517	115.37%
W 292.402†	-10.1	-0.00003 mg/L		0.000085	-0.00003 mg/L	0.000085	256.40%
Zn 206.200†	6.9	0.00699 mg/L		0.000892	0.00699 mg/L	0.000892	12.75%

Sequence No.: 6

Sample ID: JT02 B TWC

Analyst: BLW

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 44

Date Collected: 8/28/2006 2:10:44 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: JT02 B TWC

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

rem

Mean Data: JT02 B TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1815613.7	101.4 %		8.04			7.93%
ScR 361.383	240481.5	114.3 %		5.15			4.50%
Ag 328.068†	-49.4	-0.00016 mg/L		0.000085	-0.00016 mg/L	0.000085	52.67%
Al 308.215†	124.5	0.09685 mg/L		0.004694	0.09685 mg/L	0.004694	4.85%
As 188.979†	15.7	0.01435 mg/L		0.002780	0.01435 mg/L	0.002780	19.37%
B 249.677†	1185.3	0.4188 mg/L		0.01168	0.4188 mg/L	0.01168	2.79%
Ba 233.527†	79.7	0.02567 mg/L		0.000795	0.02567 mg/L	0.000795	3.10%
Be 313.042†	4.7	-0.00001 mg/L		0.000021	-0.00001 mg/L	0.000021	157.65%
Ca 317.933†	564564.7	25.59 mg/L		0.295	25.59 mg/L	0.295	1.15%
Cd 228.802†	4.8	0.00012 mg/L		0.000393	0.00012 mg/L	0.000393	330.11%
Co 228.616†	108.6	0.00291 mg/L		0.000483	0.00291 mg/L	0.000483	16.59%
Cr 267.716†	36.0	-0.00053 mg/L		0.000677	-0.00053 mg/L	0.000677	127.10%
Cu 324.752†	1795.0	0.00651 mg/L		0.000673	0.00651 mg/L	0.000673	10.33%
Fe 273.955†	530.9	0.5806 mg/L		0.01494	0.5806 mg/L	0.01494	2.57%
K 766.490†	23383.2	15.06 mg/L		0.094	15.06 mg/L	0.094	0.63%
Mg 279.077†	47783.3	32.74 mg/L		0.474	32.74 mg/L	0.474	1.45%
Mn 257.610†	4131.4	0.1604 mg/L		0.00437	0.1604 mg/L	0.00437	2.73%
Mo 202.031†	83.3	0.00715 mg/L		0.000340	0.00715 mg/L	0.000340	4.75%
Na 589.592†	2440306.0	410.4 mg/L		9.35	410.4 mg/L	9.35	2.28%
Na 330.237†	11603.3	423.5 mg/L		1.64	423.5 mg/L	1.64	0.39%
Ni 231.604†	14.4	0.00752 mg/L		0.000975	0.00752 mg/L	0.000975	12.97%
Pb 220.353†	10.2	0.00109 mg/L		0.000889	0.00109 mg/L	0.000889	81.34%
Sb 206.836†	2.7	0.00224 mg/L		0.003277	0.00224 mg/L	0.003277	146.61%
Se 196.026†	-7.2	-0.00488 mg/L		0.004013	-0.00488 mg/L	0.004013	82.29%
Si 288.158†	10043.5	7.228 mg/L		0.0582	7.228 mg/L	0.0582	0.81%
Sn 189.927†	-28.3	-0.00231 mg/L		0.001076	-0.00231 mg/L	0.001076	46.58%
Sr 421.552†	125718.8	0.1896 mg/L		0.00113	0.1896 mg/L	0.00113	0.60%
Ti 334.903†	147.4	0.00578 mg/L		0.001398	0.00578 mg/L	0.001398	24.18%
Tl 190.801†	-0.3	-0.00027 mg/L		0.003555	-0.00027 mg/L	0.003555	>999.9%
V 292.402†	3820.7	0.01346 mg/L		0.000159	0.01346 mg/L	0.000159	1.18%
Zn 206.200†	17.6	0.01811 mg/L		0.001561	0.01811 mg/L	0.001561	8.62%

Sequence No.: 7

Sample ID: JT02 C TWC

Analyst: BLW

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 45

Date Collected: 8/28/2006 2:17:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: JT02 C TWC

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: JT02 C TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1860304.7	103.9 %		2.94			2.83%
ScR 361.383	247365.4	117.6 %		0.85			0.72%
Ag 328.068†	-219.8	-0.00070 mg/L		0.000114	-0.00070 mg/L	0.000114	16.17%
Al 308.215†	38.7	0.02983 mg/L		0.001905	0.02983 mg/L	0.001905	6.39%
As 188.979†	13.0	0.00866 mg/L		0.004482	0.00866 mg/L	0.004482	51.75%
B 249.677†	639.3	0.2259 mg/L		0.00610	0.2259 mg/L	0.00610	2.70%
Ba 233.527†	91.8	0.02954 mg/L		0.001557	0.02954 mg/L	0.001557	5.27%
Be 313.042†	-59.7	-0.00012 mg/L		0.000033	-0.00012 mg/L	0.000033	28.78%
Ca 317.933†	1763376.8	79.93 mg/L		0.987	79.93 mg/L	0.987	1.23%
Cd 228.802†	-3.0	-0.00012 mg/L		0.000183	-0.00012 mg/L	0.000183	156.15%
Co 228.616†	54.4	0.00144 mg/L		0.000363	0.00144 mg/L	0.000363	25.18%
Cr 267.716†	34.7	-0.00124 mg/L		0.000618	-0.00124 mg/L	0.000618	50.03%
Cu 324.752†	1015.9	0.00357 mg/L		0.000128	0.00357 mg/L	0.000128	3.59%
Fe 273.955†	677.4	0.7408 mg/L		0.01750	0.7408 mg/L	0.01750	2.36%
K 766.490†	27411.8	17.66 mg/L		0.302	17.66 mg/L	0.302	1.71%
Mg 279.077†	53400.8	36.59 mg/L		0.816	36.59 mg/L	0.816	2.23%
Mn 257.610†	2398.1	0.09246 mg/L		0.001903	0.09246 mg/L	0.001903	2.06%
Mo 202.031†	95.7	0.00824 mg/L		0.000469	0.00824 mg/L	0.000469	5.68%
Na 589.592†	977551.3	164.4 mg/L		1.36	164.4 mg/L	1.36	0.83%
Na 330.237†	4607.4	167.5 mg/L		2.82	167.5 mg/L	2.82	1.68%
Ni 231.604†	14.7	0.00772 mg/L		0.003714	0.00772 mg/L	0.003714	48.12%
Pb 220.353†	4.7	0.00051 mg/L		0.000559	0.00051 mg/L	0.000559	110.54%
Sb 206.836†	7.9	0.00666 mg/L		0.002102	0.00666 mg/L	0.002102	31.55%
Se 196.026†	-15.2	-0.00998 mg/L		0.000265	-0.00998 mg/L	0.000265	2.66%
Si 288.158†	8336.0	5.999 mg/L		0.1024	5.999 mg/L	0.1024	1.71%
Sn 189.927†	-73.9	-0.00240 mg/L		0.001277	-0.00240 mg/L	0.001277	53.30%
Sr 421.552†	224401.4	0.3384 mg/L		0.00298	0.3384 mg/L	0.00298	0.88%
Ti 334.903†	96.2	0.00377 mg/L		0.001270	0.00377 mg/L	0.001270	33.71%
Tl 190.801†	-4.5	-0.00409 mg/L		0.001580	-0.00409 mg/L	0.001580	38.58%
V 292.402†	2945.2	0.01038 mg/L		0.000219	0.01038 mg/L	0.000219	2.11%
Zn 206.200†	5.7	0.00676 mg/L		0.000871	0.00676 mg/L	0.000871	12.88%

Sequence No.: 8

Sample ID: JT02 D TWC

Analyst: BLW

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 46

Date Collected: 8/28/2006 2:24:14 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: JT02 D TWC

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: JT02 D TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1709108.4	95.43 %		0.825			0.86%
ScR 361.383	215246.7	102.3 %		0.78			0.76%
Ag 328.068†	-22.0	-0.00006 mg/L		0.000187	-0.00006 mg/L	0.000187	297.02%
Al 308.215†	276.3	0.2141 mg/L		0.01050	0.2141 mg/L	0.01050	4.90%
As 188.979†	9.0	0.00851 mg/L		0.002849	0.00851 mg/L	0.002849	33.48%
B 249.677†	801.4	0.2833 mg/L		0.00133	0.2833 mg/L	0.00133	0.47%
Ba 233.527†	51.1	0.01646 mg/L		0.001340	0.01646 mg/L	0.001340	8.14%
Be 313.042†	49.0	0.00003 mg/L		0.000044	0.00003 mg/L	0.000044	155.05%
Ca 317.933†	195182.1	8.847 mg/L		0.0217	8.847 mg/L	0.0217	0.24%
Cd 228.802†	7.4	0.00021 mg/L		0.000137	0.00021 mg/L	0.000137	64.37%
Co 228.616†	57.1	0.00154 mg/L		0.000106	0.00154 mg/L	0.000106	6.85%
Cr 267.716†	32.4	0.00119 mg/L		0.000782	0.00119 mg/L	0.000782	65.54%
Cu 324.752†	1937.3	0.00709 mg/L		0.000117	0.00709 mg/L	0.000117	1.66%
Fe 273.955†	136.5	0.1492 mg/L		0.00240	0.1492 mg/L	0.00240	1.61%
K 766.490†	24007.6	15.46 mg/L		0.105	15.46 mg/L	0.105	0.68%
Mg 279.077†	27379.2	18.76 mg/L		0.042	18.76 mg/L	0.042	0.22%
Mn 257.610†	285.6	0.01077 mg/L		0.000052	0.01077 mg/L	0.000052	0.48%
Mo 202.031†	595.9	0.05626 mg/L		0.000461	0.05626 mg/L	0.000461	0.82%
Na 589.592†	2010976.0	338.2 mg/L		3.31	338.2 mg/L	3.31	0.98%
Na 330.237†	9385.1	342.6 mg/L		0.79	342.6 mg/L	0.79	0.23%
Ni 231.604†	6.6	0.00348 mg/L		0.001578	0.00348 mg/L	0.001578	45.34%
Pb 220.353†	-0.2	0.00004 mg/L		0.000672	0.00004 mg/L	0.000672	>999.9%
Sb 206.836†	0.6	0.00058 mg/L		0.000678	0.00058 mg/L	0.000678	117.45%
Se 196.026†	-3.7	-0.00243 mg/L		0.005098	-0.00243 mg/L	0.005098	209.45%
Si 288.158†	7140.1	5.139 mg/L		0.0160	5.139 mg/L	0.0160	0.31%
Sn 189.927†	-9.8	-0.00101 mg/L		0.000807	-0.00101 mg/L	0.000807	80.32%
Sr 421.552†	71181.3	0.1073 mg/L		0.00025	0.1073 mg/L	0.00025	0.23%
Ti 334.903†	230.9	0.00901 mg/L		0.001410	0.00901 mg/L	0.001410	15.66%
Tl 190.801†	-2.1	-0.00175 mg/L		0.001893	-0.00175 mg/L	0.001893	108.22%
V 292.402†	9820.1	0.03452 mg/L		0.000218	0.03452 mg/L	0.000218	0.63%
Zn 206.200†	27.3	0.02774 mg/L		0.001563	0.02774 mg/L	0.001563	5.63%

Sequence No.: 9
Sample ID: JT02 E TWC
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 47
Date Collected: 8/28/2006 2:30:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT02 E TWC
Analyte Back Pressure Flow
All 174.0 kPa 0.50 L/min

Mean Data: JT02 E TWC

Table with 8 columns: Analyte, Mean Intensity, Conc. Units, Std.Dev., Sample Conc. Units, Std.Dev., RSD. Lists various elements like ScA, ScR, Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn with their respective intensity and concentration values.

Sequence No.: 10
 Sample ID: JT02 F TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 48
 Date Collected: 8/28/2006 2:37:40 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT02 F TWC

Analyte Back Pressure Flow
 All 174.0 kPa 0.50 L/min

Mean Data: JT02 F TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1732537.9	96.74 %		0.167			0.17%
ScR 361.383	218178.5	103.7 %		0.33			0.32%
Ag 328.068†	-99.0	-0.00058 mg/L		0.000171	-0.00058 mg/L	0.000171	29.72%
Al 308.215†	20.9	0.01593 mg/L		0.005053	0.01593 mg/L	0.005053	31.72%
As 188.979†	31.4	0.02890 mg/L		0.006334	0.02890 mg/L	0.006334	21.92%
B 249.677†	580.6	0.2052 mg/L		0.00287	0.2052 mg/L	0.00287	1.40%
Ba 233.527†	90.0	0.02767 mg/L		0.000661	0.02767 mg/L	0.000661	2.39%
Be 313.042†	28.3	0.00004 mg/L		0.000002	0.00004 mg/L	0.000002	5.09%
Ca 317.933†	1071386.4	48.56 mg/L		0.114	48.56 mg/L	0.114	0.24%
Cd 228.802†	-10.2	-0.00055 mg/L		0.000073	-0.00055 mg/L	0.000073	13.25%
Co 228.616†	254.1	0.00642 mg/L		0.000273	0.00642 mg/L	0.000273	4.26%
Cr 267.716†	103.1	-0.00293 mg/L		0.000335	-0.00293 mg/L	0.000335	11.42%
Cu 324.752†	294.6	0.00209 mg/L		0.000150	0.00209 mg/L	0.000150	7.19%
Fe 273.955†	17249.7	18.87 mg/L		0.203	18.87 mg/L	0.203	1.08%
K 766.490†	21542.0	13.87 mg/L		0.144	13.87 mg/L	0.144	1.04%
Mg 279.077†	135388.1	92.76 mg/L		0.209	92.76 mg/L	0.209	0.23%
Mn 257.610†	163776.5	6.385 mg/L		0.0088	6.385 mg/L	0.0088	0.14%
Mo 202.031†	146.0	0.01169 mg/L		0.000327	0.01169 mg/L	0.000327	2.80%
Na 589.592†	613835.9	103.2 mg/L		0.25	103.2 mg/L	0.25	0.24%
Na 330.237†	2897.3	105.4 mg/L		1.27	105.4 mg/L	1.27	1.20%
Ni 231.604†	23.9	0.01251 mg/L		0.001148	0.01251 mg/L	0.001148	9.18%
Pb 220.353†	24.9	0.00264 mg/L		0.000199	0.00264 mg/L	0.000199	7.52%
Sb 206.836†	-0.3	-0.00058 mg/L		0.001897	-0.00058 mg/L	0.001897	327.10%
Se 196.026†	-30.8	-0.02722 mg/L		0.004531	-0.02722 mg/L	0.004531	16.64%
Si 288.158†	11737.7	8.448 mg/L		0.0629	8.448 mg/L	0.0629	0.74%
Sn 189.927†	-46.9	-0.00379 mg/L		0.000834	-0.00379 mg/L	0.000834	22.01%
Sr 421.552†	251098.6	0.3786 mg/L		0.00108	0.3786 mg/L	0.00108	0.29%
Ti 334.903†	64.3	0.00251 mg/L		0.001459	0.00251 mg/L	0.001459	58.20%
Tl 190.801†	-5.0	-0.00450 mg/L		0.005701	-0.00450 mg/L	0.005701	126.65%
V 292.402†	1848.3	0.00754 mg/L		0.000078	0.00754 mg/L	0.000078	1.03%
Zn 206.200†	14.4	0.01474 mg/L		0.000695	0.01474 mg/L	0.000695	4.72%

Sequence No.: 11
 Sample ID: JT82 APOST SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 49
 Date Collected: 8/28/2006 2:44:26 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT82 APOST SWC

Analyte Back Pressure Flow
 All 174.0 kPa 0.50 L/min

Mean Data: JT82 APOST SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1799387.6	100.5 %		0.30			0.30%
ScR 361.383	220097.0	104.6 %		0.95			0.91%
Ag 328.068†	152709.2	0.5046 mg/L		0.00126	2.523 mg/L	0.0063	0.25%
Al 308.215†	123656.0	96.56 mg/L		0.497	482.8 mg/L	2.48	0.51%
As 188.979†	2062.7	2.055 mg/L		0.0036	10.28 mg/L	0.018	0.18%
B 249.677†	22.3	0.00729 mg/L		0.001229	0.03645 mg/L	0.006144	16.85%
Ba 233.527†	7454.5	2.395 mg/L		0.0257	11.98 mg/L	0.129	1.07%
Be 313.042†	310350.6	0.5200 mg/L		0.00235	2.600 mg/L	0.0117	0.45%
Ca 317.933†	752934.2	34.13 mg/L		0.141	170.6 mg/L	0.70	0.41%
Cd 228.802†	16539.4	0.5037 mg/L		0.00086	2.519 mg/L	0.0043	0.17%
Co 228.616†	19864.7	0.5268 mg/L		0.00096	2.634 mg/L	0.0048	0.18%
Cr 267.716†	4654.4	0.5873 mg/L		0.00438	2.937 mg/L	0.0219	0.75%
Cu 324.752†	191958.8	0.7306 mg/L		0.00175	3.653 mg/L	0.0088	0.24%
Fe 273.955†	100366.1	109.8 mg/L		0.55	548.9 mg/L	2.76	0.50%
K 766.490†	20666.2	13.31 mg/L		0.060	66.55 mg/L	0.300	0.45%
Mg 279.077†	42797.9	29.25 mg/L		0.136	146.2 mg/L	0.68	0.47%
Mn 257.610†	45396.0	1.770 mg/L		0.0079	8.848 mg/L	0.0397	0.45%
Mo 202.031†	24.7	0.00380 mg/L		0.000528	0.01898 mg/L	0.002641	13.91%
Na 589.592†	85349.1	14.35 mg/L		0.078	71.77 mg/L	0.388	0.54%
Na 330.237†	374.4	14.24 mg/L		0.284	71.22 mg/L	1.420	1.99%
Ni 231.604†	1141.1	0.5976 mg/L		0.00316	2.988 mg/L	0.0158	0.53%
Pb 220.353†	25138.5	2.655 mg/L		0.0065	13.27 mg/L	0.032	0.24%
Sb 206.836†	15.6	0.01132 mg/L		0.002859	0.05661 mg/L	0.014296	25.25%
Se 196.026†	3168.8	2.055 mg/L		0.0130	10.28 mg/L	0.065	0.63%
Si 288.158†	7620.1	5.485 mg/L		0.0509	27.43 mg/L	0.254	0.93%
Sn 189.927†	-21.5	-0.00009 mg/L		0.000790	-0.00043 mg/L	0.003948	928.20%
Sr 421.552†	553871.0	0.8352 mg/L		0.00418	4.176 mg/L	0.0209	0.50%
Ti 334.903†	125602.7	4.933 mg/L		0.0201	24.67 mg/L	0.101	0.41%
Tl 190.801†	2164.5	1.948 mg/L		0.0064	9.738 mg/L	0.0322	0.33%
V 292.402†	227960.2	0.8018 mg/L		0.00132	4.009 mg/L	0.0066	0.16%
Zn 206.200†	1410.3	1.425 mg/L		0.0126	7.125 mg/L	0.0631	0.89%

Sequence No.: 12

Autosampler Location: 50

Sample ID: JT02 MB1SPK TWC

Date Collected: 8/28/2006 2:50:42 PM

Analyst: BLW

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution: 1X

Sample Prep Vol:

Nebulizer Parameters: JT02 MB1SPK TWC

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: JT02 MB1SPK TWC

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
ScA 357.253	1791032.2	100.0 %		0.27			0.27%
ScR 361.383	216216.3	102.8 %		0.54			0.52%
Ag 328.068†	152659.8	0.5001 mg/L		0.00205	0.5001 mg/L	0.00205	0.41%
Al 308.215†	2651.0	2.062 mg/L		0.0029	2.062 mg/L	0.0029	0.14%
As 188.979†	2046.7	2.062 mg/L		0.0119	2.062 mg/L	0.0119	0.58%
B 249.677†	-5.0	-0.00082 mg/L		0.002142	-0.00082 mg/L	0.002142	261.58%
Ba 233.527†	6195.5	1.997 mg/L		0.0123	1.997 mg/L	0.0123	0.61%
Be 313.042†	318868.2	0.5347 mg/L		0.00073	0.5347 mg/L	0.00073	0.14%
Ca 317.933†	231735.1	10.50 mg/L		0.011	10.50 mg/L	0.011	0.11%
Cd 228.802†	16722.3	0.5104 mg/L		0.00192	0.5104 mg/L	0.00192	0.38%
Co 228.616†	18392.9	0.4966 mg/L		0.00186	0.4966 mg/L	0.00186	0.37%
Cr 267.716†	4057.5	0.5074 mg/L		0.00365	0.5074 mg/L	0.00365	0.72%
Cu 324.752†	133704.2	0.5027 mg/L		0.00224	0.5027 mg/L	0.00224	0.45%
Fe 273.955†	1984.0	2.169 mg/L		0.0180	2.169 mg/L	0.0180	0.83%
K 766.490†	16478.6	10.61 mg/L		0.025	10.61 mg/L	0.025	0.23%
Mg 279.077†	15900.5	10.90 mg/L		0.009	10.90 mg/L	0.009	0.08%
Mn 257.610†	13008.3	0.5075 mg/L		0.00087	0.5075 mg/L	0.00087	0.17%
Mo 202.031†	20.6	0.00174 mg/L		0.000303	0.00174 mg/L	0.000303	17.37%
Na 589.592†	63281.0	10.64 mg/L		0.022	10.64 mg/L	0.022	0.21%
Na 330.237†	299.8	10.72 mg/L		0.162	10.72 mg/L	0.162	1.51%
Ni 231.604†	994.5	0.5220 mg/L		0.00526	0.5220 mg/L	0.00526	1.01%
Pb 220.353†	19376.5	2.032 mg/L		0.0136	2.032 mg/L	0.0136	0.67%
SD 206.836†	2335.3	2.038 mg/L		0.0139	2.038 mg/L	0.0139	0.68%
Se 196.026†	3227.1	2.094 mg/L		0.0069	2.094 mg/L	0.0069	0.33%
Si 288.158†	20.6	0.01593 mg/L		0.006583	0.01593 mg/L	0.006583	41.33%
Sn 189.927†	-18.9	0.00142 mg/L		0.001287	0.00142 mg/L	0.001287	90.55%
Sr 421.552†	341476.4	0.5149 mg/L		0.00116	0.5149 mg/L	0.00116	0.23%
Ti 334.903†	32.4	0.00116 mg/L		0.000659	0.00116 mg/L	0.000659	56.70%
Tl 190.801†	2238.6	2.020 mg/L		0.0059	2.020 mg/L	0.0059	0.29%
V 292.402†	146070.6	0.5161 mg/L		0.00204	0.5161 mg/L	0.00204	0.39%
Zn 206.200†	521.5	0.5279 mg/L		0.00499	0.5279 mg/L	0.00499	0.95%

Sequence No.: 13
 Sample ID: CV 5
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 7
 Date Collected: 8/28/2006 2:57:08 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	174.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1760089.9	98.28	%	0.264			0.27%
ScR 361.383	214691.5	102.1	%	1.07			1.05%
Ag 328.068†	305775.7	1.002	mg/L	0.0008	1.002 mg/L	0.0008	0.08%
Al 308.215†	2616.2	2.006	mg/L	0.0180	2.006 mg/L	0.0180	0.90%
As 188.979†	2025.6	2.037	mg/L	0.0043	2.037 mg/L	0.0043	0.21%
B 249.677†	2774.1	0.9835	mg/L	0.01353	0.9835 mg/L	0.01353	1.38%
Ba 233.527†	3036.7	0.9786	mg/L	0.00785	0.9786 mg/L	0.00785	0.80%
Be 313.042†	603278.4	1.012	mg/L	0.0067	1.012 mg/L	0.0067	0.66%
Ca 317.933†	45748.1	2.074	mg/L	0.0142	2.074 mg/L	0.0142	0.68%
Cd 228.802†	33420.7	1.023	mg/L	0.0011	1.023 mg/L	0.0011	0.11%
Co 228.616†	36531.6	0.9857	mg/L	0.00282	0.9857 mg/L	0.00282	0.29%
Cr 267.716†	7708.2	0.9663	mg/L	0.01030	0.9663 mg/L	0.01030	1.07%
Cu 324.752†	277446.7	1.042	mg/L	0.0012	1.042 mg/L	0.0012	0.11%
Fe 273.955†	1884.0	2.058	mg/L	0.0169	2.058 mg/L	0.0169	0.82%
K 766.490†	31033.7	19.99	mg/L	0.229	19.99 mg/L	0.229	1.15%
Mg 279.077†	3003.6	2.062	mg/L	0.0110	2.062 mg/L	0.0110	0.53%
Mn 257.610†	24822.1	0.9685	mg/L	0.00835	0.9685 mg/L	0.00835	0.86%
Mo 202.031†	10392.9	0.9890	mg/L	0.00127	0.9890 mg/L	0.00127	0.13%
Na 589.592†	301357.4	50.68	mg/L	0.472	50.68 mg/L	0.472	0.93%
Na 330.237†	1416.8	51.71	mg/L	0.498	51.71 mg/L	0.498	0.96%
Ni 231.604†	1941.6	1.018	mg/L	0.0078	1.018 mg/L	0.0078	0.76%
Pb 220.353†	19043.9	1.999	mg/L	0.0029	1.999 mg/L	0.0029	0.15%
Sb 206.836†	2412.5	2.113	mg/L	0.0052	2.113 mg/L	0.0052	0.25%
Se 196.026†	3175.1	2.060	mg/L	0.0056	2.060 mg/L	0.0056	0.27%
Si 288.158†	2777.4	2.001	mg/L	0.0203	2.001 mg/L	0.0203	1.02%
Sn 189.927†	4466.1	0.9474	mg/L	0.00329	0.9474 mg/L	0.00329	0.35%
Sr 421.552†	659380.8	0.9943	mg/L	0.00794	0.9943 mg/L	0.00794	0.80%
Ti 334.903†	25721.7	1.009	mg/L	0.0084	1.009 mg/L	0.0084	0.83%
Tl 190.801†	2217.3	2.000	mg/L	0.0075	2.000 mg/L	0.0075	0.38%
V 292.402†	285154.3	1.008	mg/L	0.0005	1.008 mg/L	0.0005	0.05%
Zn 206.200†	1022.6	1.034	mg/L	0.0073	1.034 mg/L	0.0073	0.71%

Sequence No.: 14
 Sample ID: CB
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/28/2006 3:03:20 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 174.0 kPa 0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1800940.9	100.6 %		0.84			0.83%
ScR 361.383	216345.2	102.8 %		0.75			0.73%
Ag 328.068†	33.5	0.00011 mg/L		0.000088	0.00011 mg/L	0.000088	80.31%
Al 308.215†	-4.5	-0.00352 mg/L		0.021093	-0.00352 mg/L	0.021093	598.52%
As 188.979†	6.3	0.00631 mg/L		0.003080	0.00631 mg/L	0.003080	48.80%
B 249.677†	15.6	0.00553 mg/L		0.005234	0.00553 mg/L	0.005234	94.68%
Ba 233.527†	2.2	0.00072 mg/L		0.001137	0.00072 mg/L	0.001137	156.97%
Be 313.042†	24.5	0.00004 mg/L		0.000033	0.00004 mg/L	0.000033	80.09%
Ca 317.933†	-16.6	-0.00075 mg/L		0.000608	-0.00075 mg/L	0.000608	81.10%
Cd 228.802†	8.1	0.00024 mg/L		0.000080	0.00024 mg/L	0.000080	33.52%
Co 228.616†	9.9	0.00027 mg/L		0.000207	0.00027 mg/L	0.000207	77.54%
Cr 267.716†	5.8	0.00073 mg/L		0.000330	0.00073 mg/L	0.000330	44.95%
Cu 324.752†	374.7	0.00141 mg/L		0.000018	0.00141 mg/L	0.000018	1.29%
Fe 273.955†	6.2	0.00683 mg/L		0.004018	0.00683 mg/L	0.004018	58.81%
K 766.490†	91.9	0.05921 mg/L		0.022815	0.05921 mg/L	0.022815	38.53%
Mg 279.077†	-24.8	-0.01697 mg/L		0.011913	-0.01697 mg/L	0.011913	70.22%
Mn 257.610†	8.6	0.00034 mg/L		0.000189	0.00034 mg/L	0.000189	56.40%
Mo 202.031†	6.6	0.00063 mg/L		0.000158	0.00063 mg/L	0.000158	25.07%
Na 589.592†	206.9	0.03481 mg/L		0.002693	0.03481 mg/L	0.002693	7.74%
Na 330.237†	11.2	0.4103 mg/L		0.10654	0.4103 mg/L	0.10654	25.97%
Ni 231.604†	3.9	0.00206 mg/L		0.000502	0.00206 mg/L	0.000502	24.42%
Pb 220.353†	14.1	0.00147 mg/L		0.000497	0.00147 mg/L	0.000497	33.73%
Sb 206.836†	-1.8	-0.00158 mg/L		0.000731	-0.00158 mg/L	0.000731	46.37%
Se 196.026†	0.8	0.00053 mg/L		0.002927	0.00053 mg/L	0.002927	553.65%
Si 288.158†	4.1	0.00294 mg/L		0.005180	0.00294 mg/L	0.005180	175.98%
Sn 189.927†	11.7	0.00247 mg/L		0.000712	0.00247 mg/L	0.000712	28.84%
Sr 421.552†	-72.3	-0.00011 mg/L		0.000069	-0.00011 mg/L	0.000069	63.31%
Ti 334.903†	15.2	0.00060 mg/L		0.001691	0.00060 mg/L	0.001691	283.83%
Tl 190.801†	6.9	0.00620 mg/L		0.002509	0.00620 mg/L	0.002509	40.48%
V 292.402†	62.9	0.00023 mg/L		0.000140	0.00023 mg/L	0.000140	62.14%
Zn 206.200†	2.6	0.00265 mg/L		0.000941	0.00265 mg/L	0.000941	35.51%

OPTIMA ICP SAMPLE RUN LOG

IEC Date: 6.19.6 Analysis Date: 8.29.6 Analyst: JRS
 LR Date: 6.19.6 Page: 1 of 6

All corrections made by analyst unless otherwise noted. 8/24/06 JRS

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		STD 1			2215-9
		↓ 2			2297-3
		↓ 3			↓ -4
		↓ 4			↓ -5
		↓ 5			↓ -6
		ICV			2294-3
		ICB			
Z		CR1 222222			
		CR1			
		ICSA			
		ICSA B			
Z		CCV 20000			Service valves open
		CCV1			
		CCB1			
		JT9 D	SWC	2.5	
		↓ E	↓	↓	
		↓ F	↓	↓	
		CCV 2			
		CCB 2			
		J91 MB1	SWC	2 ✓	
		↓ A	↓	↓	
		↓ B	↓	↓	
		↓ C	↓	↓	
		↓ D	↓	↓	

OPTIMA ICP SAMPLE RUN LOG

IEC Date: _____

Analysis Date: 8.24.06

Analyst: JB/BW

LR Date: _____

Page: 2 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		JS91 E	SWC	Z	
		↓ F	↓	↓	
		↓ G	↓	↓	
		↓ H	↓	↓	
		↓ REF1	↓	↓	✓
		CCV 3			
		CCB 3			
		JS91 MB2	SWC	Z	✓
		↓ I	↓	↓	
		↓ J	↓	↓	
		↓ K	↓	↓	
		↓ L	↓	↓	
		↓ M	↓	↓	
		↓ N	↓	↓	
		↓ O	↓	↓	
		↓ P	↓	↓	
		↓ Ref2	↓	↓	✓
		CCV 4			
		CCB 4			
		JS63 MB	TCC		
		↓ A	↓		
		↓ B	↓		
		JS91 Q	SWC	Z	
		↓ R	↓	↓	

OPTIMA ICP SAMPLE RUN LOG

IEC Date: Analysis Date: 8.24.06 Analyst: AW
 LR Date: Page: 3 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		J591 S	TWC	2	
		↓ T	↓	↓	
		↓ U	↓	↓	
		↓ ✓	↓	↓	
		J563 MBsph	TWC		✓
		CCV5			
		CCB5			
		J584 MB2	TWC		
		J582 MB			
		↓ C			
		J584 J			
		↓ K			
		↓ L			
		↓ Idsp			✓
		↓ I			✓
		↓ Isph			✓
		↓ MB2sph			✓
		CCV6			
		CCB6			
		J582 MB1	TWC	2	Zn .017
		J566 A	TWC		
	✓	↓ B	↓		Ca K high - rem/s
		↓ C	↓		
	✓	↓ D	↓		Fe high - rem/10

OPTIMA ICP SAMPLE RUN LOG

IEC Date: _____ Analysis Date: 8.24.06 Analyst: BW
 LR Date: _____ Page: 4 of 6

All corrections made by analyst unless otherwise noted. 8.25.06 BW

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		JT82 B	suc	2	
		↓ C	↓	↓	
		↓ D	↓	↓	
		JS66 MB ^{sdh}	TWC		✓
		JS82 MB ^{sdh}	TWC		✓
		CCV7			
		CCB7			
		JT82 E	suc	2	
	✓	↓ F	↓	↓	Fe high - rem ¹ /5
		↓ G	↓	↓	
		↓ H	↓	↓	
		↓ I	↓	↓	
label		ZZZZA-L		10	
	✓	JT82 A	suc	2	Fe high - rem ¹ /5
	✓	↓ Adep	↓	↓	Pb60% Zn70%
	✓	↓ A ^{sdh}	↓	↓	
		↓ MB ^{sdh}	↓	↓	✓
		CCV8			
		CCB8			
label	✓	JT82 MB1	suc	2	Zn 102 confirms prev.
		JS66 MB2	TWC		
	✓	↓ E	↓	↓	Ca high rem ¹ /2
	✓	↓ F	↓	↓	Ca high rem ¹ /5
		↓ G	↓	↓	

OPTIMA ICP SAMPLE RUN LOG

IEC Date: _____ Analysis Date: 8.24.06 Analyst: BW
 LR Date: _____ BW 8.25.06 Page: 5 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
	✓	JS66 H	TWC		Fe high remu 1/10
		JT38 A	SUC	2	
		JT30 A	↓	↓	
		↓ MBsqh	↓	↓ ✓	
		JS66 MB2 sqh	TWC		
		CCV9			
		CCB9			end package
		JT30 MB	SUC	2	
	✓	JT31 MB	TWC		Zn .007 CBout
	✓	↓ A	↓		Ca K Na S high - remu 1/10
	✓	↓ B	↓		1/20
		JT38 B	SUC	2	
		↓ C	↓	↓	
		↓ D	↓	↓	
		↓ E	↓	↓	
		↓ MBsqh	↓	↓ ✓	
	✓	JT31 MBsqh	TWC		CBout
		CCV			
		CCB			K Na C.O.
	✓	JT38 MB	SUC	2	Zn .019 CBout
	✓	JT73 MB2	WMW		CU/CBout
	✓	↓ M131	TWC		
	✓	↓ A	↓		Ca K Na S high remu 1/20
	✓	↓ B	↓		Ca K Na S high remu 1/20

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 8.24.06

	Analyst	Peer	Comment
Logbook:	<u>BW824</u>	<u>H025</u>	
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	see log ↓
ICB/CCB	✓	✓	
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	✓	✓	JT31 JT13
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	✓	✓	
Analytic Spikes	✓	✓	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	see log
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	

Nebulizer Parameters: Hg_ReAlign

Analyte Back Pressure Flow
All 167.0 kPa 0.50 L/min

8/24/2006 8:56:05 AM Hg ReAlign... Actual peak offset (nm): -0.002
Drift (nm): 0.000 Slit adjustment: 0

Analysis Begun

Start Time: 8/24/2006 8:58:14 AM Plasma On Time: 8/24/2006 7:57:55 AM
Logged In Analyst: metals Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif

Batch ID:

Results Data Set: PE060824

Results Library: C:\pe\Administrator\Results\Results.mdb

Method Loaded

Method Name: ARIIEC5

Method Last Saved: 6/20/2006 9:43:41 AM

IEC File: IEC28.iec

MSF File:

Method Description: 12Axial Elements

Table with 6 columns: Analyte, Calibration Equation, Processing, View, Internal Standard, IEC. Lists various elements like Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn, ScA, ScR with their respective calibration equations, processing methods, views, standards, and IEC status.

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 8/24/2006 8:58:15 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte Back Pressure Flow
All 167.0 kPa 0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected		RSD		Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units	
ScA 357.253	1735969.3	5239.44	0.30%	100.0	%	
ScR 361.383	208279.1	1614.99	0.78%	100.0	%	
Ag 328.068†	716.6	95.47	13.32%	[0.00]	mg/L	
Al 308.215†	-172.3	19.89	11.55%	[0.00]	mg/L	
As 188.979†	28.8	1.75	6.10%	[0.00]	mg/L	
B 249.677†	-31.9	5.12	16.09%	[0.00]	mg/L	
Ba 233.527†	40.3	3.92	9.74%	[0.00]	mg/L	
Be 313.042†	1029.6	22.29	2.17%	[0.00]	mg/L	
Ca 317.933†	491.8	10.61	2.16%	[0.00]	mg/L	
Cd 228.802†	180.8	3.71	2.05%	[0.00]	mg/L	
Co 228.616†	55.9	3.66	6.55%	[0.00]	mg/L	
Cr 267.716†	62.7	7.77	12.38%	[0.00]	mg/L	
Cu 324.752†	3344.8	17.58	0.53%	[0.00]	mg/L	
Fe 273.955†	-42.1	2.22	5.28%	[0.00]	mg/L	
K 766.490†	2651.5	76.50	2.89%	[0.00]	mg/L	
Mg 279.077†	-174.4	6.61	3.79%	[0.00]	mg/L	
Mn 257.610†	66.4	3.52	5.31%	[0.00]	mg/L	
Mo 202.031†	-53.2	5.63	10.58%	[0.00]	mg/L	
Na 589.592†	177.3	23.89	13.48%	[0.00]	mg/L	
Na 330.237†	-187.4	16.98	9.06%	[0.00]	mg/L	
Ni 231.604†	12.6	1.09	8.67%	[0.00]	mg/L	
Pb 220.353†	149.7	5.51	3.68%	[0.00]	mg/L	
Sb 206.836†	15.6	1.00	6.41%	[0.00]	mg/L	
Se 196.026†	-88.1	0.69	0.79%	[0.00]	mg/L	
Si 288.158†	-88.4	5.28	5.98%	[0.00]	mg/L	
Sn 189.927†	11.2	0.83	7.45%	[0.00]	mg/L	
Sr 421.552†	95.9	12.74	13.29%	[0.00]	mg/L	
Ti 334.903†	-247.2	18.93	7.66%	[0.00]	mg/L	
Tl 190.801†	-16.4	0.67	4.08%	[0.00]	mg/L	
V 292.402†	-148.0	45.10	30.48%	[0.00]	mg/L	
Zn 206.200†	-0.0	0.49	>999.9%	[0.00]	mg/L	

Sequence No.: 2

Sample ID: STD2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 8/24/2006 9:04:38 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
ScA 357.253	1720425.9	13284.41	0.77%	99.10	%
ScR 361.383	208624.5	1410.58	0.68%	100.2	%
Ba 233.527†	33719.0	42.26	0.13%	[10]	mg/L
Cd 228.802†	339290.5	549.71	0.16%	[10]	mg/L
Co 228.616†	397062.5	375.12	0.09%	[10]	mg/L
Cr 267.716†	84434.4	280.10	0.33%	[10]	mg/L
Cu 324.752†	2707526.5	5273.85	0.19%	[10]	mg/L
Mn 257.610†	270659.9	853.22	0.32%	[10]	mg/L
V 292.402†	2970306.7	1115.25	0.04%	[10]	mg/L

=====

Sequence No.: 3	Autosampler Location: 3
Sample ID: STD3	Date Collected: 8/24/2006 9:08:50 AM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	1686669.6	5141.45	0.30%	97.16 %
ScR 361.383	206923.8	943.23	0.46%	99.35 %
Ag 328.068†	316255.8	641.72	0.20%	[1.0] mg/L
As 188.979†	10452.7	60.03	0.57%	[10] mg/L
B 249.677†	29517.7	139.56	0.47%	[10] mg/L
Be 313.042†	3087596.2	2658.17	0.09%	[5.0] mg/L
Na 589.592†	296861.6	1384.66	0.47%	[50] mg/L
Ni 231.604†	20623.2	72.91	0.35%	[10] mg/L
Pb 220.353†	97859.9	268.84	0.27%	[10] mg/L
Se 196.026†	16022.0	50.70	0.32%	[10] mg/L
Sr 421.552†	3394576.8	5215.83	0.15%	[5] mg/L
Tl 190.801†	11656.7	63.17	0.54%	[10] mg/L
Zn 206.200†	10582.6	24.05	0.23%	[10] mg/L

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=====
Sequence No.: 4                      Autosampler Location: 4
Sample ID: STD4                      Date Collected: 8/24/2006 9:13:35 AM
Analyst:                             Data Type: Original
Initial Sample Wt:                   Initial Sample Vol:
Dilution:                           Sample Prep Vol:
=====

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Nebulizer Parameters: STD4
Analyte      Back Pressure  Flow
All          167.0 kPa    0.50 L/min
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Mean Data: STD4

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Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	1723086.6	4207.31	0.24%	99.26 %
ScR 361.383	209791.0	1251.60	0.60%	100.7 %
Mo 202.031†	109246.1	298.84	0.27%	[10] mg/L
Sb 206.836†	11372.4	12.56	0.11%	[10] mg/L
Si 288.158†	14268.7	90.97	0.64%	[10] mg/L
Sn 189.927†	49328.3	123.99	0.25%	[10] mg/L
Ti 334.903†	261853.6	522.60	0.20%	[10] mg/L

Sequence No.: 5

Autosampler Location: 5

Sample ID: STD5

Date Collected: 8/24/2006 9:18:12 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1622344.2	3771.36	0.23%	93.45	%
ScR 361.383	200818.0	2392.26	1.19%	96.42	%
Al 308.215†	40808.1	109.71	0.27%	[30]	mg/L
Ca 317.933†	693361.2	5580.46	0.80%	[30]	mg/L
Fe 273.955†	92923.3	309.47	0.33%	[100]	mg/L
K 766.490†	154735.9	887.62	0.57%	[100]	mg/L
Mg 279.077†	47471.5	61.64	0.13%	[30]	mg/L
Na 330.237†	2819.6	23.58	0.84%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	316300	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1360	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1045	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	2952	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	3372	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	617500	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	23110	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	33930	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	39710	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	8443	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	270800	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	929.2	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1547	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1582	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	27070	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	10920	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	5937	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	28.20	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	2062	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	9786	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	1137	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1602	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1427	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	4933	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	678900	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	26190	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1166	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	297000	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	1058	0.00000	1.000000	

=====
Analysis Begun

Start Time: 8/24/2006 9:57:57 AM

Plasma On Time: 8/24/2006 7:57:55 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISSET.sif

Batch ID:

Results Data Set: PE060824

Results Library: C:\pe\Administrator\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 7

Sample ID: CV

Date Collected: 8/24/2006 9:57:57 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution: 1X

Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
ScA 357.253	1657956.7	95.51	%	0.113				0.12%
ScR 361.383	206243.7	99.02	%	0.690				0.70%
Ag 328.068†	318368.6	1.007	mg/L	0.0021	1.007	mg/L	0.0021	0.21%
Al 308.215†	2736.1	1.975	mg/L	0.0210	1.975	mg/L	0.0210	1.06%
As 188.979†	2103.2	2.007	mg/L	0.0090	2.007	mg/L	0.0090	0.45%
B 249.677†	2795.2	0.9502	mg/L	0.01655	0.9502	mg/L	0.01655	1.74%
Ba 233.527†	3175.9	0.9414	mg/L	0.01078	0.9414	mg/L	0.01078	1.15%
Be 313.042†	601908.7	0.9731	mg/L	0.00121	0.9731	mg/L	0.00121	0.12%
Ca 317.933†	46940.3	2.031	mg/L	0.0009	2.031	mg/L	0.0009	0.04%
Cd 228.802†	34833.4	1.024	mg/L	0.0021	1.024	mg/L	0.0021	0.20%
Co 228.616†	39356.1	0.9895	mg/L	0.00377	0.9895	mg/L	0.00377	0.38%
Cr 267.716†	7825.1	0.9257	mg/L	0.01177	0.9257	mg/L	0.01177	1.27%
Cu 324.752†	284531.5	1.050	mg/L	0.0015	1.050	mg/L	0.0015	0.15%
Fe 273.955†	1837.7	1.975	mg/L	0.0249	1.975	mg/L	0.0249	1.26%
K 766.490†	30458.2	19.68	mg/L	0.088	19.68	mg/L	0.088	0.44%
Mg 279.077†	3167.0	2.005	mg/L	0.0253	2.005	mg/L	0.0253	1.26%
Mn 257.610†	25085.7	0.9272	mg/L	0.00017	0.9272	mg/L	0.00017	0.02%
Mo 202.031†	10703.4	0.9797	mg/L	0.00380	0.9797	mg/L	0.00380	0.39%
Na 589.592†	296904.6	50.01	mg/L	0.010	50.01	mg/L	0.010	0.02%
Na 330.237†	1461.3	51.82	mg/L	0.655	51.82	mg/L	0.655	1.26%
Ni 231.604†	1980.6	0.9616	mg/L	0.01218	0.9616	mg/L	0.01218	1.27%
Pb 220.353†	19154.0	1.959	mg/L	0.0085	1.959	mg/L	0.0085	0.43%
Sb 206.836†	2402.8	2.114	mg/L	0.0069	2.114	mg/L	0.0069	0.33%
Se 196.026†	3241.7	2.022	mg/L	0.0129	2.022	mg/L	0.0129	0.64%
Si 288.158†	2867.9	2.012	mg/L	0.0165	2.012	mg/L	0.0165	0.82%
Sn 189.927†	4670.7	0.9509	mg/L	0.00659	0.9509	mg/L	0.00659	0.69%
Sr 421.552†	670927.6	0.9882	mg/L	0.00053	0.9882	mg/L	0.00053	0.05%
Ti 334.903†	26285.7	1.003	mg/L	0.0010	1.003	mg/L	0.0010	0.10%
Tl 190.801†	2320.1	1.987	mg/L	0.0090	1.987	mg/L	0.0090	0.45%
V 292.402†	298962.9	1.013	mg/L	0.0023	1.013	mg/L	0.0023	0.22%
Zn 206.200†	1021.3	0.9643	mg/L	0.01290	0.9643	mg/L	0.01290	1.34%

Sequence No.: 2
 Sample ID: CB
 Analyst:
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/24/2006 10:04:09 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 168.0 kPa 0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1700717.7	97.97 %	%	0.994			1.01%
ScR 361.383	204848.1	98.35 %	%	0.108			0.11%
Ag 328.068†	-33.2	-0.00010 mg/L	mg/L	0.000115	-0.00010 mg/L	0.000115	109.71%
Al 308.215†	8.0	0.00586 mg/L	mg/L	0.005516	0.00586 mg/L	0.005516	94.18%
As 188.979†	7.7	0.00739 mg/L	mg/L	0.003166	0.00739 mg/L	0.003166	42.83%
B 249.677†	25.2	0.00855 mg/L	mg/L	0.000831	0.00855 mg/L	0.000831	9.72%
Ba 233.527†	-0.1	-0.00004 mg/L	mg/L	0.001823	-0.00004 mg/L	0.001823	>999.9%
Be 313.042†	0.5	0.00000 mg/L	mg/L	0.000027	0.00000 mg/L	0.000027	>999.9%
Ca 317.933†	-8.1	-0.00035 mg/L	mg/L	0.001159	-0.00035 mg/L	0.001159	329.70%
Cd 228.802†	8.1	0.00023 mg/L	mg/L	0.000152	0.00023 mg/L	0.000152	67.16%
Co 228.616†	-2.7	-0.00007 mg/L	mg/L	0.000254	-0.00007 mg/L	0.000254	379.84%
Cr 267.716†	9.6	0.00114 mg/L	mg/L	0.000146	0.00114 mg/L	0.000146	12.85%
Cu 324.752†	33.3	0.00012 mg/L	mg/L	0.000155	0.00012 mg/L	0.000155	126.29%
Fe 273.955†	1.7	0.00186 mg/L	mg/L	0.001553	0.00186 mg/L	0.001553	83.62%
K 766.490†	107.6	0.06954 mg/L	mg/L	0.022851	0.06954 mg/L	0.022851	32.86%
Mg 279.077†	1.5	0.00096 mg/L	mg/L	0.021598	0.00096 mg/L	0.021598	>999.9%
Mn 257.610†	13.1	0.00048 mg/L	mg/L	0.000065	0.00048 mg/L	0.000065	13.41%
Mo 202.031†	5.3	0.00049 mg/L	mg/L	0.000605	0.00049 mg/L	0.000605	123.90%
Na 589.592†	171.4	0.02887 mg/L	mg/L	0.004257	0.02887 mg/L	0.004257	14.74%
Na 330.237†	-2.6	-0.09183 mg/L	mg/L	0.452294	-0.09183 mg/L	0.452294	492.54%
Ni 231.604†	-4.0	-0.00194 mg/L	mg/L	0.002675	-0.00194 mg/L	0.002675	137.91%
Pb 220.353†	2.4	0.00024 mg/L	mg/L	0.000142	0.00024 mg/L	0.000142	58.47%
Sb 206.836†	-0.8	-0.00072 mg/L	mg/L	0.003780	-0.00072 mg/L	0.003780	523.30%
Se 196.026†	7.7	0.00480 mg/L	mg/L	0.001655	0.00480 mg/L	0.001655	34.47%
Si 288.158†	1.2	0.00081 mg/L	mg/L	0.009855	0.00081 mg/L	0.009855	>999.9%
Sn 189.927†	6.2	0.00126 mg/L	mg/L	0.001062	0.00126 mg/L	0.001062	84.14%
Sr 421.552†	-7.4	-0.00001 mg/L	mg/L	0.000059	-0.00001 mg/L	0.000059	536.18%
Ti 334.903†	-18.0	-0.00069 mg/L	mg/L	0.001079	-0.00069 mg/L	0.001079	156.90%
Tl 190.801†	4.8	0.00409 mg/L	mg/L	0.001343	0.00409 mg/L	0.001343	32.89%
V 292.402†	8.2	0.00004 mg/L	mg/L	0.000184	0.00004 mg/L	0.000184	502.75%
Zn 206.200†	0.0	0.00002 mg/L	mg/L	0.002393	0.00002 mg/L	0.002393	>999.9%

Sequence No.: 3

Sample ID: ~~CRI~~ *W1111*

Analyst:

Initial Sample Wt:

Dilution: 1X

[Handwritten Signature]

Autosampler Location: 8

Date Collected: 8/24/2006 10:10:31 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: CRI

Analyte Back Pressure Flow
All 167.0 kPa 0.50 L/min

Mean Data: CRI

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	1674031.6		96.43 %	2.286				2.37%
ScR 361.383	208744.2		100.2 %	0.63				0.63%
Ag 328.068†	894.6		0.00283 mg/L	0.000166	0.00283 mg/L	0.000166		5.87%
Al 308.215†	84.4		0.06192 mg/L	0.012677	0.06192 mg/L	0.012677		20.47%
As 188.979†	59.5		0.05691 mg/L	0.002635	0.05691 mg/L	0.002635		4.63%
B 249.677†	76.2		0.02583 mg/L	0.001328	0.02583 mg/L	0.001328		5.14%
Ba 233.527†	6.3		0.00185 mg/L	0.001312	0.00185 mg/L	0.001312		70.80%
Be 313.042†	607.7		0.00098 mg/L	0.000065	0.00098 mg/L	0.000065		6.61%
Ca 317.933†	1206.9		0.05222 mg/L	0.000576	0.05222 mg/L	0.000576		1.10%
Cd 228.802†	79.1		0.00225 mg/L	0.000267	0.00225 mg/L	0.000267		11.86%
Co 228.616†	116.9		0.00294 mg/L	0.000214	0.00294 mg/L	0.000214		7.30%
Cr 267.716†	52.1		0.00616 mg/L	0.000580	0.00616 mg/L	0.000580		9.42%
Cu 324.752†	671.2		0.00248 mg/L	0.000159	0.00248 mg/L	0.000159		6.40%
Fe 273.955†	51.8		0.05574 mg/L	0.001027	0.05574 mg/L	0.001027		1.84%
K 766.490†	831.7		0.5375 mg/L	0.04226	0.5375 mg/L	0.04226		7.86%
Mg 279.077†	83.3		0.05260 mg/L	0.008875	0.05260 mg/L	0.008875		16.87%
Mn 257.610†	39.3		0.00146 mg/L	0.000176	0.00146 mg/L	0.000176		12.09%
Mo 202.031†	56.4		0.00516 mg/L	0.000321	0.00516 mg/L	0.000321		6.21%
Na 589.592†	3304.2		0.5565 mg/L	0.00606	0.5565 mg/L	0.00606		1.09%
Na 330.237†	-2.0		-0.06991 mg/L	0.358569	-0.06991 mg/L	0.358569		512.88%
Ni 231.604†	19.9		0.00967 mg/L	0.001984	0.00967 mg/L	0.001984		20.53%
Pb 220.353†	200.7		0.02053 mg/L	0.000694	0.02053 mg/L	0.000694		3.38%
Sb 206.836†	63.6		0.05596 mg/L	0.004432	0.05596 mg/L	0.004432		7.92%
Se 196.026†	83.9		0.05235 mg/L	0.002616	0.05235 mg/L	0.002616		5.00%
Si 288.158†	137.5		0.09640 mg/L	0.004803	0.09640 mg/L	0.004803		4.98%
Sn 189.927†	54.3		0.01111 mg/L	0.000172	0.01111 mg/L	0.000172		1.55%
Sr 421.552†	738.6		0.00109 mg/L	0.000062	0.00109 mg/L	0.000062		5.68%
Ti 334.903†	142.9		0.00545 mg/L	0.000453	0.00545 mg/L	0.000453		8.32%
Tl 190.801†	68.1		0.05839 mg/L	0.001352	0.05839 mg/L	0.001352		2.32%
V 292.402†	1004.1		0.00343 mg/L	0.000077	0.00343 mg/L	0.000077		2.24%
Zn 206.200†	5.6		0.00532 mg/L	0.001106	0.00532 mg/L	0.001106		20.78%

User canceled analysis.

=====
Analysis Begun

Start Time: 8/24/2006 10:18:23 AM

Plasma On Time: 8/24/2006 7:57:55 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\blank.sif

Batch ID:

Results Data Set: PE060824

Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 3

Autosampler Location: 8

Sample ID: CRI

Date Collected: 8/24/2006 10:18:24 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution: 1X

Sample Prep Vol:

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Conc. Units	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1688859.7	97.29 %	%	0.161			0.17%
ScR 361.383	204573.3	98.22 %	%	0.410			0.42%
Ag 328.068†	907.2	0.00287 mg/L	mg/L	0.000254	0.00287 mg/L	0.000254	8.83%
Al 308.215†	69.5	0.05096 mg/L	mg/L	0.005589	0.05096 mg/L	0.005589	10.97%
As 188.979†	62.4	0.05966 mg/L	mg/L	0.001633	0.05966 mg/L	0.001633	2.74%
B 249.677†	67.3	0.02282 mg/L	mg/L	0.000355	0.02282 mg/L	0.000355	1.56%
Ba 233.527†	4.9	0.00145 mg/L	mg/L	0.001504	0.00145 mg/L	0.001504	103.83%
Be 313.042†	613.3	0.00099 mg/L	mg/L	0.000058	0.00099 mg/L	0.000058	5.82%
Ca 317.933†	1199.3	0.05189 mg/L	mg/L	0.001119	0.05189 mg/L	0.001119	2.16%
Cd 228.802†	77.8	0.00221 mg/L	mg/L	0.000046	0.00221 mg/L	0.000046	2.08%
Co 228.616†	120.8	0.00304 mg/L	mg/L	0.000086	0.00304 mg/L	0.000086	2.82%
Cr 267.716†	54.0	0.00640 mg/L	mg/L	0.000309	0.00640 mg/L	0.000309	4.83%
Cu 324.752†	632.2	0.00234 mg/L	mg/L	0.000053	0.00234 mg/L	0.000053	2.28%
Fe 273.955†	51.9	0.05586 mg/L	mg/L	0.003012	0.05586 mg/L	0.003012	5.39%
K 766.490†	859.0	0.5551 mg/L	mg/L	0.03881	0.5551 mg/L	0.03881	6.99%
Mg 279.077†	79.1	0.04998 mg/L	mg/L	0.023191	0.04998 mg/L	0.023191	46.40%
Mn 257.610†	30.9	0.00114 mg/L	mg/L	0.000116	0.00114 mg/L	0.000116	10.15%
Mo 202.031†	56.9	0.00521 mg/L	mg/L	0.000318	0.00521 mg/L	0.000318	6.10%
Na 589.592†	3276.0	0.5518 mg/L	mg/L	0.00148	0.5518 mg/L	0.00148	0.27%
Na 330.237†	17.3	0.6117 mg/L	mg/L	0.90367	0.6117 mg/L	0.90367	147.74%
Ni 231.604†	17.5	0.00849 mg/L	mg/L	0.001500	0.00849 mg/L	0.001500	17.66%
Pb 220.353†	196.2	0.02007 mg/L	mg/L	0.000543	0.02007 mg/L	0.000543	2.71%
Sb 206.836†	62.3	0.05487 mg/L	mg/L	0.000761	0.05487 mg/L	0.000761	1.39%
Se 196.026†	93.4	0.05827 mg/L	mg/L	0.001578	0.05827 mg/L	0.001578	2.71%
Si 288.158†	144.3	0.1012 mg/L	mg/L	0.00615	0.1012 mg/L	0.00615	6.08%
Sn 189.927†	53.1	0.01088 mg/L	mg/L	0.000651	0.01088 mg/L	0.000651	5.98%
Sr 421.552†	682.8	0.00101 mg/L	mg/L	0.000022	0.00101 mg/L	0.000022	2.20%
Ti 334.903†	122.7	0.00468 mg/L	mg/L	0.000746	0.00468 mg/L	0.000746	15.95%
Tl 190.801†	65.8	0.05646 mg/L	mg/L	0.001715	0.05646 mg/L	0.001715	3.04%
V 292.402†	917.2	0.00313 mg/L	mg/L	0.000009	0.00313 mg/L	0.000009	0.27%
Zn 206.200†	6.6	0.00623 mg/L	mg/L	0.001767	0.00623 mg/L	0.001767	28.36%

Sequence No.: 4
 Sample ID: ICSA
 Analyst:
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 9
 Date Collected: 8/24/2006 10:24:46 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte Back Pressure Flow
 All 167.0 kPa 0.50 L/min

Mean Data: ICSA

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1589219.3	91.55	%	0.497				0.54%
ScR 361.383	202099.7	97.03	%	0.051				0.05%
Ag 328.068†	-2899.7	-0.00101	mg/L	0.000103	-0.00101	mg/L	0.000103	10.18%
Al 308.215†	271874.8	199.9	mg/L	0.17	199.9	mg/L	0.17	0.09%
As 188.979†	37.3	0.01212	mg/L	0.005118	0.01212	mg/L	0.005118	42.24%
B 249.677†	-2.6	-0.00090	mg/L	0.003219	-0.00090	mg/L	0.003219	355.99%
Ba 233.527†	44.2	-0.00101	mg/L	0.000228	-0.00101	mg/L	0.000228	22.65%
Be 313.042†	3.0	0.00000	mg/L	0.000029	0.00000	mg/L	0.000029	>999.9%
Ca 317.933†	2296699.3	99.37	mg/L	0.045	99.37	mg/L	0.045	0.05%
Cd 228.802†	44.0	-0.00073	mg/L	0.000189	-0.00073	mg/L	0.000189	25.73%
Co 228.616†	-35.2	-0.00209	mg/L	0.000323	-0.00209	mg/L	0.000323	15.44%
Cr 267.716†	-26.1	-0.00209	mg/L	0.000757	-0.00209	mg/L	0.000757	36.18%
Cu 324.752†	-5119.2	-0.00119	mg/L	0.000172	-0.00119	mg/L	0.000172	14.48%
Fe 273.955†	182410.2	196.3	mg/L	0.43	196.3	mg/L	0.43	0.22%
K 766.490†	144.4	0.09329	mg/L	0.067420	0.09329	mg/L	0.067420	72.27%
Mg 279.077†	159967.6	100.9	mg/L	0.13	100.9	mg/L	0.13	0.13%
Mn 257.610†	106.3	0.00020	mg/L	0.000317	0.00020	mg/L	0.000317	156.79%
Mo 202.031†	25.1	0.00433	mg/L	0.000262	0.00433	mg/L	0.000262	6.06%
Na 589.592†	660.3	0.1112	mg/L	0.01387	0.1112	mg/L	0.01387	12.47%
Na 330.237†	36.4	0.4025	mg/L	0.64934	0.4025	mg/L	0.64934	161.34%
Ni 231.604†	-10.6	-0.00512	mg/L	0.002603	-0.00512	mg/L	0.002603	50.84%
Pb 220.353†	-373.7	0.00029	mg/L	0.000522	0.00029	mg/L	0.000522	177.94%
Sb 206.836†	26.8	0.02339	mg/L	0.005085	0.02339	mg/L	0.005085	21.74%
Se 196.026†	-109.5	-0.06832	mg/L	0.006779	-0.06832	mg/L	0.006779	9.92%
Si 288.158†	44.5	0.03115	mg/L	0.006462	0.03115	mg/L	0.006462	20.74%
Sn 189.927†	-84.5	-0.00220	mg/L	0.001419	-0.00220	mg/L	0.001419	64.61%
Sr 421.552†	751.8	0.00111	mg/L	0.000033	0.00111	mg/L	0.000033	2.95%
Ti 334.903†	161.0	0.00615	mg/L	0.000921	0.00615	mg/L	0.000921	14.99%
Tl 190.801†	-31.0	-0.02658	mg/L	0.007963	-0.02658	mg/L	0.007963	29.95%
V 292.402†	371.2	0.00123	mg/L	0.000081	0.00123	mg/L	0.000081	6.57%
Zn 206.200†	0.6	-0.00339	mg/L	0.002839	-0.00339	mg/L	0.002839	83.80%

Sequence No.: 5
 Sample ID: ICSAB
 Analyst:
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 10
 Date Collected: 8/24/2006 10:31:15 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	167.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1590506.8		91.62 %	0.086				0.09%
ScR 361.383	203961.9		97.93 %	0.097				0.10%
Ag 328.068†	338920.1		1.080 mg/L	0.0005	1.080 mg/L	0.0005		0.05%
Al 308.215†	271965.9		199.9 mg/L	0.34	199.9 mg/L	0.34		0.17%
As 188.979†	1126.3		1.053 mg/L	0.0052	1.053 mg/L	0.0052		0.50%
B 249.677†	-12.6	-0.00255	mg/L	0.001727	-0.00255 mg/L	0.001727		67.80%
Ba 233.527†	3352.8		0.9797 mg/L	0.00352	0.9797 mg/L	0.00352		0.36%
Be 313.042†	645820.7		1.044 mg/L	0.0013	1.044 mg/L	0.0013		0.12%
Ca 317.933†	2303255.7		99.66 mg/L	0.181	99.66 mg/L	0.181		0.18%
Cd 228.802†	35037.1		1.029 mg/L	0.0018	1.029 mg/L	0.0018		0.17%
Co 228.616†	38344.4		0.9642 mg/L	0.00095	0.9642 mg/L	0.00095		0.10%
Cr 267.716†	8077.3		0.9570 mg/L	0.00260	0.9570 mg/L	0.00260		0.27%
Cu 324.752†	286483.6		1.076 mg/L	0.0007	1.076 mg/L	0.0007		0.07%
Fe 273.955†	184200.2		198.2 mg/L	0.43	198.2 mg/L	0.43		0.22%
K 766.490†	292.0		0.1887 mg/L	0.01743	0.1887 mg/L	0.01743		9.24%
Mg 279.077†	160879.5		101.5 mg/L	0.15	101.5 mg/L	0.15		0.15%
Mn 257.610†	25637.0		0.9437 mg/L	0.00291	0.9437 mg/L	0.00291		0.31%
Mo 202.031†	28.4	0.00462	mg/L	0.000230	0.00462 mg/L	0.000230		4.97%
Na 589.592†	688.1		0.1159 mg/L	0.01134	0.1159 mg/L	0.01134		9.78%
Na 330.237†	43.5		0.4091 mg/L	0.31275	0.4091 mg/L	0.31275		76.45%
Ni 231.604†	1968.9		0.9553 mg/L	0.00388	0.9553 mg/L	0.00388		0.41%
Pb 220.353†	9060.8		0.9656 mg/L	0.00342	0.9656 mg/L	0.00342		0.35%
Sb 206.836†	1230.5		1.070 mg/L	0.0027	1.070 mg/L	0.0027		0.25%
Se 196.026†	1573.1		0.9808 mg/L	0.00704	0.9808 mg/L	0.00704		0.72%
Si 288.158†	39.9		0.02995 mg/L	0.009006	0.02995 mg/L	0.009006		30.07%
Sn 189.927†	-95.3	-0.00236	mg/L	0.001386	-0.00236 mg/L	0.001386		58.70%
Sr 421.552†	969.5		0.00143 mg/L	0.000107	0.00143 mg/L	0.000107		7.49%
Ti 334.903†	147.1		0.00541 mg/L	0.000489	0.00541 mg/L	0.000489		9.03%
Tl 190.801†	1119.9		0.9546 mg/L	0.00440	0.9546 mg/L	0.00440		0.46%
V 292.402†	309004.2		1.047 mg/L	0.0002	1.047 mg/L	0.0002		0.02%
Zn 206.200†	1013.0		0.9526 mg/L	0.00505	0.9526 mg/L	0.00505		0.53%

Sequence No.: 6

Sample ID: CV-222222

Analyst:

Initial Sample Wt: 8/24/06 JIB

Dilution: 1X

Autosampler Location: 7

Date Collected: 8/24/2006 10:37:33 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1645924.2	94.81 %		0.528			0.56%
ScR 361.383	200144.9	96.09 %		5.038			5.24%
Ag 328.068†	319066.4	1.009 mg/L		0.0018	1.009 mg/L	0.0018	0.17%
Al 308.215†	2869.2	2.072 mg/L		0.1039	2.072 mg/L	0.1039	5.01%
As 188.979†	2126.7	2.030 mg/L		0.0215	2.030 mg/L	0.0215	1.06%
B 249.677†	2940.2	0.9995 mg/L		0.05520	0.9995 mg/L	0.05520	5.52%
Ba 233.527†	3340.9	0.9903 mg/L		0.05393	0.9903 mg/L	0.05393	5.45%
Be 313.042†	628299.3	1.016 mg/L		0.0489	1.016 mg/L	0.0489	4.82%
Ca 317.933†	49006.1	2.120 mg/L		0.1056	2.120 mg/L	0.1056	4.98%
Cd 228.802†	34952.4	1.027 mg/L		0.0020	1.027 mg/L	0.0020	0.20%
Co 228.616†	39556.0	0.9945 mg/L		0.00347	0.9945 mg/L	0.00347	0.35%
Cr 267.716†	8238.8	0.9747 mg/L		0.05442	0.9747 mg/L	0.05442	5.58%
Cu 324.752†	284753.0	1.051 mg/L		0.0013	1.051 mg/L	0.0013	0.12%
Fe 273.955†	1932.9	2.078 mg/L		0.1087	2.078 mg/L	0.1087	5.23%
K 766.490†	31615.5	20.43 mg/L		1.139	20.43 mg/L	1.139	5.57%
Mg 279.077†	3344.4	2.117 mg/L		0.1023	2.117 mg/L	0.1023	4.83%
Mn 257.610†	25944.3	0.9590 mg/L		0.05165	0.9590 mg/L	0.05165	5.39%
Mo 202.031†	10745.6	0.9836 mg/L		0.01266	0.9836 mg/L	0.01266	1.29%
Na 589.592†	306772.2	51.67 mg/L		2.726	51.67 mg/L	2.726	5.28%
Na 330.237†	1449.4	51.39 mg/L		2.815	51.39 mg/L	2.815	5.48%
Ni 231.604†	2097.6	1.018 mg/L		0.0543	1.018 mg/L	0.0543	5.34%
Pb 220.353†	19306.4	1.975 mg/L		0.0239	1.975 mg/L	0.0239	1.21%
Sb 206.836†	2414.6	2.124 mg/L		0.0230	2.124 mg/L	0.0230	1.08%
Se 196.026†	3274.1	2.042 mg/L		0.0144	2.042 mg/L	0.0144	0.70%
Si 288.158†	3007.5	2.110 mg/L		0.1138	2.110 mg/L	0.1138	5.39%
Sn 189.927†	4730.6	0.9631 mg/L		0.00973	0.9631 mg/L	0.00973	1.01%
Sr 421.552†	692471.3	1.020 mg/L		0.0512	1.020 mg/L	0.0512	5.02%
Ti 334.903†	27282.6	1.041 mg/L		0.0506	1.041 mg/L	0.0506	4.86%
Tl 190.801†	2337.6	2.002 mg/L		0.0141	2.002 mg/L	0.0141	0.70%
V 292.402†	300326.4	1.018 mg/L		0.0016	1.018 mg/L	0.0016	0.15%
Zn 206.200†	1085.0	1.024 mg/L		0.0549	1.024 mg/L	0.0549	5.36%

User canceled analysis.

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Analysis Begun

Start Time: 8/24/2006 10:45:09 AM

Plasma On Time: 8/24/2006 7:57:55 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0824.sif

Batch ID:

Results Data Set: PE060824

Results Library: C:\pe\Administrator\Results\Results.mdb

=====
Sequence No.: 6

Autosampler Location: 7

Sample ID: CV \

Date Collected: 8/24/2006 10:45:09 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution: 1X

Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1653118.1	95.23 %	0.370			0.39%
ScR 361.383	206450.1	99.12 %	0.795			0.80%
Ag 328.068†	318004.3	1.006 mg/L	0.0031	1.006 mg/L	0.0031	0.31%
Al 308.215†	2762.5	1.994 mg/L	0.0176	1.994 mg/L	0.0176	0.88%
As 188.979†	2098.1	2.002 mg/L	0.0105	2.002 mg/L	0.0105	0.52%
B 249.677†	2866.2	0.9743 mg/L	0.00323	0.9743 mg/L	0.00323	0.33%
Ba 233.527†	3238.8	0.9601 mg/L	0.00661	0.9601 mg/L	0.00661	0.69%
Be 313.042†	608121.3	0.9832 mg/L	0.00418	0.9832 mg/L	0.00418	0.43%
Ca 317.933†	47403.0	2.051 mg/L	0.0087	2.051 mg/L	0.0087	0.43%
Cd 228.802†	34814.7	1.023 mg/L	0.0030	1.023 mg/L	0.0030	0.30%
Co 228.616†	39477.4	0.9926 mg/L	0.00573	0.9926 mg/L	0.00573	0.58%
Cr 267.716†	7993.3	0.9457 mg/L	0.00820	0.9457 mg/L	0.00820	0.87%
Cu 324.752†	283932.8	1.048 mg/L	0.0019	1.048 mg/L	0.0019	0.18%
Fe 273.955†	1876.8	2.017 mg/L	0.0139	2.017 mg/L	0.0139	0.69%
K 766.490†	30506.9	19.72 mg/L	0.104	19.72 mg/L	0.104	0.53%
Mg 279.077†	3241.5	2.052 mg/L	0.0156	2.052 mg/L	0.0156	0.76%
Mn 257.610†	25154.3	0.9298 mg/L	0.00559	0.9298 mg/L	0.00559	0.60%
Mo 202.031†	10668.8	0.9766 mg/L	0.00400	0.9766 mg/L	0.00400	0.41%
Na 589.592†	295958.1	49.85 mg/L	0.198	49.85 mg/L	0.198	0.40%
Na 330.237†	1417.5	50.26 mg/L	0.286	50.26 mg/L	0.286	0.57%
Ni 231.604†	2029.4	0.9852 mg/L	0.00553	0.9852 mg/L	0.00553	0.56%
Pb 220.353†	19123.7	1.956 mg/L	0.0106	1.956 mg/L	0.0106	0.54%
Sb 206.836†	2387.2	2.100 mg/L	0.0065	2.100 mg/L	0.0065	0.31%
Se 196.026†	3250.6	2.028 mg/L	0.0108	2.028 mg/L	0.0108	0.53%
Si 288.158†	2919.5	2.048 mg/L	0.0157	2.048 mg/L	0.0157	0.77%
Sn 189.927†	4689.7	0.9548 mg/L	0.00543	0.9548 mg/L	0.00543	0.57%
Sr 421.552†	668620.9	0.9848 mg/L	0.00490	0.9848 mg/L	0.00490	0.50%
Ti 334.903†	26323.1	1.004 mg/L	0.0043	1.004 mg/L	0.0043	0.43%
Tl 190.801†	2319.8	1.987 mg/L	0.0033	1.987 mg/L	0.0033	0.17%
V 292.402†	299152.7	1.014 mg/L	0.0035	1.014 mg/L	0.0035	0.34%
Zn 206.200†	1052.6	0.9939 mg/L	0.00481	0.9939 mg/L	0.00481	0.48%

Sequence No.: 7
Sample ID: CB
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/24/2006 10:51:21 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte Back Pressure Flow
All 168.0 kPa 0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1703571.3	98.13 %	1.410			1.44%
ScR 361.383	208851.3	100.3 %	1.45			1.45%
Ag 328.068†	-14.1	-0.00004 mg/L	0.000251	-0.00004 mg/L	0.000251	561.30%
Al 308.215†	40.4	0.02969 mg/L	0.008056	0.02969 mg/L	0.008056	27.14%
As 188.979†	6.5	0.00619 mg/L	0.002569	0.00619 mg/L	0.002569	41.50%
B 249.677†	18.8	0.00637 mg/L	0.001454	0.00637 mg/L	0.001454	22.84%
Ba 233.527†	-1.2	-0.00036 mg/L	0.000669	-0.00036 mg/L	0.000669	184.20%
Be 313.042†	-19.2	-0.00003 mg/L	0.000039	-0.00003 mg/L	0.000039	124.57%
Ca 317.933†	-17.4	-0.00075 mg/L	0.002745	-0.00075 mg/L	0.002745	363.77%
Cd 228.802†	11.3	0.00032 mg/L	0.000066	0.00032 mg/L	0.000066	20.34%
Co 228.616†	2.4	0.00006 mg/L	0.000258	0.00006 mg/L	0.000258	423.87%
Cr 267.716†	15.8	0.00187 mg/L	0.000947	0.00187 mg/L	0.000947	50.65%
Cu 324.752†	23.0	0.00008 mg/L	0.000108	0.00008 mg/L	0.000108	127.07%
Fe 273.955†	1.1	0.00114 mg/L	0.002479	0.00114 mg/L	0.002479	216.86%
K 766.490†	51.4	0.03323 mg/L	0.040873	0.03323 mg/L	0.040873	122.99%
Mg 279.077†	-0.6	-0.00035 mg/L	0.011431	-0.00035 mg/L	0.011431	>999.9%
Mn 257.610†	8.2	0.00030 mg/L	0.000032	0.00030 mg/L	0.000032	10.55%
Mo 202.031†	1.7	0.00016 mg/L	0.000336	0.00016 mg/L	0.000336	215.26%
Na 589.592†	128.9	0.02170 mg/L	0.007144	0.02170 mg/L	0.007144	32.92%
Na 330.237†	-0.4	-0.01643 mg/L	0.768755	-0.01643 mg/L	0.768755	>999.9%
Ni 231.604†	-1.4	-0.00069 mg/L	0.001965	-0.00069 mg/L	0.001965	284.25%
Pb 220.353†	2.9	0.00031 mg/L	0.000358	0.00031 mg/L	0.000358	116.57%
Sb 206.836†	0.4	0.00039 mg/L	0.002089	0.00039 mg/L	0.002089	541.03%
Se 196.026†	5.4	0.00340 mg/L	0.004486	0.00340 mg/L	0.004486	132.01%
Si 288.158†	0.4	0.00030 mg/L	0.002795	0.00030 mg/L	0.002795	923.14%
Sn 189.927†	13.3	0.00269 mg/L	0.000691	0.00269 mg/L	0.000691	25.67%
Sr 421.552†	23.1	0.00003 mg/L	0.000063	0.00003 mg/L	0.000063	185.87%
Ti 334.903†	8.6	0.00033 mg/L	0.000588	0.00033 mg/L	0.000588	179.03%
Tl 190.801†	10.5	0.00896 mg/L	0.002733	0.00896 mg/L	0.002733	30.48%
V 292.402†	51.2	0.00019 mg/L	0.000101	0.00019 mg/L	0.000101	54.41%
Zn 206.200†	3.0	0.00282 mg/L	0.003005	0.00282 mg/L	0.003005	106.61%

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Analysis Begun

Start Time: 8/24/2006 10:57:16 AM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101

Plasma On Time: 8/24/2006 7:57:55 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0824.sif
Batch ID:
Results Data Set: PE060824
Results Library: C:\pe\Administrator\Results\Results.mdb

=====
Sequence No.: 1
Sample ID: JT79 D SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 5X
Autosampler Location: 21
Date Collected: 8/24/2006 10:57:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT79 D SWC
Analyte Back Pressure Flow
All 167.0 kPa 0.50 L/min

Mean Data: JT79 D SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1686040.4		97.12 %	0.471				0.49%
ScR 361.383	214042.1		102.8 %	0.98				0.95%
Ag 328.068†	-1516.9	-0.00026	mg/L	0.000158	-0.00128	mg/L	0.000790	61.62%
Al 308.215†	114906.4	84.46	mg/L	0.339	422.3	mg/L	1.70	0.40%
As 188.979†	55.3	0.02883	mg/L	0.005992	0.1441	mg/L	0.02996	20.79%
B 249.677†	55.3	0.01726	mg/L	0.002000	0.08629	mg/L	0.009999	11.59%
Ba 233.527†	1426.3	0.4145	mg/L	0.00524	2.072	mg/L	0.0262	1.26%
Be 313.042†	1075.3	0.00129	mg/L	0.000058	0.00646	mg/L	0.000291	4.50%
Ca 317.933†	778817.3	33.70	mg/L	0.125	168.5	mg/L	0.63	0.37%
Cd 228.802†	43.2	0.00003	mg/L	0.000121	0.00014	mg/L	0.000603	431.78%
Co 228.616†	2556.1	0.05324	mg/L	0.000535	0.2662	mg/L	0.00268	1.01%
Cr 267.716†	1493.8	0.1786	mg/L	0.00225	0.8930	mg/L	0.01127	1.26%
Cu 324.752†	42325.4	0.1658	mg/L	0.00125	0.8290	mg/L	0.00626	0.76%
Fe 273.955†	108451.1	116.7	mg/L	0.14	583.5	mg/L	0.71	0.12%
K 766.490†	5150.1	3.328	mg/L	0.0390	16.64	mg/L	0.195	1.17%
Mg 279.077†	64774.5	40.85	mg/L	0.089	204.2	mg/L	0.45	0.22%
Mn 257.610†	66562.4	2.458	mg/L	0.0061	12.29	mg/L	0.030	0.25%
Mo 202.031†	64.2	0.00678	mg/L	0.000076	0.03389	mg/L	0.000378	1.12%
Na 589.592†	5609.9	0.9449	mg/L	0.00662	4.724	mg/L	0.0331	0.70%
Na 330.237†	-9.6	0.7102	mg/L	0.59972	3.551	mg/L	2.9986	84.45%
Ni 231.604†	400.3	0.1941	mg/L	0.00336	0.9705	mg/L	0.01679	1.73%
Pb 220.353†	42.8	0.02088	mg/L	0.000586	0.1044	mg/L	0.00293	2.81%
Sb 206.836†	8.2	0.01017	mg/L	0.000670	0.05085	mg/L	0.003349	6.59%
Se 196.026†	-52.2	-0.03534	mg/L	0.004630	-0.1767	mg/L	0.02315	13.10%
Si 288.158†	2508.0	1.758	mg/L	0.0051	8.790	mg/L	0.0253	0.29%
Sn 189.927†	-27.0	-0.00169	mg/L	0.001308	-0.00846	mg/L	0.006540	77.31%
Sr 421.552†	103318.5	0.1522	mg/L	0.00061	0.7609	mg/L	0.00306	0.40%
Ti 334.903†	147438.3	5.631	mg/L	0.0218	28.15	mg/L	0.109	0.39%
Tl 190.801†	-10.5	-0.01482	mg/L	0.002406	-0.07411	mg/L	0.012028	16.23%
V 292.402†	85311.3	0.2862	mg/L	0.00258	1.431	mg/L	0.0129	0.90%
Zn 206.200†	247.3	0.2310	mg/L	0.00289	1.155	mg/L	0.0144	1.25%

Sequence No.: 2
Sample ID: JT79 E SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 22
Date Collected: 8/24/2006 11:03:42 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT79 E SWC

Analyte Back Pressure Flow
All 168.0 kPa 0.50 L/min

Mean Data: JT79 E SWC

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1691291.5	97.43 %	0.519			0.53%
ScR 361.383	212872.6	102.2 %	1.16			1.13%
Ag 328.068†	-1784.2	-0.00024 mg/L	0.000154	-0.00121 mg/L	0.000769	63.73%
Al 308.215†	116983.5	85.99 mg/L	0.240	430.0 mg/L	1.20	0.28%
As 188.979†	53.9	0.02655 mg/L	0.002226	0.1328 mg/L	0.01113	8.38%
B 249.677†	45.8	0.01401 mg/L	0.001571	0.07003 mg/L	0.007856	11.22%
Ba 233.527†	1286.2	0.3714 mg/L	0.00731	1.857 mg/L	0.0366	1.97%
Be 313.042†	1166.9	0.00140 mg/L	0.000026	0.00701 mg/L	0.000128	1.83%
Ca 317.933†	830275.7	35.92 mg/L	0.092	179.6 mg/L	0.46	0.25%
Cd 228.802†	46.1	-0.00009 mg/L	0.000064	-0.00044 mg/L	0.000320	73.16%
Co 228.616†	2876.2	0.06038 mg/L	0.000330	0.3019 mg/L	0.00165	0.55%
Cr 267.716†	1711.7	0.2045 mg/L	0.00174	1.023 mg/L	0.0087	0.85%
Cu 324.752†	46328.7	0.1825 mg/L	0.00056	0.9123 mg/L	0.00278	0.30%
Fe 273.955†	128124.3	137.9 mg/L	0.76	689.4 mg/L	3.81	0.55%
K 766.490†	5100.5	3.296 mg/L	0.0458	16.48 mg/L	0.229	1.39%
Mg 279.077†	80834.8	50.98 mg/L	0.057	254.9 mg/L	0.29	0.11%
Mn 257.610†	71117.6	2.626 mg/L	0.0106	13.13 mg/L	0.053	0.40%
Mo 202.031†	37.6	0.00414 mg/L	0.000123	0.02069 mg/L	0.000613	2.96%
Na 589.592†	4033.0	0.6793 mg/L	0.00889	3.396 mg/L	0.0445	1.31%
Na 330.237†	-4.9	0.9141 mg/L	0.24351	4.570 mg/L	1.2175	26.64%
Ni 231.604†	485.3	0.2353 mg/L	0.00446	1.177 mg/L	0.0223	1.90%
Pb 220.353†	14.0	0.01828 mg/L	0.000985	0.09138 mg/L	0.004923	5.39%
Sb 206.836†	14.2	0.01538 mg/L	0.002578	0.07689 mg/L	0.012889	16.76%
Se 196.026†	-64.1	-0.04301 mg/L	0.005535	-0.2151 mg/L	0.02767	12.87%
Si 288.158†	1457.4	1.022 mg/L	0.0149	5.109 mg/L	0.0747	1.46%
Sn 189.927†	-36.6	-0.00357 mg/L	0.000652	-0.01783 mg/L	0.003259	18.28%
Sr 421.552†	77865.8	0.1147 mg/L	0.00040	0.5735 mg/L	0.00201	0.35%
Ti 334.903†	154409.0	5.897 mg/L	0.0188	29.48 mg/L	0.094	0.32%
Tl 190.801†	1.4	-0.00498 mg/L	0.001123	-0.02488 mg/L	0.005616	22.57%
V 292.402†	92476.9	0.3104 mg/L	0.00094	1.552 mg/L	0.0047	0.30%
Zn 206.200†	286.0	0.2670 mg/L	0.00376	1.335 mg/L	0.0188	1.41%

Sequence No.: 3
 Sample ID: JT79 F SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 5X

Autosampler Location: 23
 Date Collected: 8/24/2006 11:09:54 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT79 F SWC

Analyte Back Pressure Flow
 All 168.0 kPa 0.50 L/min

Mean Data: JT79 F SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1699631.2	97.91 %		0.449			0.46%
ScR 361.383	210809.5	101.2 %		1.48			1.47%
Ag 328.068†	-1802.9	-0.00024 mg/L		0.000101	-0.00120 mg/L	0.000506	42.04%
Al 308.215†	148560.1	109.2 mg/L		0.34	546.0 mg/L	1.70	0.31%
As 188.979†	72.0	0.03964 mg/L		0.009444	0.1982 mg/L	0.04722	23.83%
B 249.677†	46.2	0.01402 mg/L		0.000569	0.07009 mg/L	0.002844	4.06%
Ba 233.527†	2049.9	0.5975 mg/L		0.00747	2.988 mg/L	0.0373	1.25%
Be 313.042†	1370.3	0.00171 mg/L		0.000027	0.00855 mg/L	0.000137	1.60%
Ca 317.933†	638017.5	27.61 mg/L		0.016	138.0 mg/L	0.08	0.06%
Cd 228.802†	51.5	0.00001 mg/L		0.000217	0.00003 mg/L	0.001083	>999.9%
Co 228.616†	3321.3	0.07015 mg/L		0.000295	0.3508 mg/L	0.00147	0.42%
Cr 267.716†	2271.6	0.2707 mg/L		0.00204	1.353 mg/L	0.0102	0.75%
Cu 324.752†	67465.6	0.2607 mg/L		0.00024	1.304 mg/L	0.0012	0.09%
Fe 273.955†	132045.5	142.1 mg/L		0.70	710.5 mg/L	3.50	0.49%
K 766.490†	6092.6	3.937 mg/L		0.0451	19.69 mg/L	0.226	1.15%
Mg 279.077†	80908.3	51.03 mg/L		0.137	255.1 mg/L	0.69	0.27%
Mn 257.610†	91127.1	3.365 mg/L		0.0117	16.83 mg/L	0.059	0.35%
Mo 202.031†	33.9	0.00431 mg/L		0.000342	0.02155 mg/L	0.001712	7.95%
Na 589.592†	3552.4	0.5983 mg/L		0.00551	2.992 mg/L	0.0276	0.92%
Na 330.237†	-28.6	0.3807 mg/L		0.10437	1.903 mg/L	0.5218	27.42%
Ni 231.604†	639.5	0.3101 mg/L		0.00476	1.550 mg/L	0.0238	1.54%
Pb 220.353†	137.1	0.03540 mg/L		0.000187	0.1770 mg/L	0.00094	0.53%
Sb 206.836†	8.6	0.01031 mg/L		0.002738	0.05156 mg/L	0.013688	26.55%
Se 196.026†	-59.1	-0.04072 mg/L		0.006301	-0.2036 mg/L	0.03151	15.48%
Si 288.158†	1998.2	1.401 mg/L		0.0182	7.005 mg/L	0.0912	1.30%
Sn 189.927†	-22.8	-0.00245 mg/L		0.001565	-0.01224 mg/L	0.007825	63.91%
Sr 421.552†	95108.1	0.1401 mg/L		0.00048	0.7004 mg/L	0.00242	0.35%
Ti 334.903†	179762.1	6.865 mg/L		0.0182	34.32 mg/L	0.091	0.26%
Tl 190.801†	-10.9	-0.01650 mg/L		0.002164	-0.08252 mg/L	0.010822	13.11%
V 292.402†	96480.2	0.3240 mg/L		0.00013	1.620 mg/L	0.0007	0.04%
Zn 206.200†	338.1	0.3160 mg/L		0.00510	1.580 mg/L	0.0255	1.61%

User canceled analysis.

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Analysis BegunStart Time: 8/24/2006 11:18:47 AM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Plasma On Time: 8/24/2006 7:57:55 AM
Technique: ICP Continuous

Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0824.sif

Batch ID:

Results Data Set: PE060824

Results Library: C:\pe\Administrator\Results\Results.mdb

=====
Sequence No.: 4
Sample ID: CV 7

Analyst: JLB

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 7

Date Collected: 8/24/2006 11:18:47 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1648282.0	94.95 %	0.665			0.70%
ScR 361.383	206546.2	99.17 %	0.519			0.52%
Ag 328.068†	319925.7	1.012 mg/L	0.0029	1.012 mg/L	0.0029	0.28%
Al 308.215†	2774.6	2.003 mg/L	0.0143	2.003 mg/L	0.0143	0.71%
As 188.979†	2130.5	2.033 mg/L	0.0148	2.033 mg/L	0.0148	0.73%
B 249.677†	2858.1	0.9716 mg/L	0.00798	0.9716 mg/L	0.00798	0.82%
Ba 233.527†	3253.8	0.9645 mg/L	0.00559	0.9645 mg/L	0.00559	0.58%
Be 313.042†	611515.8	0.9887 mg/L	0.00160	0.9887 mg/L	0.00160	0.16%
Ca 317.933†	47717.5	2.065 mg/L	0.0044	2.065 mg/L	0.0044	0.21%
Cd 228.802†	35091.2	1.031 mg/L	0.0017	1.031 mg/L	0.0017	0.16%
Co 228.616†	39871.5	1.003 mg/L	0.0027	1.003 mg/L	0.0027	0.27%
Cr 267.716†	8012.2	0.9479 mg/L	0.00442	0.9479 mg/L	0.00442	0.47%
Cu 324.752†	285265.5	1.053 mg/L	0.0033	1.053 mg/L	0.0033	0.31%
Fe 273.955†	1869.9	2.010 mg/L	0.0117	2.010 mg/L	0.0117	0.58%
K 766.490†	30546.0	19.74 mg/L	0.082	19.74 mg/L	0.082	0.41%
Mg 279.077†	3278.1	2.076 mg/L	0.0109	2.076 mg/L	0.0109	0.53%
Mn 257.610†	25195.2	0.9313 mg/L	0.00468	0.9313 mg/L	0.00468	0.50%
Mo 202.031†	10729.8	0.9822 mg/L	0.00831	0.9822 mg/L	0.00831	0.85%
Na 589.592†	295403.2	49.75 mg/L	0.032	49.75 mg/L	0.032	0.06%
Na 330.237†	1413.6	50.12 mg/L	0.874	50.12 mg/L	0.874	1.74%
Ni 231.604†	2034.9	0.9879 mg/L	0.00183	0.9879 mg/L	0.00183	0.19%
Pb 220.353†	19320.5	1.976 mg/L	0.0151	1.976 mg/L	0.0151	0.76%
Sb 206.836†	2402.5	2.113 mg/L	0.0184	2.113 mg/L	0.0184	0.87%
Se 196.026†	3305.6	2.062 mg/L	0.0118	2.062 mg/L	0.0118	0.57%
Si 288.158†	2932.5	2.057 mg/L	0.0178	2.057 mg/L	0.0178	0.87%
Sn 189.927†	4734.8	0.9639 mg/L	0.00266	0.9639 mg/L	0.00266	0.28%
Sr 421.552†	669431.6	0.9860 mg/L	0.00277	0.9860 mg/L	0.00277	0.28%
Ti 334.903†	26403.0	1.007 mg/L	0.0040	1.007 mg/L	0.0040	0.40%
Tl 190.801†	2341.3	2.005 mg/L	0.0123	2.005 mg/L	0.0123	0.61%
V 292.402†	301104.2	1.021 mg/L	0.0032	1.021 mg/L	0.0032	0.31%
Zn 206.200†	1056.3	0.9973 mg/L	0.00582	0.9973 mg/L	0.00582	0.58%

Sequence No.: 5
 Sample ID: CB 7
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/24/2006 11:24:59 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 168.0 kPa 0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1719100.7	99.03 %	0.167			0.17%
ScR 361.383	209314.3	100.5 %	0.39			0.39%
Ag 328.068†	51.6	0.00016 mg/L	0.000179	0.00016 mg/L	0.000179	109.37%
Al 308.215†	42.1	0.03092 mg/L	0.008331	0.03092 mg/L	0.008331	26.94%
As 188.979†	7.4	0.00704 mg/L	0.003715	0.00704 mg/L	0.003715	52.79%
B 249.677†	13.7	0.00464 mg/L	0.001708	0.00464 mg/L	0.001708	36.78%
Ba 233.527†	-2.4	-0.00070 mg/L	0.001970	-0.00070 mg/L	0.001970	281.49%
Be 313.042†	-27.4	-0.00004 mg/L	0.000070	-0.00004 mg/L	0.000070	157.85%
Ca 317.933†	-23.6	-0.00102 mg/L	0.000426	-0.00102 mg/L	0.000426	41.63%
Cd 228.802†	10.2	0.00029 mg/L	0.000032	0.00029 mg/L	0.000032	10.94%
Co 228.616†	4.6	0.00012 mg/L	0.000029	0.00012 mg/L	0.000029	25.30%
Cr 267.716†	7.5	0.00089 mg/L	0.000189	0.00089 mg/L	0.000189	21.19%
Cu 324.752†	81.2	0.00030 mg/L	0.000141	0.00030 mg/L	0.000141	46.97%
Fe 273.955†	4.3	0.00467 mg/L	0.002642	0.00467 mg/L	0.002642	56.59%
K 766.490†	59.0	0.03813 mg/L	0.018980	0.03813 mg/L	0.018980	49.77%
Mg 279.077†	-1.3	-0.00085 mg/L	0.011211	-0.00085 mg/L	0.011211	>999.9%
Mn 257.610†	4.5	0.00016 mg/L	0.000075	0.00016 mg/L	0.000075	45.56%
Mo 202.031†	3.0	0.00027 mg/L	0.000037	0.00027 mg/L	0.000037	13.71%
Na 589.592†	-137.3	-0.02312 mg/L	0.001259	-0.02312 mg/L	0.001259	5.44%
Na 330.237†	14.4	0.5085 mg/L	0.52395	0.5085 mg/L	0.52395	103.04%
Ni 231.604†	-2.6	-0.00127 mg/L	0.001740	-0.00127 mg/L	0.001740	136.72%
Pb 220.353†	-3.7	-0.00038 mg/L	0.000290	-0.00038 mg/L	0.000290	77.21%
Sb 206.836†	1.2	0.00110 mg/L	0.000870	0.00110 mg/L	0.000870	79.00%
Se 196.026†	3.9	0.00244 mg/L	0.001126	0.00244 mg/L	0.001126	46.21%
Si 288.158†	1.2	0.00081 mg/L	0.002537	0.00081 mg/L	0.002537	313.57%
Sn 189.927†	10.9	0.00221 mg/L	0.001127	0.00221 mg/L	0.001127	51.01%
Sr 421.552†	-53.9	-0.00008 mg/L	0.000043	-0.00008 mg/L	0.000043	53.94%
Ti 334.903†	-16.0	-0.00061 mg/L	0.001097	-0.00061 mg/L	0.001097	179.73%
Tl 190.801†	2.5	0.00214 mg/L	0.002957	0.00214 mg/L	0.002957	138.08%
V 292.402†	-1.0	0.00000 mg/L	0.000119	0.00000 mg/L	0.000119	>999.9%
Zn 206.200†	2.9	0.00271 mg/L	0.000698	0.00271 mg/L	0.000698	25.72%

Sequence No.: 6
 Sample ID: JS91 MBI SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 24
 Date Collected: 8/24/2006 11:31:22 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 MBI SWC

Analyte Back Pressure Flow
 All 168.0 kPa 0.50 L/min

Mean Data: JS91 MBI SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1715182.3		98.80 %	0.277				0.28%
ScR 361.383	210557.1		101.1 %	0.35				0.35%
Ag 328.068†	-1.9	-0.00001	mg/L	0.000274	-0.00001	mg/L	0.000548	>999.9%
Al 308.215†	97.4	0.07161	mg/L	0.014879	0.1432	mg/L	0.02976	20.78%
As 188.979†	5.9	0.00565	mg/L	0.003878	0.01130	mg/L	0.007756	68.64%
B 249.677†	18.0	0.00610	mg/L	0.001759	0.01220	mg/L	0.003518	28.85%
Ba 233.527†	-5.6	-0.00167	mg/L	0.000629	-0.00334	mg/L	0.001259	37.72%
Be 313.042†	-46.5	-0.00008	mg/L	0.000072	-0.00015	mg/L	0.000145	95.88%
Ca 317.933†	1658.2	0.07175	mg/L	0.000047	0.1435	mg/L	0.00009	0.06%
Cd 228.802†	5.6	0.00016	mg/L	0.000027	0.00032	mg/L	0.000054	17.07%
Co 228.616†	5.4	0.00013	mg/L	0.000108	0.00026	mg/L	0.000217	81.90%
Cr 267.716†	16.4	0.00194	mg/L	0.000481	0.00389	mg/L	0.000962	24.75%
Cu 324.752†	154.5	0.00057	mg/L	0.000009	0.00114	mg/L	0.000017	1.49%
Fe 273.955†	14.9	0.01604	mg/L	0.004358	0.03209	mg/L	0.008716	27.16%
K 766.490†	-0.2	-0.00014	mg/L	0.014051	-0.00027	mg/L	0.028102	>999.9%
Mg 279.077†	31.3	0.01975	mg/L	0.005732	0.03949	mg/L	0.011464	29.03%
Mn 257.610†	16.6	0.00061	mg/L	0.000245	0.00123	mg/L	0.000490	39.96%
Mo 202.031†	1.2	0.00011	mg/L	0.000113	0.00021	mg/L	0.000225	104.91%
Na 589.592†	-142.3	-0.02397	mg/L	0.004819	-0.04793	mg/L	0.009638	20.11%
Na 330.237†	-1.5	-0.06188	mg/L	0.140949	-0.1238	mg/L	0.28190	227.77%
Ni 231.604†	-2.4	-0.00117	mg/L	0.001884	-0.00235	mg/L	0.003768	160.43%
Pb 220.353†	2.5	0.00027	mg/L	0.000593	0.00055	mg/L	0.001186	216.17%
Sb 206.836†	-0.8	-0.00072	mg/L	0.001741	-0.00144	mg/L	0.003482	241.92%
Se 196.026†	4.8	0.00300	mg/L	0.004876	0.00601	mg/L	0.009753	162.39%
Si 288.158†	16.8	0.01176	mg/L	0.009317	0.02351	mg/L	0.018634	79.26%
Sn 189.927†	8.0	0.00164	mg/L	0.000930	0.00328	mg/L	0.001859	56.60%
Sr 421.552†	144.8	0.00021	mg/L	0.000165	0.00043	mg/L	0.000331	77.49%
Ti 334.903†	74.0	0.00282	mg/L	0.000459	0.00565	mg/L	0.000917	16.24%
Tl 190.801†	5.4	0.00464	mg/L	0.000940	0.00928	mg/L	0.001879	20.26%
V 292.402†	32.7	0.00012	mg/L	0.000213	0.00025	mg/L	0.000426	173.63%
Zn 206.200†	34.3	0.03242	mg/L	0.002196	0.06484	mg/L	0.004392	6.77%

Sequence No.: 7
 Sample ID: JS91 A SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 25
 Date Collected: 8/24/2006 11:37:46 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 A SWC

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: JS91 A SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1685317.0		97.08 %	0.076				0.08%
ScR 361.383	209930.5		100.8 %	0.28				0.28%
Ag 328.068†	-1868.7	-0.00021	mg/L	0.000076	-0.00042	mg/L	0.000151	35.76%
Al 308.215†	240700.7		176.9 mg/L	0.36	353.9	mg/L	0.73	0.21%
As 188.979†	98.1	0.05179	mg/L	0.001878	0.1036	mg/L	0.00376	3.63%
B 249.677†	57.5	0.01667	mg/L	0.001831	0.03333	mg/L	0.003661	10.98%
Ba 233.527†	1968.7	0.5733	mg/L	0.00164	1.147	mg/L	0.0033	0.29%
Be 313.042†	1893.4	0.00241	mg/L	0.000066	0.00483	mg/L	0.000133	2.75%
Ca 317.933†	795559.1		34.42 mg/L	0.071	68.84	mg/L	0.141	0.21%
Cd 228.802†	73.1	0.00058	mg/L	0.000107	0.00115	mg/L	0.000213	18.54%
Co 228.616†	2734.1	0.05209	mg/L	0.000167	0.1042	mg/L	0.00033	0.32%
Cr 267.716†	1531.2	0.1859	mg/L	0.00022	0.3717	mg/L	0.00044	0.12%
Cu 324.752†	30357.1	0.1234	mg/L	0.00033	0.2467	mg/L	0.00066	0.27%
Fe 273.955†	133269.8		143.4 mg/L	1.04	286.8	mg/L	2.08	0.72%
K 766.490†	5774.3	3.732	mg/L	0.0592	7.463	mg/L	0.1184	1.59%
Mg 279.077†	54854.8		34.56 mg/L	0.047	69.12	mg/L	0.093	0.14%
Mn 257.610†	65339.2		2.412 mg/L	0.0101	4.824	mg/L	0.0201	0.42%
Mo 202.031†	33.4	0.00615	mg/L	0.000400	0.01230	mg/L	0.000801	6.51%
Na 589.592†	8226.5	1.386	mg/L	0.0044	2.771	mg/L	0.0088	0.32%
Na 330.237†	-22.2	1.200	mg/L	0.6711	2.400	mg/L	1.3422	55.93%
Ni 231.604†	386.0	0.1872	mg/L	0.00131	0.3744	mg/L	0.00263	0.70%
Pb 220.353†	325.8	0.06764	mg/L	0.000386	0.1353	mg/L	0.00077	0.57%
Sb 206.836†	15.1	0.01994	mg/L	0.003137	0.03989	mg/L	0.006274	15.73%
Se 196.026†	-69.5	-0.04611	mg/L	0.007276	-0.09222	mg/L	0.014552	15.78%
Si 288.158†	1862.4	1.306	mg/L	0.0004	2.611	mg/L	0.0008	0.03%
Sn 189.927†	-26.5	-0.00204	mg/L	0.002028	-0.00408	mg/L	0.004056	99.32%
Sr 421.552†	107937.0		0.1590 mg/L	0.00052	0.3180	mg/L	0.00104	0.33%
Ti 334.903†	246488.5		9.413 mg/L	0.0207	18.83	mg/L	0.041	0.22%
Tl 190.801†	-3.0	-0.01209	mg/L	0.000643	-0.02418	mg/L	0.001286	5.32%
V 292.402†	123550.9		0.4132 mg/L	0.00069	0.8264	mg/L	0.00139	0.17%
Zn 206.200†	277.8	0.2591	mg/L	0.00361	0.5182	mg/L	0.00721	1.39%

Sequence No.: 8
 Sample ID: JS91 B SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 26
 Date Collected: 8/24/2006 11:43:58 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 B SWC

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: JS91 B SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1691674.2		97.45 %	0.374				0.38%
ScR 361.383	213342.4		102.4 %	0.40				0.39%
Ag 328.068†	-2374.1	-0.00029	mg/L	0.000117	-0.00059	mg/L	0.000234	39.96%
Al 308.215†	282577.2		207.7 mg/L	0.35	415.4	mg/L	0.70	0.17%
As 188.979†	112.5	0.05872	mg/L	0.003779	0.1174	mg/L	0.00756	6.44%
B 249.677†	62.4	0.01802	mg/L	0.002051	0.03603	mg/L	0.004101	11.38%
Ba 233.527†	2203.7	0.6401	mg/L	0.00327	1.280	mg/L	0.0065	0.51%
Be 313.042†	2301.4	0.00300	mg/L	0.000059	0.00599	mg/L	0.000118	1.97%
Ca 317.933†	1092153.9		47.25 mg/L	0.074	94.51	mg/L	0.147	0.16%
Cd 228.802†	79.8	0.00036	mg/L	0.000144	0.00072	mg/L	0.000288	40.02%
Co 228.616†	3527.7	0.06943	mg/L	0.000204	0.1389	mg/L	0.00041	0.29%
Cr 267.716†	1948.5	0.2351	mg/L	0.00124	0.4702	mg/L	0.00248	0.53%
Cu 324.752†	47551.9	0.1902	mg/L	0.00047	0.3804	mg/L	0.00094	0.25%
Fe 273.955†	170204.4		183.2 mg/L	1.26	366.3	mg/L	2.52	0.69%
K 766.490†	7927.4	5.123	mg/L	0.0366	10.25	mg/L	0.073	0.71%
Mg 279.077†	84808.1	53.46	mg/L	0.080	106.9	mg/L	0.16	0.15%
Mn 257.610†	90573.5	3.344	mg/L	0.0129	6.687	mg/L	0.0258	0.39%
Mo 202.031†	28.3	0.00592	mg/L	0.000125	0.01184	mg/L	0.000251	2.12%
Na 589.592†	13755.3	2.317	mg/L	0.0112	4.634	mg/L	0.0223	0.48%
Na 330.237†	2.5	2.259	mg/L	0.2443	4.517	mg/L	0.4887	10.82%
Ni 231.604†	538.1	0.2609	mg/L	0.00402	0.5218	mg/L	0.00804	1.54%
Pb 220.353†	159.8	0.05666	mg/L	0.000989	0.1133	mg/L	0.00198	1.74%
Sb 206.836†	19.2	0.02398	mg/L	0.002886	0.04797	mg/L	0.005772	12.03%
Se 196.026†	-82.0	-0.05499	mg/L	0.007410	-0.1100	mg/L	0.01482	13.47%
Si 288.158†	1861.4	1.305	mg/L	0.0130	2.610	mg/L	0.0259	0.99%
Sn 189.927†	-33.2	-0.00189	mg/L	0.000733	-0.00377	mg/L	0.001466	38.88%
Sr 421.552†	102438.3	0.1509	mg/L	0.00022	0.3018	mg/L	0.00043	0.14%
Ti 334.903†	280173.6		10.70 mg/L	0.023	21.40	mg/L	0.046	0.22%
Tl 190.801†	-10.5	-0.01979	mg/L	0.004398	-0.03957	mg/L	0.008796	22.23%
V 292.402†	138604.9	0.4638	mg/L	0.00023	0.9275	mg/L	0.00046	0.05%
Zn 206.200†	378.7	0.3535	mg/L	0.00264	0.7070	mg/L	0.00527	0.75%

Sequence No.: 9

Autosampler Location: 27

Sample ID: JS91 C SWC

Date Collected: 8/24/2006 11:50:11 AM

Analyst: JLB

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution: 2X

Sample Prep Vol:

Nebulizer Parameters: JS91 C SWC

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: JS91 C SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1717498.1		98.94 %	0.200				0.20%
ScR 361.383	216326.0		103.9 %	0.53				0.51%
Ag 328.068†	-2207.5	-0.00041	mg/L	0.000168	-0.00082	mg/L	0.000336	41.04%
Al 308.215†	291302.9		214.1 mg/L	0.27	428.3	mg/L	0.53	0.12%
As 188.979†	86.8	0.03404	mg/L	0.008264	0.06808	mg/L	0.016528	24.28%
B 249.677†	65.1	0.01901	mg/L	0.001674	0.03802	mg/L	0.003348	8.81%
Ba 233.527†	1718.1	0.4977	mg/L	0.00276	0.9953	mg/L	0.00552	0.55%
Be 313.042†	1790.7	0.00214	mg/L	0.000088	0.00429	mg/L	0.000176	4.10%
Ca 317.933†	988356.6		42.76 mg/L	0.065	85.53	mg/L	0.130	0.15%
Cd 228.802†	66.0	0.00020	mg/L	0.000087	0.00040	mg/L	0.000173	42.99%
Co 228.616†	3282.7	0.06405	mg/L	0.001005	0.1281	mg/L	0.00201	1.57%
Cr 267.716†	2057.5	0.2488	mg/L	0.00183	0.4976	mg/L	0.00365	0.73%
Cu 324.752†	32575.8	0.1330	mg/L	0.00029	0.2660	mg/L	0.00057	0.21%
Fe 273.955†	150399.2		161.9 mg/L	0.76	323.7	mg/L	1.52	0.47%
K 766.490†	6377.2	4.121	mg/L	0.0127	8.243	mg/L	0.0254	0.31%
Mg 279.077†	65976.5	41.58	mg/L	0.050	83.15	mg/L	0.100	0.12%
Mn 257.610†	50947.3	1.880	mg/L	0.0062	3.760	mg/L	0.0123	0.33%
Mo 202.031†	7.8	0.00447	mg/L	0.000491	0.00894	mg/L	0.000981	10.98%
Na 589.592†	10469.4	1.763	mg/L	0.0146	3.527	mg/L	0.0291	0.83%
Na 330.237†	-7.8	1.934	mg/L	0.3139	3.867	mg/L	0.6278	16.23%
Ni 231.604†	455.4	0.2208	mg/L	0.00101	0.4416	mg/L	0.00202	0.46%
Pb 220.353†	-184.3	0.02277	mg/L	0.000459	0.04555	mg/L	0.000917	2.01%
Sb 206.836†	13.7	0.01891	mg/L	0.002365	0.03781	mg/L	0.004730	12.51%
Se 196.026†	-71.9	-0.04701	mg/L	0.002587	-0.09402	mg/L	0.005175	5.50%
Si 288.158†	2102.2	1.474	mg/L	0.0150	2.948	mg/L	0.0301	1.02%
Sn 189.927†	-31.1	-0.00191	mg/L	0.000728	-0.00382	mg/L	0.001457	38.09%
Sr 421.552†	102133.6	0.1504	mg/L	0.00030	0.3009	mg/L	0.00060	0.20%
Ti 334.903†	277901.1	10.61	mg/L	0.017	21.23	mg/L	0.035	0.16%
Tl 190.801†	-10.2	-0.01955	mg/L	0.006026	-0.03910	mg/L	0.012052	30.83%
V 292.402†	143452.8	0.4800	mg/L	0.00140	0.9600	mg/L	0.00279	0.29%
Zn 206.200†	295.8	0.2757	mg/L	0.00113	0.5514	mg/L	0.00226	0.41%

Sequence No.: 10
 Sample ID: JS91 D SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 28
 Date Collected: 8/24/2006 11:56:25 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 D SWC

Analyte Back Pressure Flow
 All 168.0 kPa 0.50 L/min

Mean Data: JS91 D SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	1789695.9		103.1 %	1.28				1.24%
ScR 361.383	218864.0		105.1 %	0.66				0.63%
Ag 328.068†	-1972.8	-0.00045	mg/L	0.000134	-0.00090	mg/L	0.000268	29.65%
Al 308.215†	256413.8		188.5 mg/L	0.61	377.0	mg/L	1.21	0.32%
As 188.979†	82.5	0.03416	mg/L	0.003138	0.06832	mg/L	0.006277	9.19%
B 249.677†	41.7	0.01108	mg/L	0.002672	0.02215	mg/L	0.005344	24.12%
Ba 233.527†	1679.7	0.4876	mg/L	0.00093	0.9752	mg/L	0.00187	0.19%
Be 313.042†	2288.8	0.00304	mg/L	0.000017	0.00608	mg/L	0.000033	0.55%
Ca 317.933†	808768.6	34.99	mg/L	0.125	69.99	mg/L	0.251	0.36%
Cd 228.802†	55.4	0.00007	mg/L	0.000073	0.00014	mg/L	0.000145	105.55%
Co 228.616†	3005.2	0.05805	mg/L	0.000509	0.1161	mg/L	0.00102	0.88%
Cr 267.716†	1437.3	0.1752	mg/L	0.00120	0.3504	mg/L	0.00240	0.68%
Cu 324.752†	33917.9	0.1364	mg/L	0.00006	0.2729	mg/L	0.00011	0.04%
Fe 273.955†	133654.6	143.8	mg/L	0.57	287.7	mg/L	1.14	0.40%
K 766.490†	4899.9	3.167	mg/L	0.0197	6.333	mg/L	0.0393	0.62%
Mg 279.077†	52262.7	32.92	mg/L	0.138	65.84	mg/L	0.275	0.42%
Mn 257.610†	53884.5	1.989	mg/L	0.0066	3.977	mg/L	0.0132	0.33%
Mo 202.031†	15.9	0.00485	mg/L	0.000316	0.00970	mg/L	0.000631	6.50%
Na 589.592†	8009.5	1.349	mg/L	0.0080	2.698	mg/L	0.0159	0.59%
Na 330.237†	-27.7	1.164	mg/L	0.3201	2.329	mg/L	0.6402	27.49%
Ni 231.604†	358.4	0.1738	mg/L	0.00245	0.3476	mg/L	0.00491	1.41%
Pb 220.353†	-150.2	0.02119	mg/L	0.001781	0.04239	mg/L	0.003561	8.40%
Sb 206.836†	10.5	0.01664	mg/L	0.004721	0.03328	mg/L	0.009443	28.37%
Se 196.026†	-63.4	-0.04182	mg/L	0.007993	-0.08364	mg/L	0.015986	19.11%
Si 288.158†	1779.5	1.248	mg/L	0.0064	2.495	mg/L	0.0129	0.52%
Sn 189.927†	-23.8	-0.00148	mg/L	0.001503	-0.00295	mg/L	0.003006	101.83%
Sr 421.552†	122182.4	0.1800	mg/L	0.00052	0.3599	mg/L	0.00104	0.29%
Ti 334.903†	262784.3	10.04	mg/L	0.027	20.07	mg/L	0.055	0.27%
Tl 190.801†	-6.8	-0.01593	mg/L	0.001115	-0.03187	mg/L	0.002230	7.00%
V 292.402†	125989.3	0.4210	mg/L	0.00125	0.8419	mg/L	0.00249	0.30%
Zn 206.200†	245.3	0.2283	mg/L	0.00178	0.4566	mg/L	0.00355	0.78%

Sequence No.: 11
 Sample ID: JS91 E SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 29
 Date Collected: 8/24/2006 12:02:52 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 E SWC

Analyte Back Pressure Flow
 All 168.0 kPa 0.50 L/min

Mean Data: JS91 E SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1719477.0		99.05 %	0.510				0.51%
ScR 361.383	214469.1		103.0 %	0.61				0.59%
Ag 328.068†	-2112.8	-0.00067	mg/L	0.000180	-0.00134	mg/L	0.000359	26.81%
Al 308.215†	239739.0		176.2 mg/L	0.21	352.5	mg/L	0.41	0.12%
As 188.979†	82.8	0.03870	mg/L	0.008120	0.07740	mg/L	0.016241	20.98%
B 249.677†	74.9	0.02282	mg/L	0.006123	0.04565	mg/L	0.012246	26.83%
Ba 233.527†	1810.7	0.5260	mg/L	0.00536	1.052	mg/L	0.0107	1.02%
Be 313.042†	1673.9	0.00196	mg/L	0.000010	0.00392	mg/L	0.000020	0.52%
Ca 317.933†	1171261.3		50.68 mg/L	0.045	101.4	mg/L	0.09	0.09%
Cd 228.802†	73.5	0.00054	mg/L	0.000129	0.00108	mg/L	0.000259	23.95%
Co 228.616†	2959.1	0.05925	mg/L	0.000578	0.1185	mg/L	0.00116	0.98%
Cr 267.716†	1383.4	0.1688	mg/L	0.00110	0.3376	mg/L	0.00220	0.65%
Cu 324.752†	30247.6	0.1238	mg/L	0.00024	0.2475	mg/L	0.00048	0.19%
Fe 273.955†	139282.1		149.9 mg/L	0.40	299.8	mg/L	0.80	0.27%
K 766.490†	7178.9	4.639	mg/L	0.0172	9.279	mg/L	0.0344	0.37%
Mg 279.077†	57543.2		36.25 mg/L	0.072	72.51	mg/L	0.145	0.20%
Mn 257.610†	61289.9		2.262 mg/L	0.0051	4.525	mg/L	0.0103	0.23%
Mo 202.031†	15.6	0.00447	mg/L	0.000425	0.00894	mg/L	0.000850	9.51%
Na 589.592†	9103.5		1.533 mg/L	0.0037	3.067	mg/L	0.0074	0.24%
Na 330.237†	4.0	1.745	mg/L	0.2219	3.491	mg/L	0.4437	12.71%
Ni 231.604†	376.5	0.1826	mg/L	0.00210	0.3651	mg/L	0.00421	1.15%
Pb 220.353†	-10.6	0.03310	mg/L	0.000532	0.06620	mg/L	0.001064	1.61%
Sb 206.836†	14.1	0.01866	mg/L	0.002539	0.03732	mg/L	0.005078	13.61%
Se 196.026†	-79.6	-0.05222	mg/L	0.006218	-0.1044	mg/L	0.01244	11.91%
Si 288.158†	1998.3		1.401 mg/L	0.0080	2.802	mg/L	0.0160	0.57%
Sn 189.927†	-39.8	-0.00171	mg/L	0.000523	-0.00342	mg/L	0.001047	30.63%
Sr 421.552†	116415.2		0.1715 mg/L	0.00031	0.3429	mg/L	0.00062	0.18%
Ti 334.903†	221533.0		8.460 mg/L	0.0022	16.92	mg/L	0.004	0.03%
Tl 190.801†	-14.7	-0.02146	mg/L	0.003800	-0.04291	mg/L	0.007600	17.71%
V 292.402†	142419.3		0.4770 mg/L	0.00151	0.9540	mg/L	0.00302	0.32%
Zn 206.200†	279.8	0.2610	mg/L	0.00079	0.5220	mg/L	0.00157	0.30%

Sequence No.: 12
 Sample ID: JS91 F SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 30
 Date Collected: 8/24/2006 12:09:19 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 F SWC

Analyte Back Pressure Flow
 All 169.0 kPa 0.50 L/min

Mean Data: JS91 F SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1839816.6		106.0 %	2.44				2.30%
ScR 361.383	223629.1		107.4 %	1.00				0.93%
Ag 328.068†	-2160.9	-0.00058	mg/L	0.000119	-0.00116	mg/L	0.000238	20.45%
Al 308.215†	263039.1		193.4 mg/L	0.53	386.7	mg/L	1.05	0.27%
As 188.979†	79.1	0.03062	mg/L	0.006461	0.06123	mg/L	0.012921	21.10%
B 249.677†	59.4	0.01717	mg/L	0.000962	0.03433	mg/L	0.001924	5.60%
Ba 233.527†	2490.2	0.7271	mg/L	0.00274	1.454	mg/L	0.0055	0.38%
Be 313.042†	1811.1	0.00225	mg/L	0.000078	0.00449	mg/L	0.000156	3.48%
Ca 317.933†	917643.8		39.70 mg/L	0.061	79.41	mg/L	0.122	0.15%
Cd 228.802†	59.4	0.00006	mg/L	0.000241	0.00012	mg/L	0.000481	393.53%
Co 228.616†	3127.5	0.06117	mg/L	0.000874	0.1223	mg/L	0.00175	1.43%
Cr 267.716†	1587.3	0.1929	mg/L	0.00082	0.3858	mg/L	0.00165	0.43%
Cu 324.752†	31386.5	0.1282	mg/L	0.00054	0.2564	mg/L	0.00109	0.42%
Fe 273.955†	144957.7		156.0 mg/L	0.58	312.0	mg/L	1.16	0.37%
K 766.490†	7579.6	4.898	mg/L	0.0203	9.797	mg/L	0.0407	0.42%
Mg 279.077†	61958.4	39.04	mg/L	0.039	78.08	mg/L	0.078	0.10%
Mn 257.610†	61422.8	2.267	mg/L	0.0066	4.534	mg/L	0.0132	0.29%
Mo 202.031†	9.7	0.00425	mg/L	0.000394	0.00850	mg/L	0.000787	9.27%
Na 589.592†	11993.5	2.020	mg/L	0.0014	4.040	mg/L	0.0028	0.07%
Na 330.237†	-2.6	1.955	mg/L	0.0957	3.910	mg/L	0.1915	4.90%
Ni 231.604†	401.7	0.1948	mg/L	0.00123	0.3896	mg/L	0.00245	0.63%
Pb 220.353†	-132.1	0.02402	mg/L	0.000688	0.04803	mg/L	0.001375	2.86%
Sb 206.836†	14.8	0.02005	mg/L	0.002497	0.04009	mg/L	0.004995	12.46%
Se 196.026†	-76.2	-0.05011	mg/L	0.004357	-0.1002	mg/L	0.00871	8.69%
Si 288.158†	3388.7	2.375	mg/L	0.0197	4.751	mg/L	0.0393	0.83%
Sn 189.927†	-22.4	-0.00048	mg/L	0.002071	-0.00095	mg/L	0.004142	434.03%
Sr 421.552†	243467.1	0.3586	mg/L	0.00106	0.7172	mg/L	0.00213	0.30%
Ti 334.903†	258258.2	9.863	mg/L	0.0251	19.73	mg/L	0.050	0.25%
Tl 190.801†	-5.6	-0.01473	mg/L	0.001357	-0.02947	mg/L	0.002715	9.21%
V 292.402†	130054.8	0.4349	mg/L	0.00234	0.8698	mg/L	0.00468	0.54%
Zn 206.200†	306.6	0.2860	mg/L	0.00318	0.5721	mg/L	0.00635	1.11%

Sequence No.: 13
 Sample ID: JS91 G SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 31
 Date Collected: 8/24/2006 12:15:33 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 G SWC

Analyte Back Pressure Flow
 All 168.0 kPa 0.50 L/min

Mean Data: JS91 G SWC

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1907001.1	109.9	%	1.59				1.44%
ScR 361.383	233487.9	112.1	%	1.29				1.15%
Ag 328.068†	-2338.9	-0.00052	mg/L	0.000188	-0.00104	mg/L	0.000375	36.14%
Al 308.215†	280339.0	206.1	mg/L	0.63	412.2	mg/L	1.26	0.31%
As 188.979†	100.4	0.04643	mg/L	0.000315	0.09287	mg/L	0.000629	0.68%
B 249.677†	64.5	0.01854	mg/L	0.002030	0.03707	mg/L	0.004060	10.95%
Ba 233.527†	2512.8	0.7326	mg/L	0.00701	1.465	mg/L	0.0140	0.96%
Be 313.042†	2130.2	0.00273	mg/L	0.000061	0.00546	mg/L	0.000122	2.23%
Ca 317.933†	988510.9	42.77	mg/L	0.098	85.54	mg/L	0.196	0.23%
Cd 228.802†	72.2	0.00026	mg/L	0.000128	0.00051	mg/L	0.000256	49.88%
Co 228.616†	3304.6	0.06331	mg/L	0.000782	0.1266	mg/L	0.00156	1.24%
Cr 267.716†	1750.8	0.2129	mg/L	0.00249	0.4259	mg/L	0.00497	1.17%
Cu 324.752†	38525.0	0.1558	mg/L	0.00042	0.3116	mg/L	0.00084	0.27%
Fe 273.955†	159672.4	171.8	mg/L	0.87	343.7	mg/L	1.75	0.51%
K 766.490†	6777.5	4.380	mg/L	0.0337	8.760	mg/L	0.0674	0.77%
Mg 279.077†	66120.5	41.66	mg/L	0.057	83.32	mg/L	0.114	0.14%
Mn 257.610†	67988.4	2.510	mg/L	0.0103	5.019	mg/L	0.0205	0.41%
Mo 202.031†	19.6	0.00537	mg/L	0.000446	0.01074	mg/L	0.000892	8.30%
Na 589.592†	10091.6	1.700	mg/L	0.0024	3.399	mg/L	0.0049	0.14%
Na 330.237†	-5.7	2.118	mg/L	0.4290	4.236	mg/L	0.8579	20.25%
Ni 231.604†	460.9	0.2235	mg/L	0.00392	0.4470	mg/L	0.00784	1.75%
Pb 220.353†	52.7	0.04538	mg/L	0.000716	0.09075	mg/L	0.001432	1.58%
Sb 206.836†	16.9	0.02270	mg/L	0.006130	0.04540	mg/L	0.012261	27.01%
Se 196.026†	-73.9	-0.04897	mg/L	0.003120	-0.09793	mg/L	0.006241	6.37%
Si 288.158†	2085.4	1.462	mg/L	0.0116	2.924	mg/L	0.0233	0.80%
Sn 189.927†	-27.1	-0.00119	mg/L	0.001250	-0.00238	mg/L	0.002501	104.88%
Sr 421.552†	232300.8	0.3422	mg/L	0.00101	0.6843	mg/L	0.00202	0.29%
Ti 334.903†	290904.5	11.11	mg/L	0.035	22.22	mg/L	0.070	0.31%
Tl 190.801†	-13.4	-0.02261	mg/L	0.002187	-0.04522	mg/L	0.004374	9.67%
V 292.402†	136387.1	0.4558	mg/L	0.00085	0.9116	mg/L	0.00170	0.19%
Zn 206.200†	345.3	0.3222	mg/L	0.00424	0.6443	mg/L	0.00849	1.32%

Sequence No.: 14
 Sample ID: JS91 H SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 32
 Date Collected: 8/24/2006 12:21:47 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 H SWC

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: JS91 H SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1938445.8	111.7 %		1.42			1.27%
ScR 361.383	239097.0	114.8 %		1.33			1.16%
Ag 328.068†	-2117.9	-0.00011 mg/L		0.000114	-0.00023 mg/L	0.000229	100.72%
Al 308.215†	270644.7	198.9 mg/L		0.60	397.9 mg/L	1.20	0.30%
As 188.979†	97.5	0.04752 mg/L		0.004825	0.09503 mg/L	0.009649	10.15%
B 249.677†	59.4	0.01708 mg/L		0.001262	0.03417 mg/L	0.002525	7.39%
Ba 233.527†	2326.0	0.6778 mg/L		0.00410	1.356 mg/L	0.0082	0.60%
Be 313.042†	2018.8	0.00256 mg/L		0.000062	0.00513 mg/L	0.000124	2.41%
Ca 317.933†	729352.8	31.56 mg/L		0.092	63.11 mg/L	0.183	0.29%
Cd 228.802†	69.9	0.00027 mg/L		0.000147	0.00054 mg/L	0.000295	54.68%
Co 228.616†	3076.6	0.05934 mg/L		0.000854	0.1187 mg/L	0.00171	1.44%
Cr 267.716†	1631.0	0.1986 mg/L		0.00054	0.3972 mg/L	0.00109	0.27%
Cu 324.752†	32024.3	0.1313 mg/L		0.00058	0.2626 mg/L	0.00116	0.44%
Fe 273.955†	152812.8	164.4 mg/L		0.55	328.9 mg/L	1.10	0.33%
K 766.490†	6772.2	4.377 mg/L		0.0362	8.753 mg/L	0.0723	0.83%
Mg 279.077†	62705.7	39.51 mg/L		0.099	79.01 mg/L	0.197	0.25%
Mn 257.610†	65209.1	2.407 mg/L		0.0072	4.814 mg/L	0.0145	0.30%
Mo 202.031†	12.4	0.00461 mg/L		0.000307	0.00921 mg/L	0.000614	6.66%
Na 589.592†	8833.0	1.488 mg/L		0.0039	2.975 mg/L	0.0078	0.26%
Na 330.237†	6.9	2.426 mg/L		0.5848	4.853 mg/L	1.1696	24.10%
Ni 231.604†	449.8	0.2181 mg/L		0.00216	0.4362 mg/L	0.00431	0.99%
Pb 220.353†	83.6	0.04715 mg/L		0.000116	0.09430 mg/L	0.000233	0.25%
Sb 206.836†	15.2	0.02061 mg/L		0.002245	0.04122 mg/L	0.004490	10.89%
Se 196.026†	-76.0	-0.05015 mg/L		0.004879	-0.1003 mg/L	0.00976	9.73%
Si 288.158†	2342.6	1.642 mg/L		0.0085	3.284 mg/L	0.0170	0.52%
Sn 189.927†	-16.6	-0.00080 mg/L		0.001904	-0.00161 mg/L	0.003807	236.85%
Sr 421.552†	117491.8	0.1731 mg/L		0.00065	0.3461 mg/L	0.00130	0.38%
Ti 334.903†	265168.7	10.13 mg/L		0.028	20.25 mg/L	0.057	0.28%
Tl 190.801†	-7.8	-0.01695 mg/L		0.004898	-0.03390 mg/L	0.009797	28.90%
V 292.402†	133441.7	0.4462 mg/L		0.00081	0.8925 mg/L	0.00162	0.18%
Zn 206.200†	324.3	0.3024 mg/L		0.00241	0.6048 mg/L	0.00482	0.80%

Sequence No.: 15
 Sample ID: JS91 REF1 SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 33
 Date Collected: 8/24/2006 12:28:03 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 REF1 SWC

Analyte Back Pressure Flow
 All 169.0 kPa 0.50 L/min

Mean Data: JS91 REF1 SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1966344.6		113.3 %	0.47				0.42%
ScR 361.383	249091.1		119.6 %	0.42				0.35%
Ag 328.068†	354048.0		1.125 mg/L	0.0011	2.249 mg/L	0.0022		0.10%
Al 308.215†	120845.3		88.81 mg/L	0.510	177.6 mg/L	1.02		0.57%
As 188.979†	1105.0		1.037 mg/L ✓	0.0023	2.075 mg/L	0.0045		0.22%
B 249.677†	2004.0		0.6793 mg/L	0.00495	1.359 mg/L	0.0099		0.73%
Ba 233.527†	5406.2		1.593 mg/L	0.0087	3.187 mg/L	0.0175		0.55%
Be 313.042†	324730.4		0.5240 mg/L	0.00335	1.048 mg/L	0.0067		0.64%
Ca 317.933†	925983.6		40.06 mg/L	0.261	80.13 mg/L	0.523		0.65%
Cd 228.802†	19759.0		0.5795 mg/L	0.00441	1.159 mg/L	0.0088		0.76%
Co 228.616†	31336.4		0.7817 mg/L	0.00093	1.563 mg/L	0.0019		0.12%
Cr 267.716†	5773.1		0.6871 mg/L	0.00381	1.374 mg/L	0.0076		0.55%
Cu 324.752†	233502.0		0.8739 mg/L	0.00043	1.748 mg/L	0.0009		0.05%
Fe 273.955†	121632.2		130.9 mg/L	0.46	261.8 mg/L	0.92		0.35%
K 766.490†	35410.5		22.88 mg/L	0.182	45.77 mg/L	0.365		0.80%
Mg 279.077†	48536.1		30.58 mg/L	0.219	61.16 mg/L	0.438		0.72%
Mn 257.610†	125298.5		4.628 mg/L	0.0239	9.257 mg/L	0.0479		0.52%
Mo 202.031†	2477.6		0.2280 mg/L	0.00196	0.4561 mg/L	0.00392		0.86%
Na 589.592†	13310.1		2.242 mg/L	0.0169	4.484 mg/L	0.0337		0.75%
Na 330.237†	90.1		3.007 mg/L	0.1835	6.014 mg/L	0.3669		6.10%
Ni 231.604†	1140.7		0.5534 mg/L	0.00265	1.107 mg/L	0.0053		0.48%
Pb 220.353†	12135.4		1.258 mg/L ✓	0.0092	2.516 mg/L	0.0184		0.73%
Sb 206.836†	544.8		0.4866 mg/L	0.00149	0.9733 mg/L	0.00297		0.31%
Se 196.026†	1781.1		1.106 mg/L	0.0151	2.213 mg/L	0.0301		1.36%
Si 288.158†	2201.7		1.544 mg/L	0.0038	3.089 mg/L	0.0076		0.25%
Sn 189.927†	4777.1		0.9750 mg/L	0.00807	1.950 mg/L	0.0161		0.83%
Sr 421.552†	363668.1		0.5357 mg/L	0.00267	1.071 mg/L	0.0053		0.50%
Ti 334.903†	84946.0		3.244 mg/L	0.0196	6.487 mg/L	0.0391		0.60%
Tl 190.801†	2253.5		1.925 mg/L	0.0126	3.851 mg/L	0.0252		0.65%
V 292.402†	354729.6		1.198 mg/L	0.0014	2.397 mg/L	0.0029		0.12%
Zn 206.200†	2699.4		2.547 mg/L	0.0181	5.095 mg/L	0.0362		0.71%

Sequence No.: 16
 Sample ID: CV3
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 7
 Date Collected: 8/24/2006 12:34:19 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 169.0 kPa 0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1800636.2	103.7 %	1.63			1.57%
ScR 361.383	230910.8	110.9 %	1.04			0.94%
Ag 328.068†	318949.4	1.009 mg/L	0.0003	1.009 mg/L	0.0003	0.03%
Al 308.215†	2793.3	2.016 mg/L	0.0322	2.016 mg/L	0.0322	1.60%
As 188.979†	2153.2	2.055 mg/L	0.0121	2.055 mg/L	0.0121	0.59%
B 249.677†	2905.8	0.9878 mg/L	0.01195	0.9878 mg/L	0.01195	1.21%
Ba 233.527†	3316.5	0.9831 mg/L	0.01495	0.9831 mg/L	0.01495	1.52%
Be 313.042†	623458.9	1.008 mg/L	0.0013	1.008 mg/L	0.0013	0.13%
Ca 317.933†	49009.6	2.121 mg/L	0.0020	2.121 mg/L	0.0020	0.09%
Cd 228.802†	35312.7	1.038 mg/L	0.0012	1.038 mg/L	0.0012	0.12%
Co 228.616†	40445.7	1.017 mg/L	0.0010	1.017 mg/L	0.0010	0.10%
Cr 267.716†	8175.1	0.9672 mg/L	0.01281	0.9672 mg/L	0.01281	1.32%
Cu 324.752†	284465.6	1.050 mg/L	0.0011	1.050 mg/L	0.0011	0.11%
Fe 273.955†	1933.6	2.078 mg/L	0.0367	2.078 mg/L	0.0367	1.77%
K 766.490†	30236.0	19.54 mg/L	0.060	19.54 mg/L	0.060	0.31%
Mg 279.077†	3401.0	2.153 mg/L	0.0292	2.153 mg/L	0.0292	1.35%
Mn 257.610†	25784.4	0.9531 mg/L	0.01431	0.9531 mg/L	0.01431	1.50%
Mo 202.031†	10757.7	0.9847 mg/L	0.00427	0.9847 mg/L	0.00427	0.43%
Na 589.592†	292894.4	49.33 mg/L	0.038	49.33 mg/L	0.038	0.08%
Na 330.237†	1428.2	50.63 mg/L	0.706	50.63 mg/L	0.706	1.39%
Ni 231.604†	2104.2	1.022 mg/L	0.0173	1.022 mg/L	0.0173	1.69%
Pb 220.353†	20153.2	2.061 mg/L	0.0074	2.061 mg/L	0.0074	0.36%
Sb 206.836†	2419.1	2.128 mg/L	0.0071	2.128 mg/L	0.0071	0.33%
Se 196.026†	3324.5	2.074 mg/L	0.0100	2.074 mg/L	0.0100	0.48%
Si 288.158†	2955.5	2.073 mg/L	0.0295	2.073 mg/L	0.0295	1.42%
Sn 189.927†	4782.1	0.9735 mg/L	0.00525	0.9735 mg/L	0.00525	0.54%
Sr 421.552†	667532.1	0.9832 mg/L	0.00056	0.9832 mg/L	0.00056	0.06%
Ti 334.903†	26827.6	1.023 mg/L	0.0014	1.023 mg/L	0.0014	0.13%
Tl 190.801†	2342.3	2.006 mg/L	0.0099	2.006 mg/L	0.0099	0.49%
V 292.402†	303492.1	1.029 mg/L	0.0019	1.029 mg/L	0.0019	0.18%
Zn 206.200†	1108.7	1.047 mg/L	0.0172	1.047 mg/L	0.0172	1.64%

Sequence No.: 17
 Sample ID: CB
 Analyst: JLB 3
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/24/2006 12:40:32 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 168.0 kPa 0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1706012.0	98.27 %	%	3.147			3.20%
ScR 361.383	206336.8	99.07 %	%	0.233			0.24%
Ag 328.068†	40.7	0.00013 mg/L	mg/L	0.000266	0.00013 mg/L	0.000266	206.62%
Al 308.215†	31.8	0.02339 mg/L	mg/L	0.016592	0.02339 mg/L	0.016592	70.95%
As 188.979†	11.3	0.01079 mg/L	mg/L	0.004364	0.01079 mg/L	0.004364	40.44%
B 249.677†	12.3	0.00417 mg/L	mg/L	0.002466	0.00417 mg/L	0.002466	59.11%
Ba 233.527†	-0.3	-0.00008 mg/L	mg/L	0.000740	-0.00008 mg/L	0.000740	894.13%
Be 313.042†	28.6	0.00005 mg/L	mg/L	0.000019	0.00005 mg/L	0.000019	40.64%
Ca 317.933†	-6.1	-0.00026 mg/L	mg/L	0.001190	-0.00026 mg/L	0.001190	453.34%
Cd 228.802†	7.7	0.00021 mg/L	mg/L	0.000225	0.00021 mg/L	0.000225	105.97%
Co 228.616†	6.4	0.00016 mg/L	mg/L	0.000058	0.00016 mg/L	0.000058	35.21%
Cr 267.716†	11.8	0.00140 mg/L	mg/L	0.000656	0.00140 mg/L	0.000656	47.01%
Cu 324.752†	84.5	0.00031 mg/L	mg/L	0.000474	0.00031 mg/L	0.000474	151.79%
Fe 273.955†	2.1	0.00228 mg/L	mg/L	0.002345	0.00228 mg/L	0.002345	102.69%
K 766.490†	83.4	0.05391 mg/L	mg/L	0.005800	0.05391 mg/L	0.005800	10.76%
Mg 279.077†	16.5	0.01043 mg/L	mg/L	0.010561	0.01043 mg/L	0.010561	101.22%
Mn 257.610†	6.4	0.00024 mg/L	mg/L	0.000117	0.00024 mg/L	0.000117	49.89%
Mo 202.031†	5.1	0.00047 mg/L	mg/L	0.000292	0.00047 mg/L	0.000292	62.12%
Na 589.592†	-340.4	-0.05734 mg/L	mg/L	0.009282	-0.05734 mg/L	0.009282	16.19%
Na 330.237†	4.1	0.1440 mg/L	mg/L	0.56983	0.1440 mg/L	0.56983	395.81%
Ni 231.604†	-0.2	-0.00008 mg/L	mg/L	0.001898	-0.00008 mg/L	0.001898	>999.9%
Pb 220.353†	1.7	0.00018 mg/L	mg/L	0.001197	0.00018 mg/L	0.001197	652.99%
Sb 206.836†	-0.1	-0.00009 mg/L	mg/L	0.000766	-0.00009 mg/L	0.000766	884.57%
Se 196.026†	-1.8	-0.00112 mg/L	mg/L	0.003946	-0.00112 mg/L	0.003946	350.84%
Si 288.158†	6.0	0.00418 mg/L	mg/L	0.002813	0.00418 mg/L	0.002813	67.30%
Sn 189.927†	10.4	0.00212 mg/L	mg/L	0.000898	0.00212 mg/L	0.000898	42.38%
Sr 421.552†	-1.6	0.00000 mg/L	mg/L	0.000165	0.00000 mg/L	0.000165	>999.9%
Ti 334.903†	-30.2	-0.00115 mg/L	mg/L	0.000866	-0.00115 mg/L	0.000866	75.06%
Tl 190.801†	7.8	0.00667 mg/L	mg/L	0.003006	0.00667 mg/L	0.003006	45.07%
V 292.402†	4.1	0.00002 mg/L	mg/L	0.000240	0.00002 mg/L	0.000240	983.31%
Zn 206.200†	1.1	0.00105 mg/L	mg/L	0.000448	0.00105 mg/L	0.000448	42.47%

Sequence No.: 18
 Sample ID: JS91 MB2 SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 34
 Date Collected: 8/24/2006 12:46:54 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 MB2 SWC

Analyte Back Pressure Flow
 All 168.0 kPa 0.50 L/min

Mean Data: JS91 MB2 SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1714084.3		98.74 %	0.355				0.36%
ScR 361.383	209861.0		100.8 %	0.73				0.72%
Ag 328.068†	4.2	0.00001	mg/L	0.000047	0.00003	mg/L	0.000094	335.08%
Al 308.215†	149.4	0.1098	mg/L	0.00803	0.2197	mg/L	0.01607	7.31%
As 188.979†	4.2	0.00396	mg/L	0.001768	0.00792	mg/L	0.003537	44.66%
B 249.677†	12.1	0.00411	mg/L	0.001188	0.00821	mg/L	0.002377	28.94%
Ba 233.527†	-3.5	-0.00105	mg/L	0.000794	-0.00209	mg/L	0.001587	75.86%
Be 313.042†	-11.6	-0.00002	mg/L	0.000056	-0.00004	mg/L	0.000112	297.25%
Ca 317.933†	2493.0	0.1079	mg/L	0.00227	0.2157	mg/L	0.00454	2.10%
Cd 228.802†	8.9	0.00026	mg/L	0.000111	0.00051	mg/L	0.000222	43.28%
Co 228.616†	10.3	0.00025	mg/L	0.000235	0.00051	mg/L	0.000470	92.57%
Cr 267.716†	14.1	0.00166	mg/L	0.000614	0.00333	mg/L	0.001228	36.88%
Cu 324.752†	98.7	0.00037	mg/L	0.000079	0.00073	mg/L	0.000157	21.54%
Fe 273.955†	22.1	0.02373	mg/L	0.005286	0.04746	mg/L	0.010571	22.27%
K 766.490†	-30.1	-0.01942	mg/L	0.014247	-0.03884	mg/L	0.028494	73.36%
Mg 279.077†	38.9	0.02455	mg/L	0.013418	0.04910	mg/L	0.026836	54.65%
Mn 257.610†	28.1	0.00104	mg/L	0.000317	0.00207	mg/L	0.000634	30.58%
Mo 202.031†	0.1	0.00001	mg/L	0.000339	0.00003	mg/L	0.000678	>999.9%
Na 589.592†	-379.5	-0.06393	mg/L	0.006375	-0.1279	mg/L	0.01275	9.97%
Na 330.237†	1.7	0.05825	mg/L	0.827953	0.1165	mg/L	1.65591	>999.9%
Ni 231.604†	-3.0	-0.00145	mg/L	0.001503	-0.00289	mg/L	0.003005	103.96%
Pb 220.353†	-0.0	0.00002	mg/L	0.000350	0.00004	mg/L	0.000700	>999.9%
Sb 206.836†	0.8	0.00065	mg/L	0.001172	0.00130	mg/L	0.002344	180.92%
Se 196.026†	8.3	0.00521	mg/L	0.004252	0.01042	mg/L	0.008504	81.62%
Si 288.158†	12.5	0.00874	mg/L	0.003716	0.01748	mg/L	0.007433	42.52%
Sn 189.927†	2.8	0.00059	mg/L	0.000173	0.00117	mg/L	0.000346	29.49%
Sr 421.552†	100.1	0.00015	mg/L	0.000088	0.00029	mg/L	0.000176	59.85%
Ti 334.903†	121.2	0.00463	mg/L	0.000213	0.00925	mg/L	0.000427	4.61%
Tl 190.801†	8.1	0.00695	mg/L	0.002754	0.01389	mg/L	0.005507	39.64%
V 292.402†	33.2	0.00012	mg/L	0.000083	0.00024	mg/L	0.000166	68.09%
Zn 206.200†	16.5	0.01558	mg/L	0.003616	0.03117	mg/L	0.007232	23.21%

Sequence No.: 19
 Sample ID: JS91 I SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 35
 Date Collected: 8/24/2006 12:53:20 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 I SWC

Analyte Back Pressure Flow
 All 168.0 kPa 0.50 L/min

Mean Data: JS91 I SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	1686587.9		97.16 %	0.552				0.57%
ScR 361.383	212619.1		102.1 %	0.69				0.68%
Ag 328.068†	-2260.5	-0.00044	mg/L	0.000091	-0.00089	mg/L	0.000182	20.52%
Al 308.215†	287140.4		211.1 mg/L	0.45	422.2	mg/L	0.90	0.21%
As 188.979†	87.9	0.03730	mg/L	0.001860	0.07459	mg/L	0.003720	4.99%
B 249.677†	46.2	0.01274	mg/L	0.002676	0.02548	mg/L	0.005353	21.01%
Ba 233.527†	1741.7	0.5044	mg/L	0.00267	1.009	mg/L	0.0053	0.53%
Be 313.042†	1820.2	0.00222	mg/L	0.000078	0.00444	mg/L	0.000157	3.53%
Ca 317.933†	750292.3		32.46 mg/L	0.064	64.93	mg/L	0.127	0.20%
Cd 228.802†	59.5	-0.00003	mg/L	0.000226	-0.00005	mg/L	0.000453	847.12%
Co 228.616†	3091.4	0.06000	mg/L	0.000921	0.1200	mg/L	0.00184	1.53%
Cr 267.716†	1710.8	0.2084	mg/L	0.00034	0.4168	mg/L	0.00067	0.16%
Cu 324.752†	33753.2	0.1378	mg/L	0.00032	0.2755	mg/L	0.00064	0.23%
Fe 273.955†	153515.8		165.2 mg/L	0.22	330.4	mg/L	0.44	0.13%
K 766.490†	7052.8		4.558 mg/L	0.0853	9.116	mg/L	0.1706	1.87%
Mg 279.077†	62751.3		39.53 mg/L	0.619	79.07	mg/L	1.237	1.56%
Mn 257.610†	50520.6		1.864 mg/L	0.0241	3.728	mg/L	0.0481	1.29%
Mo 202.031†	312.2	0.03231	mg/L	0.000638	0.06462	mg/L	0.001277	1.98%
Na 589.592†	10553.8		1.778 mg/L	0.0173	3.555	mg/L	0.0346	0.97%
Na 330.237†	-4.5	2.009	mg/L	0.2731	4.019	mg/L	0.5461	13.59%
Ni 231.604†	428.8	0.2079	mg/L	0.00253	0.4159	mg/L	0.00507	1.22%
Pb 220.353†	-86.8	0.03209	mg/L	0.000826	0.06417	mg/L	0.001652	2.57%
Sb 206.836†	13.1	0.01863	mg/L	0.000419	0.03726	mg/L	0.000838	2.25%
Se 196.026†	-72.4	-0.04731	mg/L	0.008736	-0.09461	mg/L	0.017472	18.47%
Si 288.158†	2396.3		1.680 mg/L	0.0139	3.360	mg/L	0.0278	0.83%
Sn 189.927†	-7.4	0.00122	mg/L	0.000996	0.00244	mg/L	0.001991	81.76%
Sr 421.552†	120737.6		0.1778 mg/L	0.00022	0.3557	mg/L	0.00045	0.13%
Ti 334.903†	264414.6		10.10 mg/L	0.017	20.20	mg/L	0.035	0.17%
Tl 190.801†	-8.1	-0.01712	mg/L	0.000495	-0.03424	mg/L	0.000990	2.89%
V 292.402†	137885.4		0.4612 mg/L	0.00204	0.9224	mg/L	0.00407	0.44%
Zn 206.200†	307.9	0.2869	mg/L	0.00130	0.5738	mg/L	0.00261	0.45%

Sequence No.: 20

Sample ID: JS91 J SWC

Analyst: JLB

Initial Sample Wt:

Dilution: 2X

Autosampler Location: 36

Date Collected: 8/24/2006 12:59:49 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: JS91 J SWC

Analyte	Back Pressure	Flow
All	168.0 kPa	0.50 L/min

Mean Data: JS91 J SWC

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1698199.2	97.82	%	0.234				0.24%
ScR 361.383	209431.4	100.6	%	0.99				0.98%
Ag 328.068†	-2038.8	-0.00027	mg/L	0.000220	-0.00054	mg/L	0.000439	81.59%
Al 308.215†	272266.2	200.1	mg/L	0.55	400.3	mg/L	1.11	0.28%
As 188.979†	109.0	0.05762	mg/L	0.003416	0.1152	mg/L	0.00683	5.93%
B 249.677†	69.5	0.02047	mg/L	0.001185	0.04095	mg/L	0.002369	5.79%
Ba 233.527†	2253.6	0.6569	mg/L	0.00621	1.314	mg/L	0.0124	0.95%
Be 313.042†	2083.6	0.00269	mg/L	0.000039	0.00538	mg/L	0.000079	1.47%
Ca 317.933†	952580.9	41.22	mg/L	0.018	82.43	mg/L	0.035	0.04%
Cd 228.802†	84.4	0.00076	mg/L	0.000280	0.00152	mg/L	0.000561	36.77%
Co 228.616†	2912.8	0.05530	mg/L	0.000325	0.1106	mg/L	0.00065	0.59%
Cr 267.716†	1555.2	0.1896	mg/L	0.00115	0.3791	mg/L	0.00230	0.61%
Cu 324.752†	32736.9	0.1332	mg/L	0.000051	0.2663	mg/L	0.00102	0.38%
Fe 273.955†	144906.5	155.9	mg/L	0.72	311.9	mg/L	1.43	0.46%
K 766.490†	5950.1	3.845	mg/L	0.0179	7.691	mg/L	0.0359	0.47%
Mg 279.077†	54360.1	34.24	mg/L	0.042	68.48	mg/L	0.083	0.12%
Mn 257.610†	73209.1	2.703	mg/L	0.0079	5.405	mg/L	0.0157	0.29%
Mo 202.031†	28.3	0.00621	mg/L	0.000140	0.01241	mg/L	0.000280	2.26%
Na 589.592†	7902.1	1.331	mg/L	0.0024	2.662	mg/L	0.0048	0.18%
Na 330.237†	-23.4	1.290	mg/L	0.1054	2.580	mg/L	0.2109	8.17%
Ni 231.604†	384.8	0.1866	mg/L	0.00281	0.3732	mg/L	0.00563	1.51%
Pb 220.353†	246.0	0.06395	mg/L	0.000395	0.1279	mg/L	0.00079	0.62%
Sb 206.836†	12.6	0.01845	mg/L	0.000252	0.03689	mg/L	0.000503	1.36%
Se 196.026†	-72.5	-0.04831	mg/L	0.007575	-0.09662	mg/L	0.015150	15.68%
Si 288.158†	1813.8	1.272	mg/L	0.0061	2.543	mg/L	0.0121	0.48%
Sn 189.927†	-26.2	-0.00091	mg/L	0.001182	-0.00182	mg/L	0.002365	129.62%
Sr 421.552†	106980.8	0.1576	mg/L	0.00042	0.3152	mg/L	0.00084	0.27%
Ti 334.903†	267326.8	10.21	mg/L	0.024	20.42	mg/L	0.047	0.23%
Tl 190.801†	-10.4	-0.01913	mg/L	0.008409	-0.03826	mg/L	0.016818	43.95%
V 292.402†	129646.4	0.4334	mg/L	0.00078	0.8668	mg/L	0.00156	0.18%
Zn 206.200†	305.8	0.2853	mg/L	0.00363	0.5707	mg/L	0.00727	1.27%

Sequence No.: 21
 Sample ID: JS91 K SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 37
 Date Collected: 8/24/2006 1:06:03 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

 Nebulizer Parameters: JS91 K SWC

Analyte Back Pressure Flow
 All 168.0 kPa 0.50 L/min

Mean Data: JS91 K SWC

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1739994.9	100.2	%	0.34				0.34%
ScR 361.383	219651.8	105.5	%	0.18				0.17%
Ag 328.068†	-2145.5	-0.00012	mg/L	0.000104	-0.00024	mg/L	0.000207	85.04%
Al 308.215†	282986.6	208.0	mg/L	0.54	416.0	mg/L	1.08	0.26%
As 188.979†	83.5	0.03262	mg/L	0.003039	0.06524	mg/L	0.006078	9.32%
B 249.677†	47.9	0.01328	mg/L	0.001149	0.02656	mg/L	0.002297	8.65%
Ba 233.527†	1545.4	0.4462	mg/L	0.00202	0.8925	mg/L	0.00404	0.45%
Be 313.042†	1797.9	0.00217	mg/L	0.000047	0.00435	mg/L	0.000094	2.17%
Ca 317.933†	790538.3	34.20	mg/L	0.087	68.41	mg/L	0.174	0.25%
Cd 228.802†	59.5	-0.00001	mg/L	0.000071	-0.00002	mg/L	0.000141	660.12%
Co 228.616†	3011.8	0.05754	mg/L	0.000316	0.1151	mg/L	0.00063	0.55%
Cr 267.716†	1959.4	0.2373	mg/L	0.00178	0.4746	mg/L	0.00356	0.75%
Cu 324.752†	32936.4	0.1346	mg/L	0.00057	0.2693	mg/L	0.00113	0.42%
Fe 273.955†	153052.0	164.7	mg/L	0.71	329.4	mg/L	1.42	0.43%
K 766.490†	7956.8	5.142	mg/L	0.0419	10.28	mg/L	0.084	0.82%
Mg 279.077†	66619.1	41.98	mg/L	0.132	83.96	mg/L	0.264	0.31%
Mn 257.610†	54941.4	2.027	mg/L	0.0033	4.055	mg/L	0.0067	0.16%
Mo 202.031†	15.3	0.00501	mg/L	0.000483	0.01003	mg/L	0.000966	9.63%
Na 589.592†	10476.9	1.765	mg/L	0.0021	3.529	mg/L	0.0043	0.12%
Na 330.237†	-1.2	2.171	mg/L	0.4370	4.342	mg/L	0.8741	20.13%
Ni 231.604†	448.6	0.2175	mg/L	0.00056	0.4351	mg/L	0.00112	0.26%
Pb 220.353†	-153.0	0.02478	mg/L	0.000216	0.04955	mg/L	0.000432	0.87%
Sb 206.836†	18.1	0.02276	mg/L	0.002205	0.04553	mg/L	0.004410	9.69%
Se 196.026†	-75.6	-0.04951	mg/L	0.006008	-0.09901	mg/L	0.012015	12.14%
Si 288.158†	2062.8	1.446	mg/L	0.0049	2.892	mg/L	0.0098	0.34%
Sn 189.927†	-23.9	-0.00193	mg/L	0.000882	-0.00385	mg/L	0.001764	45.77%
Sr 421.552†	104735.2	0.1543	mg/L	0.00036	0.3085	mg/L	0.00073	0.24%
Ti 334.903†	270774.7	10.34	mg/L	0.019	20.68	mg/L	0.039	0.19%
Tl 190.801†	-6.8	-0.01633	mg/L	0.003987	-0.03266	mg/L	0.007974	24.42%
V 292.402†	139953.2	0.4683	mg/L	0.00094	0.9365	mg/L	0.00188	0.20%
Zn 206.200†	308.4	0.2874	mg/L	0.00154	0.5748	mg/L	0.00308	0.54%

Sequence No.: 22
 Sample ID: JS91 L SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 38
 Date Collected: 8/24/2006 1:12:17 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 L SWC

Analyte Back Pressure Flow
 All 169.0 kPa 0.50 L/min

Mean Data: JS91 L SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	1836486.6		105.8 %	0.69				0.66%
ScR 361.383	228992.6		109.9 %	0.83				0.75%
Ag 328.068†	-2658.2	-0.00094	mg/L	0.000147	-0.00187	mg/L	0.000294	15.70%
Al 308.215†	294623.9		216.6 mg/L	0.17	433.2	mg/L	0.33	0.08%
As 188.979†	92.2	0.03792	mg/L	0.002545	0.07585	mg/L	0.005090	6.71%
B 249.677†	53.5	0.01493	mg/L	0.002132	0.02985	mg/L	0.004263	14.28%
Ba 233.527†	1910.3	0.5530	mg/L	0.00530	1.106	mg/L	0.0106	0.96%
Be 313.042†	2250.7	0.00280	mg/L	0.000029	0.00560	mg/L	0.000058	1.03%
Ca 317.933†	1094368.3		47.35 mg/L	0.085	94.70	mg/L	0.170	0.18%
Cd 228.802†	67.6	0.00001	mg/L	0.000042	0.00003	mg/L	0.000084	323.03%
Co 228.616†	3334.9	0.06434	mg/L	0.000175	0.1287	mg/L	0.00035	0.27%
Cr 267.716†	1938.2	0.2353	mg/L	0.00213	0.4706	mg/L	0.00426	0.91%
Cu 324.752†	42211.2	0.1706	mg/L	0.00052	0.3412	mg/L	0.00104	0.31%
Fe 273.955†	171612.3		184.7 mg/L	0.54	369.4	mg/L	1.08	0.29%
K 766.490†	8510.1	5.500	mg/L	0.0666	11.00	mg/L	0.133	1.21%
Mg 279.077†	76402.0	48.15	mg/L	0.029	96.29	mg/L	0.058	0.06%
Mn 257.610†	62609.6	2.311	mg/L	0.0028	4.621	mg/L	0.0056	0.12%
Mo 202.031†	18.5	0.00535	mg/L	0.000262	0.01069	mg/L	0.000524	4.90%
Na 589.592†	13321.1	2.244	mg/L	0.0030	4.487	mg/L	0.0060	0.13%
Na 330.237†	17.6	2.858	mg/L	0.1416	5.716	mg/L	0.2832	4.95%
Ni 231.604†	486.1	0.2357	mg/L	0.00509	0.4714	mg/L	0.01018	2.16%
Pb 220.353†	-165.8	0.02510	mg/L	0.001376	0.05020	mg/L	0.002752	5.48%
Sb 206.836†	15.9	0.02156	mg/L	0.003085	0.04312	mg/L	0.006170	14.31%
Se 196.026†	-88.5	-0.05785	mg/L	0.006654	-0.1157	mg/L	0.01331	11.50%
Si 288.158†	1917.0	1.344	mg/L	0.0108	2.688	mg/L	0.0216	0.80%
Sn 189.927†	-32.7	-0.00166	mg/L	0.000816	-0.00332	mg/L	0.001632	49.17%
Sr 421.552†	112641.2	0.1659	mg/L	0.00005	0.3318	mg/L	0.00010	0.03%
Ti 334.903†	285699.4	10.91	mg/L	0.007	21.82	mg/L	0.013	0.06%
Tl 190.801†	-12.1	-0.02149	mg/L	0.002587	-0.04298	mg/L	0.005174	12.04%
V 292.402†	160530.6	0.5373	mg/L	0.00021	1.075	mg/L	0.0004	0.04%
Zn 206.200†	332.6	0.3099	mg/L	0.00432	0.6197	mg/L	0.00865	1.40%

Sequence No.: 23
 Sample ID: JS91 M SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 39
 Date Collected: 8/24/2006 1:18:31 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 M SWC

Analyte Back Pressure Flow
 All 169.0 kPa 0.50 L/min

Mean Data: JS91 M SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1974395.5	113.7 %		0.52			0.45%
ScR 361.383	243602.0	117.0 %		1.77			1.51%
Ag 328.068†	-1833.5	-0.00012 mg/L		0.000088	-0.00025 mg/L	0.000175	71.49%
Al 308.215†	247591.5	182.0 mg/L		0.87	364.0 mg/L	1.75	0.48%
As 188.979†	141.8	0.09189 mg/L		0.002905	0.1838 mg/L	0.00581	3.16%
B 249.677†	62.0	0.01829 mg/L		0.001464	0.03659 mg/L	0.002928	8.00%
Ba 233.527†	2577.6	0.7536 mg/L		0.00363	1.507 mg/L	0.0073	0.48%
Be 313.042†	1838.1	0.00234 mg/L		0.000030	0.00467 mg/L	0.000061	1.30%
Ca 317.933†	915557.7	39.61 mg/L		0.289	79.23 mg/L	0.578	0.73%
Cd 228.802†	90.9	0.00099 mg/L		0.000092	0.00197 mg/L	0.000183	9.30%
Co 228.616†	2876.8	0.05500 mg/L		0.000335	0.1100 mg/L	0.00067	0.61%
Cr 267.716†	2031.8	0.2437 mg/L		0.00194	0.4875 mg/L	0.00388	0.80%
Cu 324.752†	35846.1	0.1440 mg/L		0.00041	0.2879 mg/L	0.00083	0.29%
Fe 273.955†	137952.7	148.5 mg/L		0.31	296.9 mg/L	0.62	0.21%
K 766.490†	6393.2	4.132 mg/L		0.0039	8.263 mg/L	0.0079	0.10%
Mg 279.077†	65951.6	41.57 mg/L		0.347	83.14 mg/L	0.693	0.83%
Mn 257.610†	103711.5	3.830 mg/L		0.0133	7.659 mg/L	0.0266	0.35%
Mo 202.031†	27.1	0.00552 mg/L		0.000191	0.01105 mg/L	0.000381	3.45%
Na 589.592†	9673.6	1.629 mg/L		0.0110	3.259 mg/L	0.0219	0.67%
Na 330.237†	2.3	2.098 mg/L		0.5384	4.196 mg/L	1.0768	25.66%
Ni 231.604†	447.9	0.2172 mg/L		0.00126	0.4343 mg/L	0.00252	0.58%
Pb 220.353†	739.2	0.1109 mg/L		0.00034	0.2219 mg/L	0.00068	0.31%
Sb 206.836†	17.5	0.02137 mg/L		0.000481	0.04274 mg/L	0.000962	2.25%
Se 196.026†	-61.4	-0.04270 mg/L		0.004145	-0.08540 mg/L	0.008289	9.71%
Si 288.158†	2250.1	1.577 mg/L		0.0103	3.155 mg/L	0.0206	0.65%
Sn 189.927†	-20.8	-0.00020 mg/L		0.000894	-0.00041 mg/L	0.001789	437.95%
Sr 421.552†	136726.4	0.2014 mg/L		0.00077	0.4028 mg/L	0.00153	0.38%
Ti 334.903†	255722.5	9.766 mg/L		0.0465	19.53 mg/L	0.093	0.48%
Tl 190.801†	-8.7	-0.01724 mg/L		0.004036	-0.03448 mg/L	0.008072	23.41%
V 292.402†	121340.5	0.4062 mg/L		0.00124	0.8124 mg/L	0.00248	0.31%
Zn 206.200†	335.3	0.3134 mg/L		0.00382	0.6267 mg/L	0.00764	1.22%

Sequence No.: 24
 Sample ID: JS91 N SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 40
 Date Collected: 8/24/2006 1:24:45 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 N SWC

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: JS91 N SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2013491.3		116.0 %	0.86				0.74%
ScR 361.383	255494.7		122.7 %	1.23				1.00%
Ag 328.068†	-2210.2	-0.00028	mg/L	0.000155	-0.00055	mg/L	0.000311	56.29%
Al 308.215†	273199.9		200.8 mg/L	0.51	401.7	mg/L	1.02	0.25%
As 188.979†	133.5	0.07852	mg/L	0.002116	0.1570	mg/L	0.00423	2.70%
B 249.677†	74.3	0.02197	mg/L	0.001316	0.04394	mg/L	0.002631	5.99%
Ba 233.527†	3171.1	0.9274	mg/L	0.00406	1.855	mg/L	0.0081	0.44%
Be 313.042†	2390.7	0.00312	mg/L	0.000047	0.00624	mg/L	0.000094	1.51%
Ca 317.933†	1048576.3	45.37	mg/L	0.039	90.74	mg/L	0.078	0.09%
Cd 228.802†	94.6	0.00080	mg/L	0.000118	0.00160	mg/L	0.000236	14.76%
Co 228.616†	3192.2	0.06027	mg/L	0.000325	0.1205	mg/L	0.00065	0.54%
Cr 267.716†	1994.3	0.2413	mg/L	0.00149	0.4825	mg/L	0.00298	0.62%
Cu 324.752†	37880.9	0.1540	mg/L	0.00031	0.3081	mg/L	0.00061	0.20%
Fe 273.955†	165495.9	178.1	mg/L	0.42	356.2	mg/L	0.85	0.24%
K 766.490†	7708.6	4.982	mg/L	0.0358	9.964	mg/L	0.0716	0.72%
Mg 279.077†	62935.2	39.64	mg/L	0.072	79.28	mg/L	0.143	0.18%
Mn 257.610†	139765.0	5.161	mg/L	0.0013	10.32	mg/L	0.003	0.03%
Mo 202.031†	17.9	0.00515	mg/L	0.000343	0.01030	mg/L	0.000686	6.66%
Na 589.592†	7315.9	1.232	mg/L	0.0079	2.464	mg/L	0.0159	0.64%
Na 330.237†	-3.6	2.146	mg/L	0.4769	4.292	mg/L	0.9539	22.23%
Ni 231.604†	442.3	0.2145	mg/L	0.00332	0.4290	mg/L	0.00664	1.55%
Pb 220.353†	369.0	0.07673	mg/L	0.001014	0.1535	mg/L	0.00203	1.32%
Sb 206.836†	16.8	0.02220	mg/L	0.002144	0.04439	mg/L	0.004289	9.66%
Se 196.026†	-72.7	-0.05121	mg/L	0.001142	-0.1024	mg/L	0.00228	2.23%
Si 288.158†	1924.2	1.349	mg/L	0.0062	2.698	mg/L	0.0124	0.46%
Sn 189.927†	-26.5	-0.00055	mg/L	0.001067	-0.00109	mg/L	0.002134	195.63%
Sr 421.552†	102606.7	0.1511	mg/L	0.00043	0.3023	mg/L	0.00085	0.28%
Ti 334.903†	289898.9	11.07	mg/L	0.012	22.14	mg/L	0.024	0.11%
Tl 190.801†	-8.5	-0.01841	mg/L	0.000687	-0.03683	mg/L	0.001373	3.73%
V 292.402†	142342.1	0.4765	mg/L	0.00181	0.9529	mg/L	0.00362	0.38%
Zn 206.200†	416.1	0.3890	mg/L	0.00097	0.7779	mg/L	0.00195	0.25%

Sequence No.: 25
 Sample ID: JS91 O SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 41
 Date Collected: 8/24/2006 1:30:59 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 O SWC

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: JS91 O SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2024379.6		116.6 %	0.62				0.54%
ScR 361.383	259443.7		124.6 %	0.32				0.25%
Ag 328.068†	-2180.0	-0.00066	mg/L	0.000148	-0.00131	mg/L	0.000296	22.56%
Al 308.215†	224604.3		165.1 mg/L	0.14	330.2	mg/L	0.28	0.08%
As 188.979†	84.8	0.03930	mg/L	0.003638	0.07860	mg/L	0.007277	9.26%
B 249.677†	73.3	0.02209	mg/L	0.001774	0.04418	mg/L	0.003547	8.03%
Ba 233.527†	1746.6	0.5066	mg/L	0.00271	1.013	mg/L	0.0054	0.53%
Be 313.042†	1707.6	0.00209	mg/L	0.000025	0.00417	mg/L	0.000050	1.20%
Ca 317.933†	1063115.2		46.00 mg/L	0.053	92.00	mg/L	0.106	0.11%
Cd 228.802†	60.3	0.00010	mg/L	0.000065	0.00020	mg/L	0.000129	63.64%
Co 228.616†	2927.2	0.05641	mg/L	0.000620	0.1128	mg/L	0.00124	1.10%
Cr 267.716†	1736.7	0.2104	mg/L	0.00297	0.4207	mg/L	0.00594	1.41%
Cu 324.752†	31899.8	0.1301	mg/L	0.00012	0.2603	mg/L	0.00023	0.09%
Fe 273.955†	144536.8		155.5 mg/L	0.37	311.1	mg/L	0.73	0.24%
K 766.490†	6318.4	4.083	mg/L	0.0209	8.167	mg/L	0.0418	0.51%
Mg 279.077†	64484.3	40.64	mg/L	0.051	81.27	mg/L	0.101	0.12%
Mn 257.610†	60429.8	2.231	mg/L	0.0033	4.461	mg/L	0.0065	0.15%
Mo 202.031†	29.4	0.00538	mg/L	0.000150	0.01076	mg/L	0.000299	2.78%
Na 589.592†	10931.4	1.841	mg/L	0.0110	3.682	mg/L	0.0220	0.60%
Na 330.237†	28.0	2.874	mg/L	0.1444	5.749	mg/L	0.2887	5.02%
Ni 231.604†	440.2	0.2134	mg/L	0.00083	0.4269	mg/L	0.00167	0.39%
Pb 220.353†	-44.6	0.02755	mg/L	0.000576	0.05510	mg/L	0.001151	2.09%
Sb 206.836†	13.8	0.01847	mg/L	0.000912	0.03694	mg/L	0.001824	4.94%
Se 196.026†	-70.7	-0.04663	mg/L	0.004932	-0.09326	mg/L	0.009863	10.58%
Si 288.158†	1943.1	1.362	mg/L	0.0077	2.724	mg/L	0.0153	0.56%
Sn 189.927†	-22.8	0.00060	mg/L	0.000853	0.00120	mg/L	0.001706	142.12%
Sr 421.552†	145901.5	0.2149	mg/L	0.00025	0.4298	mg/L	0.00050	0.12%
Ti 334.903†	247662.1	9.458	mg/L	0.0106	18.92	mg/L	0.021	0.11%
Tl 190.801†	-6.5	-0.01517	mg/L	0.000414	-0.03033	mg/L	0.000827	2.73%
V 292.402†	128589.7	0.4303	mg/L	0.00047	0.8605	mg/L	0.00094	0.11%
Zn 206.200†	329.4	0.3076	mg/L	0.00133	0.6153	mg/L	0.00266	0.43%

Sequence No.: 26
 Sample ID: JS91 P SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 42
 Date Collected: 8/24/2006 1:37:13 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 P SWC

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: JS91 P SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2052140.5		118.2 %	0.55				0.46%
ScR 361.383	258842.9		124.3 %	0.64				0.51%
Ag 328.068†	-1942.6	-0.00041	mg/L	0.000180	-0.00083	mg/L	0.000360	43.41%
Al 308.215†	216779.1		159.4 mg/L	0.45	318.7	mg/L	0.90	0.28%
As 188.979†	74.3	0.02985	mg/L	0.003537	0.05969	mg/L	0.007074	11.85%
B 249.677†	43.9	0.01201	mg/L	0.001745	0.02401	mg/L	0.003489	14.53%
Ba 233.527†	1896.5	0.5519	mg/L	0.00221	1.104	mg/L	0.0044	0.40%
Be 313.042†	1502.6	0.00181	mg/L	0.000031	0.00362	mg/L	0.000062	1.72%
Ca 317.933†	873084.5		37.78 mg/L	0.117	75.55	mg/L	0.234	0.31%
Cd 228.802†	45.9	-0.00019	mg/L	0.000127	-0.00038	mg/L	0.000254	67.71%
Co 228.616†	2762.6	0.05213	mg/L	0.000135	0.1043	mg/L	0.00027	0.26%
Cr 267.716†	1571.9	0.1901	mg/L	0.00132	0.3803	mg/L	0.00264	0.70%
Cu 324.752†	26051.9	0.1074	mg/L	0.00036	0.2147	mg/L	0.00072	0.34%
Fe 273.955†	133185.3		143.3 mg/L	0.50	286.7	mg/L	1.00	0.35%
K 766.490†	7403.5	4.785	mg/L	0.0216	9.569	mg/L	0.0431	0.45%
Mg 279.077†	61436.0	38.72	mg/L	0.094	77.44	mg/L	0.187	0.24%
Mn 257.610†	58792.2	2.170	mg/L	0.0053	4.340	mg/L	0.0107	0.25%
Mo 202.031†	24.6	0.00486	mg/L	0.000052	0.00972	mg/L	0.000105	1.08%
Na 589.592†	10556.9	1.778	mg/L	0.0118	3.556	mg/L	0.0237	0.67%
Na 330.237†	18.6	2.664	mg/L	0.5862	5.329	mg/L	1.1725	22.00%
Ni 231.604†	450.9	0.2186	mg/L	0.00298	0.4372	mg/L	0.00595	1.36%
Pb 220.353†	-76.5	0.02316	mg/L	0.000505	0.04633	mg/L	0.001009	2.18%
Sb 206.836†	6.6	0.01248	mg/L	0.001725	0.02496	mg/L	0.003451	13.82%
Se 196.026†	-64.7	-0.04283	mg/L	0.004669	-0.08566	mg/L	0.009337	10.90%
Si 288.158†	3765.3	2.639	mg/L	0.0085	5.279	mg/L	0.0170	0.32%
Sn 189.927†	-15.4	0.00064	mg/L	0.000959	0.00128	mg/L	0.001918	149.79%
Sr 421.552†	163315.6	0.2406	mg/L	0.00064	0.4811	mg/L	0.00127	0.26%
Ti 334.903†	252232.1	9.633	mg/L	0.0250	19.27	mg/L	0.050	0.26%
Tl 190.801†	-3.7	-0.01280	mg/L	0.002652	-0.02560	mg/L	0.005305	20.72%
V 292.402†	118260.8	0.3953	mg/L	0.00103	0.7905	mg/L	0.00206	0.26%
Zn 206.200†	313.0	0.2923	mg/L	0.00067	0.5847	mg/L	0.00135	0.23%

Sequence No.: 27
 Sample ID: JS91 REF2 SWC
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 43
 Date Collected: 8/24/2006 1:43:27 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 REF2 SWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS91 REF2 SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2007874.7		115.7 %	0.31				0.27%
ScR 361.383	257965.7		123.9 %	0.71				0.58%
Ag 328.068†	361405.2		1.148 mg/L	0.0033	2.297	mg/L	0.0066	0.29%
Al 308.215†	128238.5		94.25 mg/L	0.173	188.5	mg/L	0.35	0.18%
As 188.979†	1158.0		1.086 mg/L	0.0069	2.173	mg/L	0.0138	0.64%
B 249.677†	1973.4		0.6688 mg/L	0.00954	1.338	mg/L	0.0191	1.43%
Ba 233.527†	5679.0		1.674 mg/L	0.0224	3.347	mg/L	0.0448	1.34%
Be 313.042†	337811.4		0.5451 mg/L	0.00091	1.090	mg/L	0.0018	0.17%
Ca 317.933†	995435.0		43.07 mg/L	0.072	86.14	mg/L	0.144	0.17%
Cd 228.802†	20834.4		0.6110 mg/L	0.00151	1.222	mg/L	0.0030	0.25%
Co 228.616†	32855.2		0.8191 mg/L	0.00423	1.638	mg/L	0.0085	0.52%
Cr 267.716†	5914.2		0.7044 mg/L	0.00945	1.409	mg/L	0.0189	1.34%
Cu 324.752†	244215.4		0.9145 mg/L	0.00156	1.829	mg/L	0.0031	0.17%
Fe 273.955†	132607.2		142.7 mg/L	0.45	285.4	mg/L	0.90	0.31%
K 766.490†	36860.5		23.82 mg/L	0.098	47.64	mg/L	0.197	0.41%
Mg 279.077†	51076.8		32.18 mg/L	0.122	64.35	mg/L	0.245	0.38%
Mn 257.610†	129653.6		4.789 mg/L	0.0102	9.578	mg/L	0.0203	0.21%
Mo 202.031†	2496.4		0.2298 mg/L	0.00136	0.4597	mg/L	0.00272	0.59%
Na 589.592†	13972.5		2.353 mg/L	0.0023	4.707	mg/L	0.0047	0.10%
Na 330.237†	100.7		3.429 mg/L	0.2312	6.859	mg/L	0.4624	6.74%
Ni 231.604†	1165.2		0.5653 mg/L	0.00616	1.131	mg/L	0.0123	1.09%
Pb 220.353†	12583.6		1.305 mg/L	0.0070	2.610	mg/L	0.0140	0.54%
Sb 206.836†	517.1		0.4631 mg/L	0.00505	0.9262	mg/L	0.01010	1.09%
Se 196.026†	1838.8		1.142 mg/L	0.0035	2.284	mg/L	0.0070	0.30%
Si 288.158†	5959.4		4.178 mg/L	0.0606	8.356	mg/L	0.1212	1.45%
Sn 189.927†	4984.9		1.018 mg/L	0.0054	2.035	mg/L	0.0108	0.53%
Sr 421.552†	396068.3		0.5834 mg/L	0.00078	1.167	mg/L	0.0016	0.13%
Ti 334.903†	94665.5		3.615 mg/L	0.0083	7.230	mg/L	0.0166	0.23%
Tl 190.801†	2311.7		1.975 mg/L	0.0113	3.950	mg/L	0.0227	0.57%
V 292.402†	375560.8		1.269 mg/L	0.0044	2.537	mg/L	0.0087	0.34%
Zn 206.200†	2790.4		2.633 mg/L	0.0391	5.266	mg/L	0.0782	1.48%

Sequence No.: 28
 Sample ID: CV
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 7
 Date Collected: 8/24/2006 1:49:42 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1924584.7		110.9 %	0.25				0.22%
ScR 361.383	247078.9		118.6 %	0.91				0.77%
Ag 328.068†	318516.7		1.007 mg/L	0.0037	1.007 mg/L	0.0037		0.37%
Al 308.215†	2762.1		1.993 mg/L	0.0200	1.993 mg/L	0.0200		1.00%
As 188.979†	2211.8		2.111 mg/L	0.0022	2.111 mg/L	0.0022		0.11%
B 249.677†	2906.5	0.9880	mg/L	0.01013	0.9880 mg/L	0.01013		1.03%
Ba 233.527†	3284.2	0.9735	mg/L	0.01267	0.9735 mg/L	0.01267		1.30%
Be 313.042†	625654.3	1.012	mg/L	0.0043	1.012 mg/L	0.0043		0.42%
Ca 317.933†	49216.2	2.129	mg/L	0.0089	2.129 mg/L	0.0089		0.42%
Cd 228.802†	35451.2	1.042	mg/L	0.0023	1.042 mg/L	0.0023		0.22%
Co 228.616†	40592.8	1.021	mg/L	0.0047	1.021 mg/L	0.0047		0.46%
Cr 267.716†	8127.3	0.9615	mg/L	0.01194	0.9615 mg/L	0.01194		1.24%
Cu 324.752†	283250.4	1.046	mg/L	0.0037	1.046 mg/L	0.0037		0.35%
Fe 273.955†	1920.9	2.065	mg/L	0.0246	2.065 mg/L	0.0246		1.19%
K 766.490†	30068.0	19.43	mg/L	0.039	19.43 mg/L	0.039		0.20%
Mg 279.077†	3386.1	2.144	mg/L	0.0268	2.144 mg/L	0.0268		1.25%
Mn 257.610†	25908.5	0.9577	mg/L	0.00386	0.9577 mg/L	0.00386		0.40%
Mo 202.031†	10932.0	1.001	mg/L	0.0057	1.001 mg/L	0.0057		0.57%
Na 589.592†	291617.5	49.12	mg/L	0.179	49.12 mg/L	0.179		0.36%
Na 330.237†	1411.7	50.04	mg/L	0.375	50.04 mg/L	0.375		0.75%
Ni 231.604†	2085.7	1.013	mg/L	0.0172	1.013 mg/L	0.0172		1.70%
Pb 220.353†	20377.2	2.084	mg/L	0.0145	2.084 mg/L	0.0145		0.69%
Sb 206.836†	2464.3	2.168	mg/L	0.0053	2.168 mg/L	0.0053		0.24%
Se 196.026†	3430.5	2.140	mg/L	0.0026	2.140 mg/L	0.0026		0.12%
Si 288.158†	2929.3	2.055	mg/L	0.0194	2.055 mg/L	0.0194		0.94%
Sn 189.927†	4919.8	1.002	mg/L	0.0026	1.002 mg/L	0.0026		0.26%
Sr 421.552†	663747.5	0.9777	mg/L	0.00413	0.9777 mg/L	0.00413		0.42%
Ti 334.903†	26818.3	1.023	mg/L	0.0049	1.023 mg/L	0.0049		0.48%
Tl 190.801†	2395.7	2.052	mg/L	0.0065	2.052 mg/L	0.0065		0.32%
V 292.402†	303768.3	1.030	mg/L	0.0037	1.030 mg/L	0.0037		0.36%
Zn 206.200†	1107.7	1.046	mg/L	0.0140	1.046 mg/L	0.0140		1.33%

Sequence No.: 29
 Sample ID: CB 4
 Analyst: JLB
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/24/2006 1:55:55 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 169.0 kPa 0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1764503.2	101.6	%	0.85			0.84%
ScR 361.383	223780.9	107.4	%	1.09			1.02%
Ag 328.068†	-69.7	-0.00022	mg/L	0.000466	-0.00022 mg/L	0.000466	211.59%
Al 308.215†	33.2	0.02437	mg/L	0.007620	0.02437 mg/L	0.007620	31.27%
As 188.979†	4.8	0.00460	mg/L	0.002738	0.00460 mg/L	0.002738	59.50%
B 249.677†	13.6	0.00463	mg/L	0.001878	0.00463 mg/L	0.001878	40.55%
Ba 233.527†	-3.3	-0.00098	mg/L	0.000734	-0.00098 mg/L	0.000734	75.03%
Be 313.042†	-54.8	-0.00009	mg/L	0.000032	-0.00009 mg/L	0.000032	36.37%
Ca 317.933†	-10.0	-0.00043	mg/L	0.001080	-0.00043 mg/L	0.001080	250.41%
Cd 228.802†	6.4	0.00018	mg/L	0.000041	0.00018 mg/L	0.000041	22.47%
Co 228.616†	3.5	0.00009	mg/L	0.000050	0.00009 mg/L	0.000050	56.34%
Cr 267.716†	14.0	0.00165	mg/L	0.000480	0.00165 mg/L	0.000480	29.05%
Cu 324.752†	19.8	0.00007	mg/L	0.000308	0.00007 mg/L	0.000308	421.78%
Fe 273.955†	4.0	0.00434	mg/L	0.004222	0.00434 mg/L	0.004222	97.24%
K 766.490†	-92.8	-0.05998	mg/L	0.027146	-0.05998 mg/L	0.027146	45.26%
Mg 279.077†	6.9	0.00438	mg/L	0.015573	0.00438 mg/L	0.015573	355.44%
Mn 257.610†	6.7	0.00025	mg/L	0.000159	0.00025 mg/L	0.000159	64.55%
Mo 202.031†	5.4	0.00049	mg/L	0.000704	0.00049 mg/L	0.000704	142.36%
Na 589.592†	-445.8	-0.07508	mg/L	0.004729	-0.07508 mg/L	0.004729	6.30%
Na 330.237†	14.7	0.5206	mg/L	0.41901	0.5206 mg/L	0.41901	80.49%
Ni 231.604†	-7.0	-0.00337	mg/L	0.002642	-0.00337 mg/L	0.002642	78.33%
Pb 220.353†	3.0	0.00031	mg/L	0.000361	0.00031 mg/L	0.000361	116.11%
Sb 206.836†	-1.3	-0.00112	mg/L	0.002540	-0.00112 mg/L	0.002540	227.74%
Se 196.026†	8.6	0.00534	mg/L	0.003936	0.00534 mg/L	0.003936	73.76%
Si 288.158†	6.3	0.00443	mg/L	0.005395	0.00443 mg/L	0.005395	121.74%
Sn 189.927†	9.1	0.00184	mg/L	0.001069	0.00184 mg/L	0.001069	58.07%
Sr 421.552†	-10.6	-0.00002	mg/L	0.000031	-0.00002 mg/L	0.000031	198.41%
Ti 334.903†	2.4	0.00009	mg/L	0.001159	0.00009 mg/L	0.001159	>999.9%
Tl 190.801†	3.4	0.00292	mg/L	0.005239	0.00292 mg/L	0.005239	179.23%
V 292.402†	67.2	0.00024	mg/L	0.000179	0.00024 mg/L	0.000179	75.32%
Zn 206.200†	0.5	0.00046	mg/L	0.000701	0.00046 mg/L	0.000701	150.90%

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Analysis BegunStart Time: 8/24/2006 2:00:55 PM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Plasma On Time: 8/24/2006 7:57:55 AM
Technique: ICP Continuous
Autosampler Model: AS-93plusSample Information File: C:\pe\Administrator\Sample Information\0824A.sif
Batch ID:
Results Data Set: PE060824
Results Library: C:\pe\Administrator\Results\Results.mdb=====
Sequence No.: 1
Sample ID: JS63 MB TWC
Analyst: BLW
Initial Sample Wt:
Dilution: 1X
Autosampler Location: 44
Date Collected: 8/24/2006 2:00:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:-----
Nebulizer Parameters: JS63 MB TWCAnalyte Back Pressure Flow
All 169.0 kPa 0.50 L/min-----
Mean Data: JS63 MB TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1718124.9		98.97 %	0.340				0.34%
ScR 361.383	213549.5		102.5 %	0.28				0.27%
Ag 328.068†	-36.7	-0.00012	mg/L	0.000179	-0.00012	mg/L	0.000179	154.30%
Al 308.215†	28.0	0.02058	mg/L	0.011220	0.02058	mg/L	0.011220	54.51%
As 188.979†	7.9	0.00754	mg/L	0.001953	0.00754	mg/L	0.001953	25.89%
B 249.677†	2.9	0.00098	mg/L	0.001796	0.00098	mg/L	0.001796	184.23%
Ba 233.527†	-3.8	-0.00114	mg/L	0.000347	-0.00114	mg/L	0.000347	30.44%
Be 313.042†	-19.2	-0.00003	mg/L	0.000041	-0.00003	mg/L	0.000041	130.75%
Ca 317.933†	184.2	0.00797	mg/L	0.001458	0.00797	mg/L	0.001458	18.29%
Cd 228.802†	2.1	0.00005	mg/L	0.000027	0.00005	mg/L	0.000027	53.18%
Co 228.616†	7.6	0.00019	mg/L	0.000275	0.00019	mg/L	0.000275	143.39%
Cr 267.716†	16.4	0.00194	mg/L	0.000215	0.00194	mg/L	0.000215	11.08%
Cu 324.752†	36.4	0.00013	mg/L	0.000178	0.00013	mg/L	0.000178	132.03%
Fe 273.955†	4.9	0.00522	mg/L	0.001881	0.00522	mg/L	0.001881	35.99%
K 766.490†	-0.8	-0.00054	mg/L	0.019072	-0.00054	mg/L	0.019072	>999.9%
Mg 279.077†	10.4	0.00656	mg/L	0.011169	0.00656	mg/L	0.011169	170.35%
Mn 257.610†	13.0	0.00048	mg/L	0.000184	0.00048	mg/L	0.000184	38.25%
Mo 202.031†	0.7	0.00006	mg/L	0.000544	0.00006	mg/L	0.000544	874.43%
Na 589.592†	-500.4	-0.08428	mg/L	0.002061	-0.08428	mg/L	0.002061	2.45%
Na 330.237†	-9.8	-0.3501	mg/L	0.17721	-0.3501	mg/L	0.17721	50.61%
Ni 231.604†	-4.2	-0.00202	mg/L	0.000987	-0.00202	mg/L	0.000987	48.94%
Pb 220.353†	-1.3	-0.00013	mg/L	0.000372	-0.00013	mg/L	0.000372	294.21%
Sb 206.836†	-1.8	-0.00164	mg/L	0.001640	-0.00164	mg/L	0.001640	100.26%
Se 196.026†	2.0	0.00123	mg/L	0.001630	0.00123	mg/L	0.001630	132.46%
Si 288.158†	17.4	0.01221	mg/L	0.006450	0.01221	mg/L	0.006450	52.81%
Sn 189.927†	8.5	0.00172	mg/L	0.001732	0.00172	mg/L	0.001732	100.52%
Sr 421.552†	26.4	0.00004	mg/L	0.000085	0.00004	mg/L	0.000085	219.98%
Ti 334.903†	2.6	0.00010	mg/L	0.001218	0.00010	mg/L	0.001218	>999.9%
Tl 190.801†	4.8	0.00409	mg/L	0.001482	0.00409	mg/L	0.001482	36.22%
V 292.402†	55.7	0.00020	mg/L	0.000124	0.00020	mg/L	0.000124	61.65%
Zn 206.200†	5.4	0.00511	mg/L	0.002559	0.00511	mg/L	0.002559	50.03%

Sequence No.: 2
 Sample ID: JS63 A TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 45
 Date Collected: 8/24/2006 2:07:19 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS63 A TWC

Analyte Back Pressure Flow
 All 169.0 kPa 0.50 L/min

Mean Data: JS63 A TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1647462.4	94.90 %		0.223			0.24%
ScR 361.383	206681.6	99.23 %		0.363			0.37%
Ag 328.068†	-58.2	-0.00017 mg/L		0.000205	-0.00017 mg/L	0.000205	119.03%
Al 308.215†	35.6	0.02545 mg/L		0.019564	0.02545 mg/L	0.019564	76.87%
As 188.979†	14.2	0.01223 mg/L		0.001187	0.01223 mg/L	0.001187	9.70%
B 249.677†	8.3	0.00283 mg/L		0.001423	0.00283 mg/L	0.001423	50.33%
Ba 233.527†	337.2	0.10000 mg/L		0.000974	0.10000 mg/L	0.000974	0.97%
Be 313.042†	29.4	-0.00001 mg/L		0.000038	-0.00001 mg/L	0.000038	296.72%
Ca 317.933†	546740.5	23.66 mg/L		0.062	23.66 mg/L	0.062	0.26%
Cd 228.802†	3.9	0.00009 mg/L		0.000039	0.00009 mg/L	0.000039	41.93%
Co 228.616†	8.9	0.00020 mg/L		0.000156	0.00020 mg/L	0.000156	78.32%
Cr 267.716†	24.6	0.00160 mg/L		0.000989	0.00160 mg/L	0.000989	61.75%
Cu 324.752†	323.8	0.00112 mg/L		0.000365	0.00112 mg/L	0.000365	32.53%
Fe 273.955†	15.8	0.01695 mg/L		0.001642	0.01695 mg/L	0.001642	9.69%
K 766.490†	10640.2	6.876 mg/L		0.0251	6.876 mg/L	0.0251	0.36%
Mg 279.077†	13537.3	8.555 mg/L		0.0460	8.555 mg/L	0.0460	0.54%
Mn 257.610†	36.3	0.00106 mg/L		0.000150	0.00106 mg/L	0.000150	14.06%
Mo 202.031†	30.7	0.00261 mg/L		0.000255	0.00261 mg/L	0.000255	9.76%
Na 589.592†	86874.6	14.63 mg/L		0.045	14.63 mg/L	0.045	0.31%
Na 330.237†	441.9	15.46 mg/L		0.362	15.46 mg/L	0.362	2.34%
Ni 231.604†	2.7	0.00129 mg/L		0.001786	0.00129 mg/L	0.001786	138.55%
Pb 220.353†	5.3	0.00056 mg/L		0.001413	0.00056 mg/L	0.001413	254.25%
Sb 206.836†	1.2	0.00107 mg/L		0.003363	0.00107 mg/L	0.003363	313.98%
Se 196.026†	-11.2	-0.00696 mg/L		0.006184	-0.00696 mg/L	0.006184	88.83%
Si 288.158†	4156.4	2.913 mg/L		0.0180	2.913 mg/L	0.0180	0.62%
Sn 189.927†	-24.8	-0.00105 mg/L		0.000848	-0.00105 mg/L	0.000848	80.51%
Sr 421.552†	127469.5	0.1878 mg/L		0.00033	0.1878 mg/L	0.00033	0.18%
Ti 334.903†	26.5	0.00101 mg/L		0.000569	0.00101 mg/L	0.000569	56.37%
Tl 190.801†	1.3	0.00105 mg/L		0.002634	0.00105 mg/L	0.002634	251.34%
V 292.402†	11455.0	0.03859 mg/L		0.000211	0.03859 mg/L	0.000211	0.55%
Zn 206.200†	5.5	0.00555 mg/L		0.000715	0.00555 mg/L	0.000715	12.89%

Sequence No.: 3
 Sample ID: JS63 B TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 46
 Date Collected: 8/24/2006 2:13:59 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS63 B TWC

Analyte Back Pressure Flow
 All 169.0 kPa 0.50 L/min

Mean Data: JS63 B TWC

Analyte	Mean Corrected			Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.	Calib Units		Conc.	Units		
ScA 357.253	1591665.8	91.69	%	0.617				0.67%
ScR 361.383	204076.6	97.98	%	0.622				0.63%
Ag 328.068†	-416.8	-0.00131	mg/L	0.000147	-0.00131	mg/L	0.000147	11.19%
Al 308.215†	30.9	0.02216	mg/L	0.004729	0.02216	mg/L	0.004729	21.34%
As 188.979†	22.4	0.01217	mg/L	0.002425	0.01217	mg/L	0.002425	19.92%
B 249.677†	2.2	0.00076	mg/L	0.000438	0.00076	mg/L	0.000438	57.45%
Ba 233.527†	420.2	0.1246	mg/L	0.00209	0.1246	mg/L	0.00209	1.68%
Be 313.042†	45.3	0.00003	mg/L	0.000012	0.00003	mg/L	0.000012	36.89%
Ca 317.933†	3814178.5	165.0	mg/L	0.35	165.0	mg/L	0.35	0.21%
Cd 228.802†	-1.9	-0.00009	mg/L	0.000202	-0.00009	mg/L	0.000202	221.66%
Co 228.616†	19.8	0.00046	mg/L	0.000226	0.00046	mg/L	0.000226	49.03%
Cr 267.716†	40.5	-0.00223	mg/L	0.000448	-0.00223	mg/L	0.000448	20.13%
Cu 324.752†	874.2	0.00283	mg/L	0.000222	0.00283	mg/L	0.000222	7.83%
Fe 273.955†	19.3	0.02068	mg/L	0.000233	0.02068	mg/L	0.000233	1.12%
K 766.490†	3051.1	1.972	mg/L	0.0345	1.972	mg/L	0.0345	1.75%
Mg 279.077†	72638.4	45.90	mg/L	0.526	45.90	mg/L	0.526	1.15%
Mn 257.610†	58.5	0.00047	mg/L	0.000022	0.00047	mg/L	0.000022	4.67%
Mo 202.031†	73.5	0.00564	mg/L	0.000359	0.00564	mg/L	0.000359	6.36%
Na 589.592†	339125.4	57.12	mg/L	0.248	57.12	mg/L	0.248	0.43%
Na 330.237†	1701.8	58.88	mg/L	0.829	58.88	mg/L	0.829	1.41%
Ni 231.604†	5.0	0.00241	mg/L	0.001552	0.00241	mg/L	0.001552	64.34%
Pb 220.353†	22.7	0.00233	mg/L	0.000366	0.00233	mg/L	0.000366	15.72%
Sb 206.836†	6.3	0.00532	mg/L	0.001499	0.00532	mg/L	0.001499	28.17%
Se 196.026†	-23.6	-0.01472	mg/L	0.007053	-0.01472	mg/L	0.007053	47.91%
Si 288.158†	3427.0	2.402	mg/L	0.0213	2.402	mg/L	0.0213	0.89%
Sn 189.927†	-108.9	0.00598	mg/L	0.000507	0.00598	mg/L	0.000507	8.47%
Sr 421.552†	441885.8	0.6509	mg/L	0.00241	0.6509	mg/L	0.00241	0.37%
Ti 334.903†	154.7	0.00590	mg/L	0.000694	0.00590	mg/L	0.000694	11.77%
Tl 190.801†	-14.7	-0.01269	mg/L	0.003060	-0.01269	mg/L	0.003060	24.11%
V 292.402†	7825.4	0.02638	mg/L	0.000432	0.02638	mg/L	0.000432	1.64%
Zn 206.200†	-4.8	-0.00237	mg/L	0.001526	-0.00237	mg/L	0.001526	64.29%

Sequence No.: 4
 Sample ID: JS91 Q SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 47
 Date Collected: 8/24/2006 2:20:43 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 Q SWC

Analyte Back Pressure Flow
 All 168.0 kPa 0.50 L/min

Mean Data: JS91 Q SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1675609.3		96.52 %	0.398				0.41%
ScR 361.383	212795.2		102.2 %	0.48				0.47%
Ag 328.068†	-2504.2		-0.00080 mg/L	0.000226	-0.00160 mg/L	0.000451	28.25%	
Al 308.215†	244861.3		180.0 mg/L	0.34	360.0 mg/L	0.68	0.19%	
As 188.979†	91.6		0.04173 mg/L	0.001257	0.08346 mg/L	0.002514	3.01%	
B 249.677†	66.0		0.01934 mg/L	0.002092	0.03867 mg/L	0.004184	10.82%	
Ba 233.527†	2193.4		0.6373 mg/L	0.00294	1.275 mg/L	0.0059	0.46%	
Be 313.042†	2126.9		0.00269 mg/L	0.000028	0.00539 mg/L	0.000055	1.03%	
Ca 317.933†	1162594.3		50.30 mg/L	0.059	100.6 mg/L	0.12	0.12%	
Cd 228.802†	72.2		0.00020 mg/L	0.000072	0.00040 mg/L	0.000145	36.50%	
Co 228.616†	3396.5		0.06619 mg/L	0.000219	0.1324 mg/L	0.00044	0.33%	
Cr 267.716†	1919.4		0.2324 mg/L	0.00185	0.4648 mg/L	0.00370	0.80%	
Cu 324.752†	40715.1		0.1647 mg/L	0.00066	0.3294 mg/L	0.00133	0.40%	
Fe 273.955†	166809.1		179.5 mg/L	1.23	359.0 mg/L	2.45	0.68%	
K 766.490†	8847.9		5.718 mg/L	0.0483	11.44 mg/L	0.097	0.84%	
Mg 279.077†	75753.2		47.74 mg/L	0.062	95.48 mg/L	0.123	0.13%	
Mn 257.610†	81600.2		3.012 mg/L	0.0093	6.025 mg/L	0.0185	0.31%	
Mo 202.031†	37.5		0.00629 mg/L	0.000540	0.01257 mg/L	0.001080	8.59%	
Na 589.592†	15016.9		2.529 mg/L	0.0188	5.059 mg/L	0.0377	0.74%	
Na 330.237†	16.1		2.654 mg/L	0.1030	5.309 mg/L	0.2059	3.88%	
Ni 231.604†	511.6		0.2481 mg/L	0.00437	0.4961 mg/L	0.00874	1.76%	
Pb 220.353†	114.6		0.04671 mg/L	0.000520	0.09342 mg/L	0.001039	1.11%	
Sb 206.836†	13.9		0.01923 mg/L	0.007125	0.03845 mg/L	0.014250	37.06%	
Se 196.026†	-78.5		-0.05244 mg/L	0.009863	-0.1049 mg/L	0.01973	18.81%	
Si 288.158†	2663.6		1.867 mg/L	0.0112	3.734 mg/L	0.0224	0.60%	
Sn 189.927†	-33.8		-0.00126 mg/L	0.002688	-0.00252 mg/L	0.005375	213.33%	
Sr 421.552†	201707.1		0.2971 mg/L	0.00064	0.5942 mg/L	0.00128	0.21%	
Ti 334.903†	273300.4		10.44 mg/L	0.022	20.87 mg/L	0.044	0.21%	
Tl 190.801†	-6.2		-0.01593 mg/L	0.003104	-0.03185 mg/L	0.006209	19.49%	
V 292.402†	142155.8		0.4758 mg/L	0.00121	0.9515 mg/L	0.00242	0.25%	
Zn 206.200†	357.6		0.3337 mg/L	0.00207	0.6675 mg/L	0.00413	0.62%	

Sequence No.: 5
 Sample ID: JS91 R SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 48
 Date Collected: 8/24/2006 2:26:58 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 R SWC

Analyte Back Pressure Flow
 All 169.0 kPa 0.50 L/min

Mean Data: JS91 R SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1716767.4	98.89 %		0.454			0.46%
ScR 361.383	216085.8	103.7 %		0.45			0.43%
Ag 328.068†	-2145.9	-0.00038 mg/L		0.000051	-0.00076 mg/L	0.000101	13.26%
Al 308.215†	215095.4	158.1 mg/L		0.36	316.2 mg/L	0.72	0.23%
As 188.979†	75.1	0.03052 mg/L		0.004360	0.06104 mg/L	0.008719	14.28%
B 249.677†	43.0	0.01173 mg/L		0.000957	0.02346 mg/L	0.001914	8.16%
Ba 233.527†	1886.4	0.5477 mg/L		0.00350	1.095 mg/L	0.0070	0.64%
Be 313.042†	1730.8	0.00215 mg/L		0.000034	0.00429 mg/L	0.000068	1.58%
Ca 317.933†	1001160.8	43.32 mg/L		0.071	86.64 mg/L	0.143	0.16%
Cd 228.802†	61.6	0.00010 mg/L		0.000103	0.00019 mg/L	0.000206	106.64%
Co 228.616†	3096.9	0.06021 mg/L		0.000724	0.1204 mg/L	0.00145	1.20%
Cr 267.716†	1601.7	0.1941 mg/L		0.00106	0.3881 mg/L	0.00212	0.55%
Cu 324.752†	32782.0	0.1338 mg/L		0.00020	0.2677 mg/L	0.00039	0.15%
Fe 273.955†	149539.7	160.9 mg/L		0.98	321.9 mg/L	1.96	0.61%
K 766.490†	7962.1	5.146 mg/L		0.0472	10.29 mg/L	0.094	0.92%
Mg 279.077†	70723.9	44.58 mg/L		0.083	89.15 mg/L	0.166	0.19%
Mn 257.610†	69216.1	2.555 mg/L		0.0092	5.110 mg/L	0.0184	0.36%
Mo 202.031†	30.4	0.00523 mg/L		0.000650	0.01046 mg/L	0.001301	12.44%
Na 589.592†	13732.1	2.313 mg/L		0.0149	4.626 mg/L	0.0299	0.65%
Na 330.237†	18.8	2.606 mg/L		0.4106	5.213 mg/L	0.8212	15.75%
Ni 231.604†	458.5	0.2223 mg/L		0.00252	0.4447 mg/L	0.00505	1.14%
Pb 220.353†	-90.5	0.02149 mg/L		0.000457	0.04297 mg/L	0.000915	2.13%
Sb 206.836†	12.4	0.01754 mg/L		0.000958	0.03507 mg/L	0.001916	5.46%
Se 196.026†	-75.5	-0.05005 mg/L		0.003531	-0.1001 mg/L	0.00706	7.05%
Si 288.158†	2573.3	1.804 mg/L		0.0146	3.608 mg/L	0.0293	0.81%
Sn 189.927†	-31.0	-0.00168 mg/L		0.000966	-0.00336 mg/L	0.001932	57.51%
Sr 421.552†	189932.1	0.2798 mg/L		0.00076	0.5595 mg/L	0.00151	0.27%
Ti 334.903†	250890.2	9.581 mg/L		0.0232	19.16 mg/L	0.046	0.24%
Tl 190.801†	-4.9	-0.01385 mg/L		0.005566	-0.02769 mg/L	0.011132	40.20%
V 292.402†	124580.9	0.4167 mg/L		0.00042	0.8333 mg/L	0.00084	0.10%
Zn 206.200†	318.2	0.2968 mg/L		0.00064	0.5937 mg/L	0.00127	0.21%

Sequence No.: 6
 Sample ID: JS91 S SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 49
 Date Collected: 8/24/2006 2:33:13 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 S SWC

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: JS91 S SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1894309.4		109.1 %	1.42				1.30%
ScR 361.383	232357.1		111.6 %	0.21				0.18%
Ag 328.068†	-1934.0	-0.00014	mg/L	0.000330	-0.00029	mg/L	0.000661	231.04%
Al 308.215†	268505.8		197.4 mg/L	0.49	394.8	mg/L	0.99	0.25%
As 188.979†	119.7	0.06900	mg/L	0.004941	0.1380	mg/L	0.00988	7.16%
B 249.677†	52.8	0.01489	mg/L	0.000072	0.02978	mg/L	0.000144	0.48%
Ba 233.527†	2564.1	0.7494	mg/L	0.00627	1.499	mg/L	0.0125	0.84%
Be 313.042†	2206.7	0.00292	mg/L	0.000017	0.00583	mg/L	0.000035	0.60%
Ca 317.933†	775931.7		33.57 mg/L	0.074	67.15	mg/L	0.148	0.22%
Cd 228.802†	79.6	0.00067	mg/L	0.000122	0.00133	mg/L	0.000244	18.31%
Co 228.616†	2560.1	0.04681	mg/L	0.000466	0.09362	mg/L	0.000931	0.99%
Cr 267.716†	1534.2	0.1871	mg/L	0.00174	0.3742	mg/L	0.00347	0.93%
Cu 324.752†	28086.2	0.1155	mg/L	0.00037	0.2309	mg/L	0.00074	0.32%
Fe 273.955†	139171.6		149.8 mg/L	0.54	299.5	mg/L	1.08	0.36%
K 766.490†	6176.9	3.992	mg/L	0.0280	7.984	mg/L	0.0561	0.70%
Mg 279.077†	51124.3		32.20 mg/L	0.109	64.40	mg/L	0.217	0.34%
Mn 257.610†	63782.1		2.354 mg/L	0.0077	4.709	mg/L	0.0153	0.33%
Mo 202.031†	17.8	0.00523	mg/L	0.000350	0.01047	mg/L	0.000701	6.69%
Na 589.592†	9542.4		1.607 mg/L	0.0106	3.214	mg/L	0.0212	0.66%
Na 330.237†	-3.8	2.003	mg/L	0.2450	4.006	mg/L	0.4900	12.23%
Ni 231.604†	361.2	0.1752	mg/L	0.00160	0.3503	mg/L	0.00320	0.91%
Pb 220.353†	286.8	0.06759	mg/L	0.001273	0.1352	mg/L	0.00255	1.88%
Sb 206.836†	9.7	0.01571	mg/L	0.001477	0.03142	mg/L	0.002954	9.40%
Se 196.026†	-66.2	-0.04401	mg/L	0.004232	-0.08802	mg/L	0.008465	9.62%
Si 288.158†	1917.3		1.344 mg/L	0.0142	2.688	mg/L	0.0284	1.06%
Sn 189.927†	-18.6	-0.00065	mg/L	0.001294	-0.00130	mg/L	0.002587	199.25%
Sr 421.552†	145646.9		0.2145 mg/L	0.00052	0.4291	mg/L	0.00104	0.24%
Ti 334.903†	262401.8		10.02 mg/L	0.024	20.04	mg/L	0.048	0.24%
Tl 190.801†	-10.3	-0.01887	mg/L	0.001279	-0.03774	mg/L	0.002559	6.78%
V 292.402†	124585.9		0.4164 mg/L	0.00123	0.8328	mg/L	0.00245	0.29%
Zn 206.200†	309.5		0.2889 mg/L	0.00281	0.5777	mg/L	0.00562	0.97%

Sequence No.: 7
 Sample ID: JS91 T SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 50
 Date Collected: 8/24/2006 2:39:29 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 T SWC

Analyte Back Pressure Flow
 All 169.0 kPa 0.50 L/min

Mean Data: JS91 T SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1970823.0		113.5 %	0.27				0.24%
ScR 361.383	248111.6		119.1 %	1.07				0.90%
Ag 328.068†	-2036.3	-0.00048	mg/L	0.000210	-0.00096	mg/L	0.000419	43.59%
Al 308.215†	209642.1		154.1 mg/L	0.08	308.2	mg/L	0.16	0.05%
As 188.979†	83.2	0.03695	mg/L	0.002051	0.07390	mg/L	0.004102	5.55%
B 249.677†	60.9	0.01769	mg/L	0.002373	0.03538	mg/L	0.004746	13.41%
Ba 233.527†	1777.8	0.5163	mg/L	0.00093	1.033	mg/L	0.0019	0.18%
Be 313.042†	1538.3	0.00184	mg/L	0.000023	0.00367	mg/L	0.000047	1.27%
Ca 317.933†	1181090.6		51.10 mg/L	0.103	102.2	mg/L	0.21	0.20%
Cd 228.802†	49.0	-0.00017	mg/L	0.000128	-0.00034	mg/L	0.000255	75.19%
Co 228.616†	3013.9	0.05749	mg/L	0.000522	0.1150	mg/L	0.00104	0.91%
Cr 267.716†	1769.0	0.2136	mg/L	0.00049	0.4272	mg/L	0.00097	0.23%
Cu 324.752†	26707.4	0.1102	mg/L	0.00011	0.2205	mg/L	0.00023	0.10%
Fe 273.955†	138701.9		149.3 mg/L	0.51	298.5	mg/L	1.01	0.34%
K 766.490†	7825.8	5.058	mg/L	0.0282	10.12	mg/L	0.056	0.56%
Mg 279.077†	64146.6	40.43	mg/L	0.153	80.86	mg/L	0.306	0.38%
Mn 257.610†	62634.7	2.312	mg/L	0.0044	4.624	mg/L	0.00087	0.19%
Mo 202.031†	30.7	0.00526	mg/L	0.000348	0.01052	mg/L	0.000696	6.61%
Na 589.592†	17016.6	2.866	mg/L	0.0185	5.732	mg/L	0.0369	0.64%
Na 330.237†	42.0	3.479	mg/L	0.5008	6.957	mg/L	1.0016	14.40%
Ni 231.604†	419.4	0.2033	mg/L	0.00234	0.4067	mg/L	0.00468	1.15%
Pb 220.353†	-111.5	0.01861	mg/L	0.000289	0.03722	mg/L	0.000578	1.55%
Sb 206.836†	9.6	0.01518	mg/L	0.001146	0.03036	mg/L	0.002292	7.55%
Se 196.026†	-65.1	-0.04323	mg/L	0.005520	-0.08646	mg/L	0.011040	12.77%
Si 288.158†	2739.0	1.920	mg/L	0.0167	3.840	mg/L	0.0335	0.87%
Sn 189.927†	-37.6	-0.00163	mg/L	0.000861	-0.00326	mg/L	0.001721	52.80%
Sr 421.552†	208880.0	0.3077	mg/L	0.00022	0.6153	mg/L	0.00044	0.07%
Ti 334.903†	263578.6	10.07	mg/L	0.007	20.13	mg/L	0.015	0.07%
Tl 190.801†	-2.4	-0.01213	mg/L	0.002620	-0.02425	mg/L	0.005240	21.61%
V 292.402†	124149.7	0.4151	mg/L	0.00041	0.8302	mg/L	0.00081	0.10%
Zn 206.200†	323.1	0.3019	mg/L	0.00141	0.6038	mg/L	0.00283	0.47%

Sequence No.: 8
 Sample ID: JS91 U SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 51
 Date Collected: 8/24/2006 2:45:45 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 U SWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS91 U SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2026965.8		116.8 %	0.21				0.18%
ScR 361.383	258440.2		124.1 %	1.35				1.08%
Ag 328.068†	-1575.1	0.00067	mg/L	0.000168	0.00133	mg/L	0.000335	25.15%
Al 308.215†	275052.4	0.00339	mg/L	0.21	404.4	mg/L	0.43	0.11%
As 188.979†	233.3	0.1783	mg/L	0.00437	0.3566	mg/L	0.00875	2.45%
B 249.677†	95.1	0.02969	mg/L	0.002101	0.05938	mg/L	0.004201	7.07%
Ba 233.527†	4548.9	1.337	mg/L	0.0104	2.673	mg/L	0.0208	0.78%
Be 313.042†	2488.2	0.00339	mg/L	0.000011	0.00679	mg/L	0.000021	0.31%
Ca 317.933†	1092766.2	47.28	mg/L	0.103	94.56	mg/L	0.205	0.22%
Cd 228.802†	164.7	0.00281	mg/L	0.000194	0.00562	mg/L	0.000387	6.89%
Co 228.616†	2843.4	0.05476	mg/L	0.000189	0.1095	mg/L	0.00038	0.34%
Cr 267.716†	2040.5	0.2448	mg/L	0.00164	0.4896	mg/L	0.00329	0.67%
Cu 324.752†	54007.4	0.2132	mg/L	0.00029	0.4264	mg/L	0.00058	0.13%
Fe 273.955†	157418.2	169.4	mg/L	0.84	338.8	mg/L	1.69	0.50%
K 766.490†	7322.5	4.732	mg/L	0.0300	9.465	mg/L	0.0600	0.63%
Mg 279.077†	55345.3	34.85	mg/L	0.063	69.70	mg/L	0.127	0.18%
Mn 257.610†	253541.7	9.365	mg/L	0.0129	18.73	mg/L	0.026	0.14%
Mo 202.031†	46.1	0.00787	mg/L	0.000300	0.01575	mg/L	0.000601	3.81%
Na 589.592†	10256.8	1.728	mg/L	0.0092	3.455	mg/L	0.0184	0.53%
Na 330.237†	36.5	3.031	mg/L	0.3202	6.063	mg/L	0.6403	10.56%
Ni 231.604†	505.8	0.2453	mg/L	0.00412	0.4905	mg/L	0.00824	1.68%
Pb 220.353†	2381.3	0.2826	mg/L	0.00192	0.5652	mg/L	0.00383	0.68%
Sb 206.836†	19.8	0.02300	mg/L	0.006420	0.04600	mg/L	0.012840	27.91%
Se 196.026†	-52.8	-0.04357	mg/L	0.003756	-0.08714	mg/L	0.007512	8.62%
Si 288.158†	2219.8	1.556	mg/L	0.0042	3.112	mg/L	0.0084	0.27%
Sn 189.927†	-6.3	0.00438	mg/L	0.000691	0.00876	mg/L	0.001382	15.78%
Sr 421.552†	145113.5	0.2137	mg/L	0.00019	0.4275	mg/L	0.00038	0.09%
Ti 334.903†	242260.7	9.252	mg/L	0.0077	18.50	mg/L	0.015	0.08%
Tl 190.801†	-11.0	-0.01880	mg/L	0.002738	-0.03761	mg/L	0.005477	14.56%
V 292.402†	120462.5	0.4043	mg/L	0.00079	0.8087	mg/L	0.00158	0.20%
Zn 206.200†	670.0	0.6292	mg/L	0.00582	1.258	mg/L	0.0116	0.93%

Sequence No.: 9
 Sample ID: JS91 V SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 52
 Date Collected: 8/24/2006 2:51:59 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS91 V SWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS91 V SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2035313.3		117.2 %	0.58				0.49%
ScR 361.383	262907.8		126.2 %	0.65				0.52%
Ag 328.068†	-2295.9	-0.00066	mg/L	0.000045	-0.00133	mg/L	0.000089	6.73%
Al 308.215†	254088.2		186.8 mg/L	0.62	373.6	mg/L	1.24	0.33%
As 188.979†	86.2	0.03856	mg/L	0.002422	0.07711	mg/L	0.004844	6.28%
B 249.677†	61.9	0.01805	mg/L	0.001231	0.03610	mg/L	0.002462	6.82%
Ba 233.527†	1555.8	0.4494	mg/L	0.00336	0.8988	mg/L	0.00672	0.75%
Be 313.042†	1928.6	0.00242	mg/L	0.000039	0.00483	mg/L	0.000079	1.63%
Ca 317.933†	888795.1		38.46 mg/L	0.094	76.91	mg/L	0.188	0.24%
Cd 228.802†	57.5	-0.00007	mg/L	0.000088	-0.00013	mg/L	0.000177	134.37%
Co 228.616†	3057.9	0.05950	mg/L	0.000563	0.1190	mg/L	0.00113	0.95%
Cr 267.716†	1519.9	0.1849	mg/L	0.00027	0.3698	mg/L	0.00054	0.15%
Cu 324.752†	34826.1	0.1416	mg/L	0.00017	0.2833	mg/L	0.00034	0.12%
Fe 273.955†	152010.8		163.6 mg/L	0.81	327.2	mg/L	1.63	0.50%
K 766.490†	6371.2	4.117	mg/L	0.0389	8.235	mg/L	0.0779	0.95%
Mg 279.077†	69763.4	43.97	mg/L	0.135	87.93	mg/L	0.269	0.31%
Mn 257.610†	57041.5	2.105	mg/L	0.0036	4.210	mg/L	0.0073	0.17%
Mo 202.031†	17.8	0.00472	mg/L	0.000542	0.00944	mg/L	0.001085	11.49%
Na 589.592†	8293.1	1.397	mg/L	0.0056	2.794	mg/L	0.0112	0.40%
Na 330.237†	12.6	2.457	mg/L	0.4142	4.913	mg/L	0.8284	16.86%
Ni 231.604†	428.7	0.2079	mg/L	0.00078	0.4157	mg/L	0.00156	0.38%
Pb 220.353†	-125.4	0.02341	mg/L	0.000668	0.04682	mg/L	0.001336	2.85%
Sb 206.836†	14.0	0.01938	mg/L	0.005237	0.03875	mg/L	0.010474	27.03%
Se 196.026†	-71.0	-0.04670	mg/L	0.005857	-0.09340	mg/L	0.011715	12.54%
Si 288.158†	1693.7	1.187	mg/L	0.0017	2.375	mg/L	0.0034	0.14%
Sn 189.927†	-23.5	-0.00102	mg/L	0.000204	-0.00203	mg/L	0.000408	20.08%
Sr 421.552†	98887.0	0.1457	mg/L	0.00045	0.2913	mg/L	0.00090	0.31%
Ti 334.903†	253532.2	9.682	mg/L	0.0213	19.36	mg/L	0.043	0.22%
Tl 190.801†	-9.2	-0.01773	mg/L	0.005205	-0.03545	mg/L	0.010411	29.37%
V 292.402†	134158.9	0.4487	mg/L	0.00051	0.8974	mg/L	0.00101	0.11%
Zn 206.200†	311.6	0.2905	mg/L	0.00207	0.5810	mg/L	0.00415	0.71%

Sequence No.: 10
 Sample ID: JS63 MBSPK TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 53
 Date Collected: 8/24/2006 2:58:14 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS63 MBSPK TWC

Analyte Back Pressure Flow
 All 171.0 kPa 0.50 L/min

Mean Data: JS63 MBSPK TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2006529.4		115.6 %	1.10				0.95%
ScR 361.383	253971.0		121.9 %	0.49				0.40%
Ag 328.068†	163145.0		0.5160 mg/L	0.00118	0.5160 mg/L	0.00118		0.23%
Al 308.215†	2853.1		2.088 mg/L	0.0184	2.088 mg/L	0.0184		0.88%
As 188.979†	2278.9		2.179 mg/L	0.0149	2.179 mg/L	0.0149		0.69%
B 249.677†	-4.3		-0.00055 mg/L	0.001734	-0.00055 mg/L	0.001734	315.35%	
Ba 233.527†	6560.4		1.945 mg/L	0.0181	1.945 mg/L	0.0181		0.93%
Be 313.042†	330560.3		0.5345 mg/L	0.00055	0.5345 mg/L	0.00055		0.10%
Ca 317.933†	250242.7		10.83 mg/L	0.008	10.83 mg/L	0.008		0.07%
Cd 228.802†	17725.7		0.5193 mg/L	0.00380	0.5193 mg/L	0.00380		0.73%
Co 228.616†	20352.6		0.5121 mg/L	0.00345	0.5121 mg/L	0.00345		0.67%
Cr 267.716†	4251.9		0.5017 mg/L	0.00372	0.5017 mg/L	0.00372		0.74%
Cu 324.752†	139616.2		0.5159 mg/L	0.00041	0.5159 mg/L	0.00041		0.08%
Fe 273.955†	1981.8		2.131 mg/L	0.0163	2.131 mg/L	0.0163		0.77%
K 766.490†	15763.2		10.19 mg/L	0.021	10.19 mg/L	0.021		0.21%
Mg 279.077†	17612.3		11.13 mg/L	0.025	11.13 mg/L	0.025		0.22%
Mn 257.610†	13479.4		0.4983 mg/L	0.00099	0.4983 mg/L	0.00099		0.20%
Mo 202.031†	20.1		0.00162 mg/L	0.000431	0.00162 mg/L	0.000431	26.55%	
Na 589.592†	61166.3		10.30 mg/L	0.007	10.30 mg/L	0.007		0.07%
Na 330.237†	314.2		10.92 mg/L	0.394	10.92 mg/L	0.394		3.61%
Ni 231.604†	1041.4		0.5050 mg/L	0.00523	0.5050 mg/L	0.00523		1.04%
Pb 220.353†	21020.2		2.149 mg/L	0.0055	2.149 mg/L	0.0055		0.25%
Sb 206.836†	7.7		0.00063 mg/L	0.001992	0.00063 mg/L	0.001992	318.10%	
Se 196.026†	3539.1		2.208 mg/L	0.0172	2.208 mg/L	0.0172		0.78%
Si 288.158†	30.5		0.02242 mg/L	0.007325	0.02242 mg/L	0.007325		32.67%
Sn 189.927†	-15.0		-0.00129 mg/L	0.001007	-0.00129 mg/L	0.001007		78.22%
Sr 421.552†	345569.8		0.5090 mg/L	0.00101	0.5090 mg/L	0.00101		0.20%
Ti 334.903†	42.5		0.00151 mg/L	0.000362	0.00151 mg/L	0.000362		23.94%
Tl 190.801†	2478.4		2.123 mg/L	0.0164	2.123 mg/L	0.0164		0.77%
V 292.402†	159618.2		0.5410 mg/L	0.00041	0.5410 mg/L	0.00041		0.08%
Zn 206.200†	551.2		0.5208 mg/L	0.00447	0.5208 mg/L	0.00447		0.86%

Sequence No.: 11
 Sample ID: CV
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 7
 Date Collected: 8/24/2006 3:04:28 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1928465.0		111.1 %	0.86				0.78%
ScR 361.383	238583.8		114.6 %	0.75				0.66%
Ag 328.068†	317608.6		1.004 mg/L	0.0024	1.004 mg/L	0.0024		0.24%
Al 308.215†	2799.2		2.020 mg/L	0.0094	2.020 mg/L	0.0094		0.46%
As 188.979†	2213.3		2.113 mg/L	0.0221	2.113 mg/L	0.0221		1.05%
B 249.677†	2916.2	0.9913	mg/L	0.00436	0.9913 mg/L	0.00436		0.44%
Ba 233.527†	3302.5	0.9789	mg/L	0.00381	0.9789 mg/L	0.00381		0.39%
Be 313.042†	622459.9	1.006	mg/L	0.0034	1.006 mg/L	0.0034		0.33%
Ca 317.933†	48946.0	2.118	mg/L	0.0075	2.118 mg/L	0.0075		0.36%
Cd 228.802†	35392.8	1.040	mg/L	0.0009	1.040 mg/L	0.0009		0.08%
Co 228.616†	40474.9	1.018	mg/L	0.0034	1.018 mg/L	0.0034		0.33%
Cr 267.716†	8204.0	0.9706	mg/L	0.00384	0.9706 mg/L	0.00384		0.40%
Cu 324.752†	282630.2	1.043	mg/L	0.0028	1.043 mg/L	0.0028		0.27%
Fe 273.955†	1942.7	2.088	mg/L	0.0081	2.088 mg/L	0.0081		0.39%
K 766.490†	30251.8	19.55	mg/L	0.094	19.55 mg/L	0.094		0.48%
Mg 279.077†	3408.4	2.158	mg/L	0.0080	2.158 mg/L	0.0080		0.37%
Mn 257.610†	25797.0	0.9535	mg/L	0.00389	0.9535 mg/L	0.00389		0.41%
Mo 202.031†	10981.0	1.005	mg/L	0.0060	1.005 mg/L	0.0060		0.59%
Na 589.592†	294221.4	49.56	mg/L	0.158	49.56 mg/L	0.158		0.32%
Na 330.237†	1439.7	51.03	mg/L	0.677	51.03 mg/L	0.677		1.33%
Ni 231.604†	2093.3	1.016	mg/L	0.0058	1.016 mg/L	0.0058		0.57%
Pb 220.353†	20373.4	2.084	mg/L	0.0103	2.084 mg/L	0.0103		0.49%
Sb 206.836†	2474.2	2.177	mg/L	0.0184	2.177 mg/L	0.0184		0.84%
Se 196.026†	3432.7	2.141	mg/L	0.0201	2.141 mg/L	0.0201		0.94%
Si 288.158†	2977.6	2.089	mg/L	0.0046	2.089 mg/L	0.0046		0.22%
Sn 189.927†	4933.8	1.004	mg/L	0.0090	1.004 mg/L	0.0090		0.90%
Sr 421.552†	667856.7	0.9837	mg/L	0.00385	0.9837 mg/L	0.00385		0.39%
Ti 334.903†	26853.3	1.024	mg/L	0.0042	1.024 mg/L	0.0042		0.41%
Tl 190.801†	2399.9	2.055	mg/L	0.0178	2.055 mg/L	0.0178		0.87%
V 292.402†	303265.2	1.028	mg/L	0.0018	1.028 mg/L	0.0018		0.18%
Zn 206.200†	1104.0	1.042	mg/L	0.0042	1.042 mg/L	0.0042		0.40%

Sequence No.: 12
 Sample ID: CB
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/24/2006 3:10:41 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1826864.5	105.2	%	0.64				0.60%
ScR 361.383	230243.9	110.5	%	0.92				0.83%
Ag 328.068†	9.5	0.0003	mg/L	0.000146	0.00003	mg/L	0.000146	485.52%
Al 308.215†	42.5	0.03126	mg/L	0.004921	0.03126	mg/L	0.004921	15.74%
As 188.979†	5.6	0.00533	mg/L	0.002559	0.00533	mg/L	0.002559	48.03%
B 249.677†	7.2	0.00245	mg/L	0.002569	0.00245	mg/L	0.002569	104.88%
Ba 233.527†	-5.3	-0.00158	mg/L	0.001620	-0.00158	mg/L	0.001620	102.77%
Be 313.042†	-55.4	-0.00009	mg/L	0.000094	-0.00009	mg/L	0.000094	105.03%
Ca 317.933†	-28.4	-0.00123	mg/L	0.000980	-0.00123	mg/L	0.000980	79.71%
Cd 228.802†	1.2	0.00003	mg/L	0.000074	0.00003	mg/L	0.000074	259.52%
Co 228.616†	13.1	0.00033	mg/L	0.000336	0.00033	mg/L	0.000336	101.98%
Cr 267.716†	4.7	0.00055	mg/L	0.000559	0.00055	mg/L	0.000559	101.06%
Cu 324.752†	71.4	0.00026	mg/L	0.000107	0.00026	mg/L	0.000107	40.71%
Fe 273.955†	2.8	0.00299	mg/L	0.001998	0.00299	mg/L	0.001998	66.78%
K 766.490†	-170.6	-0.1102	mg/L	0.02811	-0.1102	mg/L	0.02811	25.50%
Mg 279.077†	11.7	0.00737	mg/L	0.000515	0.00737	mg/L	0.000515	6.99%
Mn 257.610†	9.6	0.00036	mg/L	0.000027	0.00036	mg/L	0.000027	7.44%
Mo 202.031†	4.6	0.00042	mg/L	0.000176	0.00042	mg/L	0.000176	42.12%
Na 589.592†	-449.8	-0.07576	mg/L	0.002441	-0.07576	mg/L	0.002441	3.22%
Na 330.237†	15.1	0.5362	mg/L	0.76819	0.5362	mg/L	0.76819	143.26%
Ni 231.604†	-4.2	-0.00202	mg/L	0.001346	-0.00202	mg/L	0.001346	66.66%
Pb 220.353†	-0.3	-0.00003	mg/L	0.000426	-0.00003	mg/L	0.000426	>999.9%
Sb 206.836†	0.1	0.00007	mg/L	0.001867	0.00007	mg/L	0.001867	>999.9%
Se 196.026†	11.1	0.00694	mg/L	0.003620	0.00694	mg/L	0.003620	52.15%
Si 288.158†	8.6	0.00604	mg/L	0.002650	0.00604	mg/L	0.002650	43.84%
Sn 189.927†	10.2	0.00208	mg/L	0.001683	0.00208	mg/L	0.001683	81.03%
Sr 421.552†	11.9	0.00002	mg/L	0.000049	0.00002	mg/L	0.000049	280.02%
Ti 334.903†	12.8	0.00049	mg/L	0.001225	0.00049	mg/L	0.001225	250.52%
Tl 190.801†	8.2	0.00701	mg/L	0.004066	0.00701	mg/L	0.004066	58.01%
V 292.402†	47.6	0.00016	mg/L	0.000052	0.00016	mg/L	0.000052	31.90%
Zn 206.200†	1.1	0.00108	mg/L	0.000664	0.00108	mg/L	0.000664	61.35%

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Analysis Begun

Start Time: 8/24/2006 3:15:35 PM

Plasma On Time: 8/24/2006 7:57:55 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0824B.sif

Batch ID:

Results Data Set: PE060824

Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 54

Sample ID: JS84 MB2 TWC

Date Collected: 8/24/2006 3:15:35 PM

Analyst: BLW

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution: 1X

Sample Prep Vol:

Nebulizer Parameters: JS84 MB2 TWC

Analyte	Back Pressure	Flow
All	169.0 kPa	0.50 L/min

Mean Data: JS84 MB2 TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1802067.9	103.8 %	0.71					0.68%
ScR 361.383	222802.7	107.0 %	0.48					0.45%
Ag 328.068†	2.9	0.00001 mg/L	0.000208	0.00001 mg/L	0.000208	>999.9%		
Al 308.215†	25.8	0.01896 mg/L	0.007324	0.01896 mg/L	0.007324	38.63%		
As 188.979†	10.0	0.00958 mg/L	0.004037	0.00958 mg/L	0.004037	42.15%		
B 249.677†	3.2	0.00108 mg/L	0.001483	0.00108 mg/L	0.001483	137.06%		
Ba 233.527†	-3.1	-0.00093 mg/L	0.000362	-0.00093 mg/L	0.000362	38.89%		
Be 313.042†	-62.0	-0.00010 mg/L	0.000024	-0.00010 mg/L	0.000024	23.88%		
Ca 317.933†	244.3	0.01057 mg/L	0.000855	0.01057 mg/L	0.000855	8.09%		
Cd 228.802†	6.4	0.00017 mg/L	0.000095	0.00017 mg/L	0.000095	54.16%		
Co 228.616†	3.9	0.00010 mg/L	0.000068	0.00010 mg/L	0.000068	68.60%		
Cr 267.716†	6.8	0.00080 mg/L	0.000214	0.00080 mg/L	0.000214	26.70%		
Cu 324.752†	49.3	0.00018 mg/L	0.000217	0.00018 mg/L	0.000217	118.60%		
Fe 273.955†	6.0	0.00649 mg/L	0.002509	0.00649 mg/L	0.002509	38.67%		
K 766.490†	-122.0	-0.07887 mg/L	0.017586	-0.07887 mg/L	0.017586	22.30%		
Mg 279.077†	17.9	0.01129 mg/L	0.021257	0.01129 mg/L	0.021257	188.23%		
Mn 257.610†	4.6	0.00017 mg/L	0.000030	0.00017 mg/L	0.000030	17.85%		
Mo 202.031†	0.0	0.00000 mg/L	0.000135	0.00000 mg/L	0.000135	>999.9%		
Na 589.592†	-472.9	-0.07965 mg/L	0.005186	-0.07965 mg/L	0.005186	6.51%		
Na 330.237†	13.6	0.4821 mg/L	0.56201	0.4821 mg/L	0.56201	116.59%		
Ni 231.604†	-3.9	-0.00189 mg/L	0.003555	-0.00189 mg/L	0.003555	188.55%		
Pb 220.353†	-4.3	-0.00044 mg/L	0.000592	-0.00044 mg/L	0.000592	134.84%		
Sb 206.836†	-2.0	-0.00178 mg/L	0.001135	-0.00178 mg/L	0.001135	63.92%		
Se 196.026†	10.5	0.00655 mg/L	0.004431	0.00655 mg/L	0.004431	67.67%		
Si 288.158†	16.0	0.01123 mg/L	0.003175	0.01123 mg/L	0.003175	28.28%		
Sn 189.927†	7.7	0.00157 mg/L	0.000560	0.00157 mg/L	0.000560	35.72%		
Sr 421.552†	4.9	0.00001 mg/L	0.000025	0.00001 mg/L	0.000025	354.98%		
Ti 334.903†	-4.7	-0.00018 mg/L	0.001230	-0.00018 mg/L	0.001230	680.48%		
Tl 190.801†	4.3	0.00368 mg/L	0.000972	0.00368 mg/L	0.000972	26.45%		
V 292.402†	30.8	0.00011 mg/L	0.000157	0.00011 mg/L	0.000157	143.32%		
Zn 206.200†	1.7	0.00164 mg/L	0.000875	0.00164 mg/L	0.000875	53.52%		

Sequence No.: 2

Sample ID: JS82 MB TWC

Analyst: BLW

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 55

Date Collected: 8/24/2006 3:21:59 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: JS82 MB TWC

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: JS82 MB TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	1775772.9		102.3 %	0.28				0.27%
ScR 361.383	220327.3		105.8 %	0.85				0.81%
Ag 328.068†	16.5	0.00005	mg/L	0.000067	0.00005	mg/L	0.000067	128.29%
Al 308.215†	47.4	0.03485	mg/L	0.010145	0.03485	mg/L	0.010145	29.11%
As 188.979†	8.6	0.00824	mg/L	0.002532	0.00824	mg/L	0.002532	30.74%
B 249.677†	-3.1	-0.00103	mg/L	0.002426	-0.00103	mg/L	0.002426	235.06%
Ba 233.527†	-7.6	-0.00226	mg/L	0.001323	-0.00226	mg/L	0.001323	58.45%
Be 313.042†	-86.2	-0.00014	mg/L	0.000019	-0.00014	mg/L	0.000019	13.89%
Ca 317.933†	241.4	0.01045	mg/L	0.001795	0.01045	mg/L	0.001795	17.19%
Cd 228.802†	-1.5	-0.00006	mg/L	0.000073	-0.00006	mg/L	0.000073	131.01%
Co 228.616†	10.5	0.00027	mg/L	0.000211	0.00027	mg/L	0.000211	79.31%
Cr 267.716†	8.5	0.00101	mg/L	0.000274	0.00101	mg/L	0.000274	27.18%
Cu 324.752†	87.5	0.00032	mg/L	0.000083	0.00032	mg/L	0.000083	25.75%
Fe 273.955†	5.6	0.00598	mg/L	0.002620	0.00598	mg/L	0.002620	43.79%
K 766.490†	-121.0	-0.07821	mg/L	0.008116	-0.07821	mg/L	0.008116	10.38%
Mg 279.077†	19.6	0.01236	mg/L	0.007562	0.01236	mg/L	0.007562	61.20%
Mn 257.610†	5.6	0.00021	mg/L	0.000212	0.00021	mg/L	0.000212	102.26%
Mo 202.031†	-2.0	-0.00018	mg/L	0.000751	-0.00018	mg/L	0.000751	415.04%
Na 589.592†	-500.4	-0.08428	mg/L	0.008518	-0.08428	mg/L	0.008518	10.11%
Na 330.237†	4.0	0.1429	mg/L	0.69310	0.1429	mg/L	0.69310	484.94%
Ni 231.604†	-7.4	-0.00358	mg/L	0.002414	-0.00358	mg/L	0.002414	67.49%
Pb 220.353†	-3.7	-0.00037	mg/L	0.000425	-0.00037	mg/L	0.000425	114.98%
Sb 206.836†	-1.3	-0.00117	mg/L	0.002198	-0.00117	mg/L	0.002198	187.71%
Se 196.026†	7.1	0.00441	mg/L	0.001917	0.00441	mg/L	0.001917	43.51%
Si 288.158†	18.9	0.01322	mg/L	0.005910	0.01322	mg/L	0.005910	44.71%
Sn 189.927†	8.8	0.00178	mg/L	0.000870	0.00178	mg/L	0.000870	48.86%
Sr 421.552†	47.3	0.00007	mg/L	0.000021	0.00007	mg/L	0.000021	29.90%
Ti 334.903†	9.6	0.00037	mg/L	0.000669	0.00037	mg/L	0.000669	182.08%
Tl 190.801†	5.9	0.00509	mg/L	0.002013	0.00509	mg/L	0.002013	39.57%
V 292.402†	-21.1	-0.00006	mg/L	0.000090	-0.00006	mg/L	0.000090	139.93%
Zn 206.200†	2.8	0.00268	mg/L	0.000755	0.00268	mg/L	0.000755	28.13%

Sequence No.: 3
 Sample ID: JS82 C TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 56
 Date Collected: 8/24/2006 3:28:24 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS82 C TWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS82 C TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1584409.1		91.27 %	0.955				1.05%
ScR 361.383	203146.9		97.54 %	1.370				1.40%
Ag 328.068†	122.1	0.00040	mg/L	0.000152	0.00040	mg/L	0.000152	37.54%
Al 308.215†	520.1	0.3819	mg/L	0.00291	0.3819	mg/L	0.00291	0.76%
As 188.979†	13.1	0.01209	mg/L	0.003497	0.01209	mg/L	0.003497	28.91%
B 249.677†	187.6	0.06361	mg/L	0.000935	0.06361	mg/L	0.000935	1.47%
Ba 233.527†	26.2	0.00773	mg/L	0.001795	0.00773	mg/L	0.001795	23.21%
Be 313.042†	74.4	0.00008	mg/L	0.000030	0.00008	mg/L	0.000030	36.80%
Ca 317.933†	140644.9	6.085	mg/L	0.0144	6.085	mg/L	0.0144	0.24%
Cd 228.802†	112.8	0.00330	mg/L	0.000156	0.00330	mg/L	0.000156	4.72%
Co 228.616†	32.0	0.00080	mg/L	0.000357	0.00080	mg/L	0.000357	44.77%
Cr 267.716†	162.4	0.01898	mg/L	0.000398	0.01898	mg/L	0.000398	2.10%
Cu 324.752†	6174.8	0.02282	mg/L	0.000207	0.02282	mg/L	0.000207	0.91%
Fe 273.955†	321.9	0.3463	mg/L	0.00232	0.3463	mg/L	0.00232	0.67%
K 766.490†	49271.3	31.84	mg/L	0.238	31.84	mg/L	0.238	0.75%
Mg 279.077†	2716.2	1.716	mg/L	0.0071	1.716	mg/L	0.0071	0.41%
Mn 257.610†	573.9	0.02114	mg/L	0.000055	0.02114	mg/L	0.000055	0.26%
Mo 202.031†	5.4	0.00046	mg/L	0.000213	0.00046	mg/L	0.000213	46.56%
Na 589.592†	Saturated2							
Na 330.237†	46187.9	1638	mg/L	5.5	1638	mg/L	5.5	0.33%
Ni 231.604†	1.6	0.00076	mg/L	0.003222	0.00076	mg/L	0.003222	426.34%
Pb 220.353†	15.8	0.00171	mg/L	0.000496	0.00171	mg/L	0.000496	29.06%
Sb 206.836†	5.9	0.00490	mg/L	0.003356	0.00490	mg/L	0.003356	68.49%
Se 196.026†	0.5	0.00030	mg/L	0.008037	0.00030	mg/L	0.008037	>999.9%
Si 288.158†	1705.3	1.195	mg/L	0.0005	1.195	mg/L	0.0005	0.05%
Sr 189.927†	-15.0	-0.00200	mg/L	0.001561	-0.00200	mg/L	0.001561	78.03%
Sr 421.552†	27685.1	0.04078	mg/L	0.000084	0.04078	mg/L	0.000084	0.21%
Ti 334.903†	102.1	0.00389	mg/L	0.001091	0.00389	mg/L	0.001091	28.03%
Tl 190.801†	7.8	0.00667	mg/L	0.001180	0.00667	mg/L	0.001180	17.71%
V 292.402†	7139.4	0.02417	mg/L	0.000156	0.02417	mg/L	0.000156	0.65%
Zn 206.200†	99.5	0.09407	mg/L	0.001215	0.09407	mg/L	0.001215	1.29%

Sequence No.: 4
 Sample ID: JS84 J TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 57
 Date Collected: 8/24/2006 3:34:48 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS84 J TWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS84 J TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	1776281.5		102.3 %	0.08				0.08%
ScR 361.383	220621.4		105.9 %	0.83				0.79%
Ag 328.068†	-168.2	0.00000	mg/L	0.000279	0.00000	mg/L	0.000279	>999.9%
Al 308.215†	39.3	0.02874	mg/L	0.010903	0.02874	mg/L	0.010903	37.94%
As 188.979†	14.0	0.01219	mg/L	0.000682	0.01219	mg/L	0.000682	5.59%
B 249.677†	679.7	0.2303	mg/L	0.00188	0.2303	mg/L	0.00188	0.82%
Ba 233.527†	31.1	0.00819	mg/L	0.000811	0.00819	mg/L	0.000811	9.91%
Be 313.042†	-67.7	-0.00012	mg/L	0.000014	-0.00012	mg/L	0.000014	11.99%
Ca 317.933†	482193.0	20.86	mg/L	0.049	20.86	mg/L	0.049	0.24%
Cd 228.802†	-1.1	-0.00019	mg/L	0.000165	-0.00019	mg/L	0.000165	84.65%
Co 228.616†	23.5	0.00025	mg/L	0.000082	0.00025	mg/L	0.000082	32.45%
Cr 267.716†	16.8	0.00137	mg/L	0.001066	0.00137	mg/L	0.001066	78.11%
Cu 324.752†	-170.6	0.00062	mg/L	0.000163	0.00062	mg/L	0.000163	26.34%
Fe 273.955†	13193.9	14.20	mg/L	0.118	14.20	mg/L	0.118	0.83%
K 766.490†	2850.6	1.842	mg/L	0.0173	1.842	mg/L	0.0173	0.94%
Mg 279.077†	16888.9	10.66	mg/L	0.134	10.66	mg/L	0.134	1.26%
Mn 257.610†	9811.4	0.3622	mg/L	0.00429	0.3622	mg/L	0.00429	1.18%
Mo 202.031†	52.9	0.00459	mg/L	0.000061	0.00459	mg/L	0.000061	1.33%
Na 589.592†	170960.8	28.79	mg/L	0.109	28.79	mg/L	0.109	0.38%
Na 330.237†	817.8	28.82	mg/L	0.098	28.82	mg/L	0.098	0.34%
Ni 231.604†	-5.8	-0.00280	mg/L	0.000613	-0.00280	mg/L	0.000613	21.86%
Pb 220.353†	1.5	0.00017	mg/L	0.000137	0.00017	mg/L	0.000137	81.85%
Sb 206.836†	0.0	-0.00008	mg/L	0.001953	-0.00008	mg/L	0.001953	>999.9%
Se 196.026†	-7.9	-0.00535	mg/L	0.003062	-0.00535	mg/L	0.003062	57.25%
Si 288.158†	5805.4	4.069	mg/L	0.0548	4.069	mg/L	0.0548	1.35%
Sn 189.927†	-28.9	-0.00245	mg/L	0.001614	-0.00245	mg/L	0.001614	65.85%
Sr 421.552†	63339.7	0.09330	mg/L	0.000273	0.09330	mg/L	0.000273	0.29%
Ti 334.903†	75.8	0.00289	mg/L	0.000350	0.00289	mg/L	0.000350	12.11%
Tl 190.801†	0.8	0.00073	mg/L	0.001364	0.00073	mg/L	0.001364	186.61%
V 292.402†	1118.5	0.00384	mg/L	0.000128	0.00384	mg/L	0.000128	3.34%
Zn 206.200†	4.1	0.00380	mg/L	0.002863	0.00380	mg/L	0.002863	75.40%

Sequence No.: 5
 Sample ID: JS84 K TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 58
 Date Collected: 8/24/2006 3:41:28 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS84 K TWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS84 K TWC

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1733996.8	99.89	%	0.228				0.23%
ScR 361.383	218865.4	105.1	%	0.66				0.63%
Ag 328.068†	-108.2	-0.00034	mg/L	0.000062	-0.00034	mg/L	0.000062	18.33%
Al 308.215†	62.1	0.04545	mg/L	0.003720	0.04545	mg/L	0.003720	8.19%
As 188.979†	17.6	0.01466	mg/L	0.002797	0.01466	mg/L	0.002797	19.08%
B 249.677†	1802.6	0.6107	mg/L	0.00506	0.6107	mg/L	0.00506	0.83%
Ba 233.527†	34.2	0.01013	mg/L	0.000361	0.01013	mg/L	0.000361	3.57%
Be 313.042†	-42.4	-0.00008	mg/L	0.000043	-0.00008	mg/L	0.000043	52.52%
Ca 317.933†	910362.2	39.39	mg/L	0.085	39.39	mg/L	0.085	0.21%
Cd 228.802†	-2.9	-0.00011	mg/L	0.000148	-0.00011	mg/L	0.000148	132.45%
Co 228.616†	45.2	0.00113	mg/L	0.000162	0.00113	mg/L	0.000162	14.40%
Cr 267.716†	24.8	-0.00007	mg/L	0.001063	-0.00007	mg/L	0.001063	>999.9%
Cu 324.752†	1071.4	0.00382	mg/L	0.000095	0.00382	mg/L	0.000095	2.49%
Fe 273.955†	294.0	0.3163	mg/L	0.00336	0.3163	mg/L	0.00336	1.06%
K 766.490†	3512.0	2.270	mg/L	0.0549	2.270	mg/L	0.0549	2.42%
Mg 279.077†	30992.6	19.59	mg/L	0.263	19.59	mg/L	0.263	1.34%
Mn 257.610†	1756.9	0.06436	mg/L	0.000642	0.06436	mg/L	0.000642	1.00%
Mo 202.031†	47.1	0.00385	mg/L	0.000143	0.00385	mg/L	0.000143	3.72%
Na 589.592†	345625.7	58.21	mg/L	0.135	58.21	mg/L	0.135	0.23%
Na 330.237†	1697.0	59.83	mg/L	0.311	59.83	mg/L	0.311	0.52%
Ni 231.604†	3.9	0.00190	mg/L	0.004329	0.00190	mg/L	0.004329	228.42%
Pb 220.353†	8.8	0.00091	mg/L	0.000309	0.00091	mg/L	0.000309	33.92%
Sb 206.836†	3.5	0.00296	mg/L	0.002409	0.00296	mg/L	0.002409	81.26%
Se 196.026†	-2.7	-0.00176	mg/L	0.001619	-0.00176	mg/L	0.001619	91.74%
Si 288.158†	2337.0	1.638	mg/L	0.0148	1.638	mg/L	0.0148	0.90%
Sn 189.927†	-48.1	-0.00328	mg/L	0.001943	-0.00328	mg/L	0.001943	59.29%
Sr 421.552†	123730.3	0.1822	mg/L	0.00052	0.1822	mg/L	0.00052	0.29%
Ti 334.903†	69.4	0.00265	mg/L	0.000777	0.00265	mg/L	0.000777	29.36%
Tl 190.801†	-1.7	-0.00148	mg/L	0.001396	-0.00148	mg/L	0.001396	94.47%
V 292.402†	2618.4	0.00885	mg/L	0.000279	0.00885	mg/L	0.000279	3.16%
Zn 206.200†	6.4	0.00652	mg/L	0.001969	0.00652	mg/L	0.001969	30.18%

Sequence No.: 6
 Sample ID: JS84 L TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 59
 Date Collected: 8/24/2006 3:48:09 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS84 L TWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS84 L TWC

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1740002.9	100.2	%	0.50				0.50%
ScR 361.383	217266.9	104.3	%	1.05				1.01%
Ag 328.068†	-211.5	-0.00014	mg/L	0.000169	-0.00014	mg/L	0.000169	119.90%
Al 308.215†	32.9	0.02403	mg/L	0.009736	0.02403	mg/L	0.009736	40.52%
As 188.979†	12.0	0.01026	mg/L	0.003030	0.01026	mg/L	0.003030	29.54%
B 249.677†	698.4	0.2366	mg/L	0.00527	0.2366	mg/L	0.00527	2.23%
Ba 233.527†	31.8	0.00841	mg/L	0.001018	0.00841	mg/L	0.001018	12.11%
Be 313.042†	-22.7	-0.00004	mg/L	0.000069	-0.00004	mg/L	0.000069	162.96%
Ca 317.933†	483757.4	20.93	mg/L	0.078	20.93	mg/L	0.078	0.37%
Cd 228.802†	2.9	-0.00007	mg/L	0.000027	-0.00007	mg/L	0.000027	36.36%
Co 228.616†	25.0	0.00029	mg/L	0.000085	0.00029	mg/L	0.000085	29.00%
Cr 267.716†	16.5	0.00131	mg/L	0.000451	0.00131	mg/L	0.000451	34.40%
Cu 324.752†	-156.0	0.00067	mg/L	0.000115	0.00067	mg/L	0.000115	17.36%
Fe 273.955†	13121.6	14.12	mg/L	0.073	14.12	mg/L	0.073	0.52%
K 766.490†	2812.1	1.817	mg/L	0.0306	1.817	mg/L	0.0306	1.68%
Mg 279.077†	16942.3	10.70	mg/L	0.077	10.70	mg/L	0.077	0.72%
Mn 257.610†	9904.6	0.3656	mg/L	0.00140	0.3656	mg/L	0.00140	0.38%
Mo 202.031†	51.9	0.00449	mg/L	0.000109	0.00449	mg/L	0.000109	2.42%
Na 589.592†	170211.1	28.67	mg/L	0.160	28.67	mg/L	0.160	0.56%
Na 330.237†	840.0	29.61	mg/L	0.697	29.61	mg/L	0.697	2.35%
Ni 231.604†	-1.5	-0.00070	mg/L	0.001463	-0.00070	mg/L	0.001463	207.83%
Pb 220.353†	-0.6	-0.00005	mg/L	0.000430	-0.00005	mg/L	0.000430	814.44%
Sb 206.836†	3.4	0.00287	mg/L	0.001222	0.00287	mg/L	0.001222	42.58%
Se 196.026†	-6.6	-0.00451	mg/L	0.002464	-0.00451	mg/L	0.002464	54.69%
Si 288.158†	3421.3	2.398	mg/L	0.0085	2.398	mg/L	0.0085	0.35%
Sr 189.927†	-30.3	-0.00271	mg/L	0.000435	-0.00271	mg/L	0.000435	16.05%
Sr 421.552†	63703.7	0.09383	mg/L	0.000364	0.09383	mg/L	0.000364	0.39%
Ti 334.903†	74.1	0.00282	mg/L	0.000977	0.00282	mg/L	0.000977	34.62%
Tl 190.801†	-4.2	-0.00361	mg/L	0.003755	-0.00361	mg/L	0.003755	104.04%
V 292.402†	1104.4	0.00379	mg/L	0.000135	0.00379	mg/L	0.000135	3.57%
Zn 206.200†	5.2	0.00485	mg/L	0.003989	0.00485	mg/L	0.003989	82.30%

Sequence No.: 7
 Sample ID: JS84 IDUP TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 60
 Date Collected: 8/24/2006 3:54:49 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS84 IDUP TWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS84 IDUP TWC

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1721238.3	99.15	%	0.310				0.31%
ScR 361.383	220387.4	105.8	%	0.70				0.67%
Ag 328.068†	-61.0	-0.00018	mg/L	0.000069	-0.00018	mg/L	0.000069	38.27%
Al 308.215†	116.4	0.08513	mg/L	0.007309	0.08513	mg/L	0.007309	8.59%
As 188.979†	16.3	0.01440	mg/L	0.003506	0.01440	mg/L	0.003506	24.35%
B 249.677†	881.1	0.2985	mg/L	0.00325	0.2985	mg/L	0.00325	1.09%
Ba 233.527†	20.0	0.00592	mg/L	0.001146	0.00592	mg/L	0.001146	19.36%
Be 313.042†	-21.9	-0.00007	mg/L	0.000009	-0.00007	mg/L	0.000009	13.66%
Ca 317.933†	464327.5	20.09	mg/L	0.041	20.09	mg/L	0.041	0.21%
Cd 228.802†	-0.5	-0.00004	mg/L	0.000022	-0.00004	mg/L	0.000022	58.42%
Co 228.616†	16.6	0.00041	mg/L	0.000063	0.00041	mg/L	0.000063	15.47%
Cr 267.716†	29.9	0.00141	mg/L	0.000925	0.00141	mg/L	0.000925	65.43%
Cu 324.752†	7320.9	0.02693	mg/L	0.000205	0.02693	mg/L	0.000205	0.76%
Fe 273.955†	154.1	0.1658	mg/L	0.00192	0.1658	mg/L	0.00192	1.16%
K 766.490†	6341.1	4.098	mg/L	0.0098	4.098	mg/L	0.0098	0.24%
Mg 279.077†	22143.5	13.99	mg/L	0.036	13.99	mg/L	0.036	0.26%
Mn 257.610†	50.9	0.00153	mg/L	0.000246	0.00153	mg/L	0.000246	16.09%
Mo 202.031†	37.9	0.00314	mg/L	0.000486	0.00314	mg/L	0.000486	15.47%
Na 589.592†	477769.6	80.47	mg/L	0.082	80.47	mg/L	0.082	0.10%
Na 330.237†	2340.3	82.82	mg/L	0.471	82.82	mg/L	0.471	0.57%
Ni 231.604†	4.0	0.00194	mg/L	0.001439	0.00194	mg/L	0.001439	74.12%
Pb 220.353†	-3.1	-0.00031	mg/L	0.000586	-0.00031	mg/L	0.000586	188.44%
Sb 206.836†	6.1	0.00530	mg/L	0.002070	0.00530	mg/L	0.002070	39.03%
Se 196.026†	-6.7	-0.00421	mg/L	0.003106	-0.00421	mg/L	0.003106	73.84%
Si 288.158†	20882.6	14.64	mg/L	0.020	14.64	mg/L	0.020	0.14%
Sn 189.927†	-23.9	-0.00165	mg/L	0.000793	-0.00165	mg/L	0.000793	48.14%
Sr 421.552†	58069.7	0.08553	mg/L	0.000227	0.08553	mg/L	0.000227	0.26%
Ti 334.903†	163.8	0.00625	mg/L	0.000240	0.00625	mg/L	0.000240	3.84%
Tl 190.801†	2.8	0.00239	mg/L	0.000282	0.00239	mg/L	0.000282	11.78%
V 292.402†	6412.3	0.02161	mg/L	0.000080	0.02161	mg/L	0.000080	0.37%
Zn 206.200†	5.7	0.00561	mg/L	0.001026	0.00561	mg/L	0.001026	18.29%

Sequence No.: 8
 Sample ID: JS84 I TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 61
 Date Collected: 8/24/2006 4:01:33 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS84 I TWC
 Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS84 I TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1742713.1		100.4 %	1.06				1.05%
ScR 361.383	216966.0		104.2 %	0.78				0.75%
Ag 328.068†	5.0	0.00003	mg/L	0.000276	0.00003	mg/L	0.000276	953.72%
Al 308.215†	111.7	0.08167	mg/L	0.011917	0.08167	mg/L	0.011917	14.59%
As 188.979†	10.7	0.00904	mg/L	0.003914	0.00904	mg/L	0.003914	43.30%
B 249.677†	872.6	0.2956	mg/L	0.00226	0.2956	mg/L	0.00226	0.76%
Ba 233.527†	16.4	0.00485	mg/L	0.000634	0.00485	mg/L	0.000634	13.07%
Be 313.042†	-48.2	-0.00011	mg/L	0.000029	-0.00011	mg/L	0.000029	25.46%
Ca 317.933†	471263.0	20.39	mg/L	0.038	20.39	mg/L	0.038	0.19%
Cd 228.802†	-7.9	-0.00025	mg/L	0.000401	-0.00025	mg/L	0.000401	161.13%
Co 228.616†	18.4	0.00045	mg/L	0.000382	0.00045	mg/L	0.000382	85.16%
Cr 267.716†	31.1	0.00151	mg/L	0.000702	0.00151	mg/L	0.000702	46.52%
Cu 324.752†	7486.6	0.02754	mg/L	0.000494	0.02754	mg/L	0.000494	1.79%
Fe 273.955†	157.6	0.1696	mg/L	0.00208	0.1696	mg/L	0.00208	1.23%
K 766.490†	6610.7	4.272	mg/L	0.0264	4.272	mg/L	0.0264	0.62%
Mg 279.077†	22519.8	14.23	mg/L	0.134	14.23	mg/L	0.134	0.95%
Mn 257.610†	53.3	0.00161	mg/L	0.000293	0.00161	mg/L	0.000293	18.16%
Mo 202.031†	34.6	0.00283	mg/L	0.000299	0.00283	mg/L	0.000299	10.57%
Na 589.592†	492747.7	82.99	mg/L	0.466	82.99	mg/L	0.466	0.56%
Na 330.237†	2422.3	85.73	mg/L	0.282	85.73	mg/L	0.282	0.33%
Ni 231.604†	7.4	0.00358	mg/L	0.002615	0.00358	mg/L	0.002615	73.14%
Pb 220.353†	-2.3	-0.00023	mg/L	0.000151	-0.00023	mg/L	0.000151	65.97%
Sb 206.836†	0.7	0.00056	mg/L	0.003193	0.00056	mg/L	0.003193	565.40%
Se 196.026†	-3.0	-0.00190	mg/L	0.001819	-0.00190	mg/L	0.001819	95.71%
Si 288.158†	20521.6	14.38	mg/L	0.058	14.38	mg/L	0.058	0.41%
Sn 189.927†	-24.0	-0.00164	mg/L	0.000787	-0.00164	mg/L	0.000787	47.98%
Sr 421.552†	59469.7	0.08760	mg/L	0.000302	0.08760	mg/L	0.000302	0.35%
Ti 334.903†	175.4	0.00670	mg/L	0.001005	0.00670	mg/L	0.001005	15.01%
Tl 190.801†	1.7	0.00141	mg/L	0.007834	0.00141	mg/L	0.007834	556.51%
V 292.402†	6548.5	0.02207	mg/L	0.000270	0.02207	mg/L	0.000270	1.23%
Zn 206.200†	8.1	0.00788	mg/L	0.003187	0.00788	mg/L	0.003187	40.43%

Sequence No.: 9
 Sample ID: JS84 ISPK TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 62
 Date Collected: 8/24/2006 4:08:16 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS84 ISPK TWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS84 ISPK TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	1746748.3		100.6 %	0.37				0.37%
ScR 361.383	220510.5		105.9 %	0.44				0.42%
Ag 328.068†	164071.4		0.5190 mg/L	0.00061	0.5190 mg/L	0.00061		0.12%
Al 308.215†	2902.0		2.124 mg/L	0.0107	2.124 mg/L	0.0107		0.50%
As 188.979†	2288.1		2.186 mg/L	0.0175	2.186 mg/L	0.0175		0.80%
B 249.677†	937.9		0.3187 mg/L	0.00306	0.3187 mg/L	0.00306		0.96%
Ba 233.527†	6619.9		1.963 mg/L	0.0048	1.963 mg/L	0.0048		0.25%
Be 313.042†	329586.7		0.5328 mg/L	0.00062	0.5328 mg/L	0.00062		0.12%
Ca 317.933†	737400.1		31.91 mg/L	0.260	31.91 mg/L	0.260		0.81%
Cd 228.802†	17611.8		0.5159 mg/L	0.00184	0.5159 mg/L	0.00184		0.36%
Co 228.616†	19827.1		0.4988 mg/L	0.00182	0.4988 mg/L	0.00182		0.37%
Cr 267.716†	4248.5		0.4991 mg/L	0.00174	0.4991 mg/L	0.00174		0.35%
Cu 324.752†	151769.9		0.5607 mg/L	0.00081	0.5607 mg/L	0.00081		0.14%
Fe 273.955†	2157.5		2.320 mg/L	0.0170	2.320 mg/L	0.0170		0.73%
K 766.490†	22743.1		14.70 mg/L	0.037	14.70 mg/L	0.037		0.25%
Mg 279.077†	40862.9		25.82 mg/L	0.060	25.82 mg/L	0.060		0.23%
Mn 257.610†	13533.7		0.4999 mg/L	0.00125	0.4999 mg/L	0.00125		0.25%
Mo 202.031†	55.7		0.00454 mg/L	0.000322	0.00454 mg/L	0.000322		7.09%
Na 589.592†	572515.1		96.43 mg/L	0.942	96.43 mg/L	0.942		0.98%
Na 330.237†	2827.7		99.88 mg/L	0.664	99.88 mg/L	0.664		0.67%
Ni 231.604†	1045.3		0.5068 mg/L	0.00200	0.5068 mg/L	0.00200		0.39%
Pb 220.353†	19835.9		2.028 mg/L	0.0042	2.028 mg/L	0.0042		0.21%
Sb 206.836†	10.7		0.00330 mg/L	0.001596	0.00330 mg/L	0.001596		48.39%
Se 196.026†	3494.3		2.180 mg/L	0.0055	2.180 mg/L	0.0055		0.25%
Si 288.158†	19184.4		13.45 mg/L	0.026	13.45 mg/L	0.026		0.19%
Sn 189.927†	-46.1		-0.00426 mg/L	0.000459	-0.00426 mg/L	0.000459		10.79%
Sr 421.552†	406667.2		0.5990 mg/L	0.00430	0.5990 mg/L	0.00430		0.72%
Ti 334.903†	226.9		0.00855 mg/L	0.000652	0.00855 mg/L	0.000652		7.62%
Tl 190.801†	2343.0		2.007 mg/L	0.0040	2.007 mg/L	0.0040		0.20%
V 292.402†	166554.4		0.5644 mg/L	0.00082	0.5644 mg/L	0.00082		0.15%
Zn 206.200†	547.8		0.5178 mg/L	0.00216	0.5178 mg/L	0.00216		0.42%

Sequence No.: 10
 Sample ID: JS84 MB2SPK TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 63
 Date Collected: 8/24/2006 4:14:46 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS84 MB2SPK TWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS84 MB2SPK TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1802541.9		103.8 %	0.23				0.22%
ScR 361.383	223508.5		107.3 %	0.22				0.21%
Ag 328.068†	153125.3		0.4844 mg/L	0.00423	0.4844 mg/L	0.00423		0.87%
Al 308.215†	2857.4		2.092 mg/L	0.0121	2.092 mg/L	0.0121		0.58%
As 188.979†	2175.4		2.080 mg/L	0.0112	2.080 mg/L	0.0112		0.54%
B 249.677†	1.4		0.00141 mg/L	0.000016	0.00141 mg/L	0.000016		1.13%
Ba 233.527†	6661.2		1.975 mg/L	0.0087	1.975 mg/L	0.0087		0.44%
Be 313.042†	329790.7		0.5332 mg/L	0.00118	0.5332 mg/L	0.00118		0.22%
Ca 317.933†	245749.3		10.63 mg/L	0.023	10.63 mg/L	0.023		0.22%
Cd 228.802†	17586.2		0.5153 mg/L	0.00409	0.5153 mg/L	0.00409		0.79%
Co 228.616†	19857.5		0.4996 mg/L	0.00471	0.4996 mg/L	0.00471		0.94%
Cr 267.716†	4297.2		0.5071 mg/L	0.00215	0.5071 mg/L	0.00215		0.42%
Cu 324.752†	136083.1		0.5028 mg/L	0.00446	0.5028 mg/L	0.00446		0.89%
Fe 273.955†	2023.0		2.176 mg/L	0.0068	2.176 mg/L	0.0068		0.31%
K 766.490†	16042.8		10.37 mg/L	0.030	10.37 mg/L	0.030		0.29%
Mg 279.077†	17253.1		10.90 mg/L	0.016	10.90 mg/L	0.016		0.15%
Mn 257.610†	13626.8		0.5037 mg/L	0.00137	0.5037 mg/L	0.00137		0.27%
Mo 202.031†	19.4		0.00156 mg/L	0.000150	0.00156 mg/L	0.000150		9.61%
Na 589.592†	62401.4		10.51 mg/L	0.033	10.51 mg/L	0.033		0.31%
Na 330.237†	315.8		10.97 mg/L	0.289	10.97 mg/L	0.289		2.64%
Ni 231.604†	1054.1		0.5111 mg/L	0.00131	0.5111 mg/L	0.00131		0.26%
Pb 220.353†	20145.5		2.060 mg/L	0.0252	2.060 mg/L	0.0252		1.22%
Sb 206.836†	6.6		-0.00050 mg/L	0.000860	-0.00050 mg/L	0.000860		172.33%
Se 196.026†	3387.0		2.113 mg/L	0.0096	2.113 mg/L	0.0096		0.46%
Si 288.158†	40.2		0.02922 mg/L	0.000643	0.02922 mg/L	0.000643		2.20%
Sn 189.927†	-17.8		-0.00190 mg/L	0.000355	-0.00190 mg/L	0.000355		18.72%
Sr 421.552†	344515.6		0.5075 mg/L	0.00103	0.5075 mg/L	0.00103		0.20%
Ti 334.903†	2.0		-0.00003 mg/L	0.001141	-0.00003 mg/L	0.001141		>999.9%
Tl 190.801†	2373.6		2.033 mg/L	0.0075	2.033 mg/L	0.0075		0.37%
V 292.402†	153985.6		0.5221 mg/L	0.00524	0.5221 mg/L	0.00524		1.00%
Zn 206.200†	556.5		0.5258 mg/L	0.00290	0.5258 mg/L	0.00290		0.55%

Sequence No.: 11

Sample ID: CV

Analyst: BLW 6

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 7

Date Collected: 8/24/2006 4:21:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1802959.1	103.9 %	0.67			0.65%
ScR 361.383	223761.9	107.4 %	1.42			1.32%
Ag 328.068†	317449.9	1.004 mg/L	0.0034	1.004 mg/L	0.0034	0.34%
Al 308.215†	2790.9	2.014 mg/L	0.0119	2.014 mg/L	0.0119	0.59%
As 188.979†	2161.7	2.063 mg/L	0.0182	2.063 mg/L	0.0182	0.88%
B 249.677†	2953.7	1.004 mg/L	0.0091	1.004 mg/L	0.0091	0.91%
Ba 233.527†	3326.3	0.9860 mg/L	0.01234	0.9860 mg/L	0.01234	1.25%
Be 313.042†	629553.9	1.018 mg/L	0.0007	1.018 mg/L	0.0007	0.07%
Ca 317.933†	48972.6	2.119 mg/L	0.0013	2.119 mg/L	0.0013	0.06%
Cd 228.802†	35111.3	1.032 mg/L	0.0015	1.032 mg/L	0.0015	0.14%
Co 228.616†	39790.5	1.000 mg/L	0.0021	1.000 mg/L	0.0021	0.21%
Cr 267.716†	8258.1	0.9770 mg/L	0.00998	0.9770 mg/L	0.00998	1.02%
Cu 324.752†	283532.2	1.047 mg/L	0.0022	1.047 mg/L	0.0022	0.21%
Fe 273.955†	1968.4	2.116 mg/L	0.0219	2.116 mg/L	0.0219	1.04%
K 766.490†	30535.6	19.73 mg/L	0.096	19.73 mg/L	0.096	0.48%
Mg 279.077†	3371.6	2.135 mg/L	0.0191	2.135 mg/L	0.0191	0.90%
Mn 257.610†	26043.5	0.9626 mg/L	0.01127	0.9626 mg/L	0.01127	1.17%
Mo 202.031†	10890.0	0.9968 mg/L	0.00897	0.9968 mg/L	0.00897	0.90%
Na 589.592†	294807.9	49.65 mg/L	0.203	49.65 mg/L	0.203	0.41%
Na 330.237†	1428.3	50.63 mg/L	0.497	50.63 mg/L	0.497	0.98%
Ni 231.604†	2107.2	1.023 mg/L	0.0102	1.023 mg/L	0.0102	1.00%
Pb 220.353†	19918.3	2.037 mg/L	0.0189	2.037 mg/L	0.0189	0.93%
Sb 206.836†	2463.5	2.167 mg/L	0.0193	2.167 mg/L	0.0193	0.89%
Se 196.026†	3338.8	2.083 mg/L	0.0140	2.083 mg/L	0.0140	0.67%
Si 288.158†	2985.1	2.094 mg/L	0.0210	2.094 mg/L	0.0210	1.00%
Sn 189.927†	4824.2	0.9822 mg/L	0.00741	0.9822 mg/L	0.00741	0.75%
Sr 421.552†	668500.3	0.9847 mg/L	0.00258	0.9847 mg/L	0.00258	0.26%
Ti 334.903†	26818.3	1.023 mg/L	0.0020	1.023 mg/L	0.0020	0.19%
Tl 190.801†	2355.1	2.017 mg/L	0.0239	2.017 mg/L	0.0239	1.19%
V 292.402†	301491.5	1.022 mg/L	0.0032	1.022 mg/L	0.0032	0.31%
Zn 206.200†	1117.8	1.055 mg/L	0.0161	1.055 mg/L	0.0161	1.52%

Sequence No.: 12

Sample ID: CB

Analyst: BLW

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 1

Date Collected: 8/24/2006 4:27:25 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1827869.2	105.3	%	0.25				0.24%
ScR 361.383	224758.1	107.9	%	1.02				0.94%
Ag 328.068†	-16.8	-0.00005	mg/L	0.000172	-0.00005	mg/L	0.000172	325.10%
Al 308.215†	34.9	0.02566	mg/L	0.010640	0.02566	mg/L	0.010640	41.47%
As 188.979†	6.5	0.00626	mg/L	0.004256	0.00626	mg/L	0.004256	67.96%
B 249.677†	14.0	0.00475	mg/L	0.002277	0.00475	mg/L	0.002277	47.96%
Ba 233.527†	-4.9	-0.00146	mg/L	0.001439	-0.00146	mg/L	0.001439	98.61%
Be 313.042†	-63.9	-0.00010	mg/L	0.000020	-0.00010	mg/L	0.000020	19.05%
Ca 317.933†	-30.3	-0.00131	mg/L	0.000919	-0.00131	mg/L	0.000919	69.98%
Cd 228.802†	7.1	0.00020	mg/L	0.000070	0.00020	mg/L	0.000070	35.22%
Co 228.616†	9.1	0.00023	mg/L	0.000177	0.00023	mg/L	0.000177	76.35%
Cr 267.716†	10.3	0.00122	mg/L	0.000603	0.00122	mg/L	0.000603	49.40%
Cu 324.752†	16.7	0.00006	mg/L	0.000279	0.00006	mg/L	0.000279	451.95%
Fe 273.955†	4.3	0.00459	mg/L	0.003018	0.00459	mg/L	0.003018	65.73%
K 766.490†	-73.7	-0.04761	mg/L	0.040209	-0.04761	mg/L	0.040209	84.45%
Mg 279.077†	28.5	0.01799	mg/L	0.010526	0.01799	mg/L	0.010526	58.50%
Mn 257.610†	4.8	0.00018	mg/L	0.000126	0.00018	mg/L	0.000126	70.65%
Mo 202.031†	6.8	0.00062	mg/L	0.000268	0.00062	mg/L	0.000268	42.91%
Na 589.592†	104.7	0.01763	mg/L	0.004378	0.01763	mg/L	0.004378	24.83%
Na 330.237†	4.0	0.1403	mg/L	0.25810	0.1403	mg/L	0.25810	183.98%
Ni 231.604†	-5.8	-0.00283	mg/L	0.000622	-0.00283	mg/L	0.000622	22.01%
Pb 220.353†	-5.5	-0.00055	mg/L	0.000476	-0.00055	mg/L	0.000476	86.25%
Sb 206.836†	-1.1	-0.00100	mg/L	0.001071	-0.00100	mg/L	0.001071	107.56%
Se 196.026†	9.2	0.00571	mg/L	0.001926	0.00571	mg/L	0.001926	33.70%
Si 288.158†	18.5	0.01298	mg/L	0.008327	0.01298	mg/L	0.008327	64.13%
Sn 189.927†	11.1	0.00224	mg/L	0.000366	0.00224	mg/L	0.000366	16.33%
Sr 421.552†	-18.4	-0.00003	mg/L	0.000050	-0.00003	mg/L	0.000050	183.21%
Ti 334.903†	-13.2	-0.00051	mg/L	0.000928	-0.00051	mg/L	0.000928	183.84%
Tl 190.801†	13.9	0.01191	mg/L	0.003170	0.01191	mg/L	0.003170	26.62%
V 292.402†	80.3	0.00028	mg/L	0.000163	0.00028	mg/L	0.000163	58.28%
Zn 206.200†	1.2	0.00116	mg/L	0.001602	0.00116	mg/L	0.001602	138.07%

Sequence No.: 13
Sample ID: JT82 MB1 SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 64
Date Collected: 8/24/2006 4:33:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT82 MB1 SWC

Analyte Back Pressure Flow
All 170.0 kPa 0.50 L/min

Mean Data: JT82 MB1 SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1859073.1	107.1 %		0.22			0.21%
ScR 361.383	226738.4	108.9 %		0.48			0.44%
Ag 328.068†	-67.2	-0.00021 mg/L		0.000105	-0.00042 mg/L	0.000209	49.35%
Al 308.215†	118.4	0.08706 mg/L		0.005444	0.1741 mg/L	0.01089	6.25%
As 188.979†	5.1	0.00485 mg/L		0.001061	0.00971 mg/L	0.002123	21.86%
B 249.677†	13.8	0.00468 mg/L		0.001660	0.00936 mg/L	0.003321	35.47%
Ba 233.527†	-4.3	-0.00129 mg/L		0.001576	-0.00258 mg/L	0.003151	122.34%
Be 313.042†	-114.0	-0.00018 mg/L		0.000043	-0.00037 mg/L	0.000086	23.19%
Ca 317.933†	2526.3	0.1093 mg/L		0.00174	0.2186 mg/L	0.00349	1.59%
Cd 228.802†	-0.7	-0.00003 mg/L		0.000086	-0.00006 mg/L	0.000171	309.08%
Co 228.616†	4.8	0.00012 mg/L		0.000194	0.00024 mg/L	0.000388	165.16%
Cr 267.716†	7.5	0.00088 mg/L		0.000237	0.00176 mg/L	0.000475	26.91%
Cu 324.752†	-20.9	-0.00008 mg/L		0.000064	-0.00016 mg/L	0.000129	83.12%
Fe 273.955†	6.1	0.00656 mg/L		0.003089	0.01312 mg/L	0.006178	47.10%
K 766.490†	-88.8	-0.05742 mg/L		0.013042	-0.1148 mg/L	0.02608	22.71%
Mg 279.077†	46.2	0.02919 mg/L		0.006557	0.05839 mg/L	0.013114	22.46%
Mn 257.610†	9.5	0.00035 mg/L		0.000113	0.00070 mg/L	0.000227	32.42%
Mo 202.031†	1.1	0.00011 mg/L		0.000259	0.00021 mg/L	0.000518	245.19%
Na 589.592†	23.7	0.00399 mg/L		0.009069	0.00798 mg/L	0.018138	227.27%
Na 330.237†	-7.9	-0.2839 mg/L		0.06194	-0.5678 mg/L	0.12387	21.82%
Ni 231.604†	-4.1	-0.00201 mg/L		0.001854	-0.00402 mg/L	0.003708	92.28%
Pb 220.353†	-7.0	-0.00069 mg/L		0.000470	-0.00139 mg/L	0.000941	67.87%
Sb 206.836†	-3.1	-0.00274 mg/L		0.002320	-0.00548 mg/L	0.004639	84.72%
Se 196.026†	10.0	0.00623 mg/L		0.005378	0.01247 mg/L	0.010757	86.29%
Si 288.158†	16.7	0.01172 mg/L		0.010243	0.02345 mg/L	0.020485	87.37%
Sn 189.927†	12.4	0.00253 mg/L		0.000766	0.00507 mg/L	0.001531	30.22%
Sr 421.552†	95.7	0.00014 mg/L		0.000093	0.00028 mg/L	0.000186	65.86%
Ti 334.903†	91.8	0.00351 mg/L		0.001339	0.00701 mg/L	0.002677	38.19%
Tl 190.801†	11.1	0.00954 mg/L		0.003599	0.01907 mg/L	0.007198	37.75%
V 292.402†	35.0	0.00012 mg/L		0.000104	0.00024 mg/L	0.000207	84.59%
Zn 206.200†	18.0	0.01700 mg/L		0.000397	0.03400 mg/L	0.000793	2.33%

Sequence No.: 14
 Sample ID: JS66 A TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 65
 Date Collected: 8/24/2006 4:40:15 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS66 A TWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS66 A TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1472603.9		84.83 %	0.392				0.46%
ScR 361.383	202219.8		97.09 %	0.686				0.71%
Ag 328.068†	-999.3	-0.00323	mg/L	0.000334	-0.00323	mg/L	0.000334	10.35%
Al 308.215†	111.7	0.08111	mg/L	0.009538	0.08111	mg/L	0.009538	11.76%
As 188.979†	64.7	0.03356	mg/L	0.007854	0.03356	mg/L	0.007854	23.40%
B 249.677†	30492.8	10.33	mg/L	0.067	10.33	mg/L	0.067	0.65%
Ba 233.527†	9402.1	2.788	mg/L	0.0135	2.788	mg/L	0.0135	0.48%
Be 313.042†	-9.8	-0.00007	mg/L	0.000094	-0.00007	mg/L	0.000094	138.58%
Ca 317.933†	11316808.7	489.6	mg/L	2.52	489.6	mg/L	2.52	0.52%
Cd 228.802†	-0.7	-0.00032	mg/L	0.000112	-0.00032	mg/L	0.000112	34.93%
Co 228.616†	761.0	0.01788	mg/L	0.001905	0.01788	mg/L	0.001905	10.66%
Cr 267.716†	720.8	0.01873	mg/L	0.001113	0.01873	mg/L	0.001113	5.94%
Cu 324.752†	1421.2	0.00247	mg/L	0.000359	0.00247	mg/L	0.000359	14.54%
Fe 273.955†	9489.6	10.21	mg/L	0.055	10.21	mg/L	0.055	0.54%
K 766.490†	486807.3	314.6	mg/L	2.04	314.6	mg/L	2.04	0.65%
Mg 279.077†	681625.9	430.8	mg/L	1.23	430.8	mg/L	1.23	0.29%
Mn 257.610†	84237.0	3.102	mg/L	0.0211	3.102	mg/L	0.0211	0.68%
Mo 202.031†	163.5	0.00477	mg/L	0.000426	0.00477	mg/L	0.000426	8.95%
Na 589.592†	Saturated2							
Na 330.237†	71061.8	2516	mg/L	18.9	2516	mg/L	18.9	0.75%
Ni 231.604†	214.0	0.1038	mg/L	0.00334	0.1038	mg/L	0.00334	3.22%
Pb 220.353†	40.1	0.00428	mg/L	0.001002	0.00428	mg/L	0.001002	23.42%
Sb 206.836†	15.7	0.01264	mg/L	0.002110	0.01264	mg/L	0.002110	16.70%
Se 196.026†	-67.7	-0.04576	mg/L	0.006550	-0.04576	mg/L	0.006550	14.31%
Si 288.158†	21598.6	15.14	mg/L	0.084	15.14	mg/L	0.084	0.55%
Sn 189.927†	-65.8	0.06189	mg/L	0.001315	0.06189	mg/L	0.001315	2.13%
Sr 421.552†	3297856.7	4.858	mg/L	0.0205	4.858	mg/L	0.0205	0.42%
Ti 334.903†	5708.2	0.2180	mg/L	0.00150	0.2180	mg/L	0.00150	0.69%
Tl 190.801†	-4.7	-0.00436	mg/L	0.006097	-0.00436	mg/L	0.006097	139.85%
V 292.402†	9842.7	0.03411	mg/L	0.000261	0.03411	mg/L	0.000261	0.76%
Zn 206.200†	-10.8	-0.00417	mg/L	0.002005	-0.00417	mg/L	0.002005	48.07%

Sequence No.: 15
 Sample ID: JS66 B TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 66
 Date Collected: 8/24/2006 4:47:07 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS66 B TWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

rew
115

Mean Data: JS66 B TWC

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1446169.2	83.31	%	1.744				2.09%
ScR 361.383	204864.3	98.36	%	0.692				0.70%
Ag 328.068†	-3144.7	-0.00891	mg/L	0.000212	-0.00891	mg/L	0.000212	2.38%
Al 308.215†	2305.3	1.694	mg/L	0.0076	1.694	mg/L	0.0076	0.45%
As 188.979†	506.6	0.4091	mg/L	0.36062	0.4091	mg/L	0.36062	88.16%
B 249.677†	16951.7	5.743	mg/L	0.0508	5.743	mg/L	0.0508	0.89%
Ba 233.527†	5043.3	1.492	mg/L	0.0089	1.492	mg/L	0.0089	0.60%
Be 313.042†	355.8	0.00053	mg/L	0.000065	0.00053	mg/L	0.000065	12.19%
Ca 317.933†	30924330.2	1338	mg/L	14.8	1338	mg/L	14.8	1.11%
Cd 228.802†	52.7	0.00034	mg/L	0.000987	0.00034	mg/L	0.000987	293.68%
Co 228.616†	368.2	0.00742	mg/L	0.007780	0.00742	mg/L	0.007780	104.85%
Cr 267.716†	840.4	0.06264	mg/L	0.001053	0.06264	mg/L	0.001053	1.68%
Cu 324.752†	2733.4	0.01261	mg/L	0.000513	0.01261	mg/L	0.000513	4.06%
Fe 273.955†	45981.8	49.48	mg/L	0.200	49.48	mg/L	0.200	0.40%
K 766.490†	851904.7	550.6	mg/L	2.19	550.6	mg/L	2.19	0.40%
Mg 279.077†	390930.8	247.0	mg/L	0.35	247.0	mg/L	0.35	0.14%
Mn 257.610†	172171.2	6.350	mg/L	0.0203	6.350	mg/L	0.0203	0.32%
Mo 202.031†	153.7	0.00825	mg/L	0.006172	0.00825	mg/L	0.006172	74.77%
Na 589.592†	Saturated2							
Na 330.237†	73531.7	2596	mg/L	18.9	2596	mg/L	18.9	0.73%
Ni 231.604†	235.5	0.1142	mg/L	0.00258	0.1142	mg/L	0.00258	2.26%
Pb 220.353†	31.5	0.00373	mg/L	0.005782	0.00373	mg/L	0.005782	154.99%
Sb 206.836†	69.7	0.05973	mg/L	0.042658	0.05973	mg/L	0.042658	71.41%
Se 196.026†	-71.1	-0.05158	mg/L	0.037791	-0.05158	mg/L	0.037791	73.26%
Si 288.158†	4285.9	3.004	mg/L	0.0264	3.004	mg/L	0.0264	0.88%
Sn 189.927†	-125.4	0.2054	mg/L	0.01079	0.2054	mg/L	0.01079	5.25%
Sr 421.552†	5742696.9	8.459	mg/L	0.0792	8.459	mg/L	0.0792	0.94%
Ti 334.903†	5485.4	0.2094	mg/L	0.00278	0.2094	mg/L	0.00278	1.33%
Tl 190.801†	13.4	0.01121	mg/L	0.010978	0.01121	mg/L	0.010978	97.93%
V 292.402†	8631.7	0.03063	mg/L	0.001483	0.03063	mg/L	0.001483	4.84%
Zn 206.200†	22.0	0.03682	mg/L	0.002000	0.03682	mg/L	0.002000	5.43%

Sequence No.: 16
 Sample ID: JS66 C TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 67
 Date Collected: 8/24/2006 4:54:13 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS66 C TWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS66 C TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1737219.5		100.1 %	0.31				0.31%
ScR 361.383	218650.1		105.0 %	1.12				1.07%
Ag 328.068†	-56.0	0.00031	mg/L	0.000079	0.00031	mg/L	0.000079	25.86%
Al 308.215†	9617.3	7.069	mg/L	0.0367	7.069	mg/L	0.0367	0.52%
As 188.979†	182.9	0.1714	mg/L	0.00891	0.1714	mg/L	0.00891	5.20%
B 249.677†	1866.7	0.6323	mg/L	0.00384	0.6323	mg/L	0.00384	0.61%
Ba 233.527†	367.3	0.1080	mg/L	0.00021	0.1080	mg/L	0.00021	0.20%
Be 313.042†	-24.2	-0.00008	mg/L	0.000036	-0.00008	mg/L	0.000036	46.31%
Ca 317.933†	395511.6	17.11	mg/L	0.046	17.11	mg/L	0.046	0.27%
Cd 228.802†	13.0	0.00001	mg/L	0.000047	0.00001	mg/L	0.000047	401.55%
Co 228.616†	216.0	0.00426	mg/L	0.000040	0.00426	mg/L	0.000040	0.93%
Cr 267.716†	146.6	0.01667	mg/L	0.000573	0.01667	mg/L	0.000573	3.43%
Cu 324.752†	439397.7	1.624	mg/L	0.0007	1.624	mg/L	0.0007	0.04%
Fe 273.955†	11621.4	12.51	mg/L	0.062	12.51	mg/L	0.062	0.50%
K 766.490†	38476.3	24.87	mg/L	0.193	24.87	mg/L	0.193	0.78%
Mg 279.077†	15990.5	10.10	mg/L	0.035	10.10	mg/L	0.035	0.34%
Mn 257.610†	7143.5	0.2636	mg/L	0.00089	0.2636	mg/L	0.00089	0.34%
Mo 202.031†	35.2	0.00314	mg/L	0.000063	0.00314	mg/L	0.000063	2.01%
Na 589.592†	2681141.9	451.6	mg/L	4.38	451.6	mg/L	4.38	0.97%
Na 330.237†	13295.8	471.4	mg/L	1.99	471.4	mg/L	1.99	0.42%
Ni 231.604†	37.8	0.01835	mg/L	0.001674	0.01835	mg/L	0.001674	9.12%
Pb 220.353†	644.2	0.06624	mg/L	0.002689	0.06624	mg/L	0.002689	4.06%
Sb 206.836†	71.2	0.06307	mg/L	0.003439	0.06307	mg/L	0.003439	5.45%
Se 196.026†	-3.8	-0.00266	mg/L	0.001143	-0.00266	mg/L	0.001143	43.01%
Si 288.158†	16952.6	11.88	mg/L	0.029	11.88	mg/L	0.029	0.25%
Sn 189.927†	52.5	0.01341	mg/L	0.000526	0.01341	mg/L	0.000526	3.92%
Sr 421.552†	170972.9	0.2518	mg/L	0.00089	0.2518	mg/L	0.00089	0.35%
Ti 334.903†	14846.0	0.5670	mg/L	0.00163	0.5670	mg/L	0.00163	0.29%
Tl 190.801†	2.8	0.00182	mg/L	0.003246	0.00182	mg/L	0.003246	177.98%
V 292.402†	7417.8	0.02487	mg/L	0.000119	0.02487	mg/L	0.000119	0.48%
Zn 206.200†	552.0	0.5215	mg/L	0.00319	0.5215	mg/L	0.00319	0.61%

Sequence No.: 17
 Sample ID: JS66 D TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 68
 Date Collected: 8/24/2006 5:00:59 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS66 D TWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

rem 1/10

Mean Data: JS66 D TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1548126.6		89.18 %	0.440				0.49%
ScR 361.383	209787.3		100.7 %	0.43				0.43%
Ag 328.068†	-19909.4		-0.00683 mg/L	0.000730	-0.00683 mg/L	0.000730	10.69%	
Al 308.215†	397.0		0.2916 mg/L	0.00975	0.2916 mg/L	0.00975	3.34%	
As 188.979†	6496.3		6.204 mg/L	0.0331	6.204 mg/L	0.0331	0.53%	
B 249.677†	6570.7		2.228 mg/L	0.0159	2.228 mg/L	0.0159	0.71%	
Ba 233.527†	536.1		0.03988 mg/L	0.000644	0.03988 mg/L	0.000644	1.61%	
Be 313.042†	83.3		0.00014 mg/L	0.000020	0.00014 mg/L	0.000020	14.13%	
Ca 317.933†	4466907.9		193.3 mg/L	0.75	193.3 mg/L	0.75	0.39%	
Cd 228.802†	671.0		-0.00524 mg/L	0.000197	-0.00524 mg/L	0.000197	3.76%	
Co 228.616†	2497.3		0.02407 mg/L	0.001371	0.02407 mg/L	0.001371	5.70%	
Cr 267.716†	5247.9		0.7101 mg/L	0.00175	0.7101 mg/L	0.00175	0.25%	
Cu 324.752†	-9032.4		0.1226 mg/L	0.00075	0.1226 mg/L	0.00075	0.61%	
Fe 273.955†	1535828.0		1653 mg/L	4.1	1653 mg/L	4.1	0.25%	
K 766.490†	63900.9		41.30 mg/L	0.217	41.30 mg/L	0.217	0.53%	
Mg 279.077†	109767.2		68.15 mg/L	0.182	68.15 mg/L	0.182	0.27%	
Mn 257.610†	2095145.5		77.41 mg/L	0.253	77.41 mg/L	0.253	0.33%	
Mo 202.031†	195.7		0.01628 mg/L	0.001689	0.01628 mg/L	0.001689	10.38%	
Na 589.592†	Saturated2							
Na 330.237†	51768.2		1834 mg/L	7.4	1834 mg/L	7.4	0.40%	
Ni 231.604†	2774.3		1.346 mg/L	0.0072	1.346 mg/L	0.0072	0.53%	
Pb 220.353†	578.0		0.06042 mg/L	0.000796	0.06042 mg/L	0.000796	1.32%	
Sb 206.836†	1314.1		1.146 mg/L	0.0036	1.146 mg/L	0.0036	0.32%	
Se 196.026†	-316.6		-0.2854 mg/L	0.01843	-0.2854 mg/L	0.01843	6.46%	
Si 288.158†	2141.3		1.502 mg/L	0.0050	1.502 mg/L	0.0050	0.34%	
Sn 189.927†	-30.4		0.02837 mg/L	0.004487	0.02837 mg/L	0.004487	15.82%	
Sr 421.552†	314046.7		0.4626 mg/L	0.00191	0.4626 mg/L	0.00191	0.41%	
Ti 334.903†	164.8		0.00614 mg/L	0.000416	0.00614 mg/L	0.000416	6.77%	
Tl 190.801†	-205.1		-0.1763 mg/L	0.01646	-0.1763 mg/L	0.01646	9.34%	
V 292.402†	-1078.8		0.01234 mg/L	0.000318	0.01234 mg/L	0.000318	2.57%	
Zn 206.200†	739.0		0.6566 mg/L	0.00464	0.6566 mg/L	0.00464	0.71%	

Sequence No.: 18
 Sample ID: JT82 B SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 69
 Date Collected: 8/24/2006 5:06:33 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT82 B SWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JT82 B SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1892199.2		109.0 %	0.19				0.18%
ScR 361.383	240195.3		115.3 %	0.34				0.29%
Ag 328.068†	-3145.7	-0.00026	mg/L	0.000233	-0.00051	mg/L	0.000467	90.62%
Al 308.215†	278735.4		204.9 mg/L	0.46	409.8	mg/L	0.92	0.22%
As 188.979†	88.6	0.03519	mg/L	0.009457	0.07037	mg/L	0.018914	26.88%
B 249.677†	108.9	0.03360	mg/L	0.001903	0.06721	mg/L	0.003806	5.66%
Ba 233.527†	3491.1	1.018	mg/L	0.0036	2.036	mg/L	0.0072	0.35%
Be 313.042†	2455.3	0.00293	mg/L	0.000029	0.00586	mg/L	0.000058	1.00%
Ca 317.933†	1431320.4		61.93 mg/L	0.116	123.9	mg/L	0.23	0.19%
Cd 228.802†	69.3	-0.00047	mg/L	0.000085	-0.00095	mg/L	0.000170	17.93%
Co 228.616†	5256.6	0.1116	mg/L	0.00036	0.2233	mg/L	0.00072	0.32%
Cr 267.716†	1694.0	0.2111	mg/L	0.00037	0.4222	mg/L	0.00073	0.17%
Cu 324.752†	60738.0	0.2438	mg/L	0.00060	0.4877	mg/L	0.00119	0.24%
Fe 273.955†	218134.0		234.7 mg/L	1.24	469.5	mg/L	2.48	0.53%
K 766.490†	10105.5	6.531	mg/L	0.0309	13.06	mg/L	0.062	0.47%
Mg 279.077†	74710.1	47.04	mg/L	0.054	94.08	mg/L	0.108	0.11%
Mn 257.610†	45734.1	1.687	mg/L	0.0060	3.374	mg/L	0.0121	0.36%
Mo 202.031†	21.8	0.00542	mg/L	0.000600	0.01083	mg/L	0.001200	11.07%
Na 589.592†	58331.0	9.825	mg/L	0.0512	19.65	mg/L	0.102	0.52%
Na 330.237†	237.0	10.41	mg/L	0.649	20.83	mg/L	1.299	6.24%
Ni 231.604†	441.9	0.2143	mg/L	0.00096	0.4285	mg/L	0.00193	0.45%
Pb 220.353†	2401.7	0.2851	mg/L	0.00134	0.5702	mg/L	0.00267	0.47%
Sb 206.836†	24.6	0.02986	mg/L	0.002282	0.05972	mg/L	0.004563	7.64%
Se 196.026†	-90.4	-0.05833	mg/L	0.005010	-0.1167	mg/L	0.01002	8.59%
Si 288.158†	6281.0	4.402	mg/L	0.0233	8.805	mg/L	0.0466	0.53%
Sn 189.927†	-51.1	-0.00272	mg/L	0.001069	-0.00543	mg/L	0.002137	39.35%
Sr 421.552†	581805.3	0.8570	mg/L	0.00218	1.714	mg/L	0.0044	0.25%
Ti 334.903†	280091.9	10.70	mg/L	0.022	21.39	mg/L	0.044	0.20%
Tl 190.801†	-9.3	-0.01940	mg/L	0.003091	-0.03880	mg/L	0.006183	15.93%
V 292.402†	198372.4	0.6645	mg/L	0.00258	1.329	mg/L	0.0052	0.39%
Zn 206.200†	503.4	0.4702	mg/L	0.00411	0.9405	mg/L	0.00821	0.87%

Sequence No.: 19
 Sample ID: JT82 C SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 70
 Date Collected: 8/24/2006 5:12:48 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT82 C SWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JT82 C SWC

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1964076.6	113.1	%	0.56				0.49%
ScR 361.383	245369.2	117.8	%	0.39				0.33%
Ag 328.068†	1101.3	0.01294	mg/L	0.000214	0.02587	mg/L	0.000429	1.66%
Al 308.215†	261544.3	192.3	mg/L	0.60	384.5	mg/L	1.19	0.31%
As 188.979†	223.1	0.1656	mg/L	0.00262	0.3311	mg/L	0.00524	1.58%
B 249.677†	89.5	0.02715	mg/L	0.000297	0.05430	mg/L	0.000595	1.10%
Ba 233.527†	3374.4	0.9837	mg/L	0.00510	1.967	mg/L	0.0102	0.52%
Be 313.042†	2049.6	0.00235	mg/L	0.000045	0.00470	mg/L	0.000091	1.93%
Ca 317.933†	1080009.8	46.73	mg/L	0.146	93.46	mg/L	0.293	0.31%
Cd 228.802†	1035.1	0.02783	mg/L	0.000094	0.05565	mg/L	0.000189	0.34%
Co 228.616†	4546.3	0.09400	mg/L	0.000197	0.1880	mg/L	0.00039	0.21%
Cr 267.716†	1709.8	0.2136	mg/L	0.00076	0.4271	mg/L	0.00152	0.36%
Cu 324.752†	195486.0	0.7415	mg/L	0.00179	1.483	mg/L	0.0036	0.24%
Fe 273.955†	216687.6	233.2	mg/L	1.48	466.4	mg/L	2.96	0.64%
K 766.490†	9775.8	6.318	mg/L	0.0215	12.64	mg/L	0.043	0.34%
Mg 279.077†	62311.0	39.21	mg/L	0.130	78.41	mg/L	0.261	0.33%
Mn 257.610†	71400.1	2.637	mg/L	0.0133	5.274	mg/L	0.0266	0.50%
Mo 202.031†	24.0	0.00552	mg/L	0.000100	0.01104	mg/L	0.000201	1.82%
Na 589.592†	42252.8	7.117	mg/L	0.0283	14.23	mg/L	0.057	0.40%
Na 330.237†	200.7	7.968	mg/L	0.2175	15.94	mg/L	0.435	2.73%
Ni 231.604†	377.0	0.1828	mg/L	0.00173	0.3657	mg/L	0.00346	0.95%
Pb 220.353†	53426.7	5.496	mg/L	0.0233	10.99	mg/L	0.047	0.42%
Sb 206.836†	30.6	0.03485	mg/L	0.003777	0.06969	mg/L	0.007553	10.84%
Se 196.026†	-75.7	-0.05022	mg/L	0.005062	-0.1004	mg/L	0.01012	10.08%
Si 288.158†	14799.6	10.37	mg/L	0.227	20.74	mg/L	0.453	2.18%
Sn 189.927†	8.0	0.00713	mg/L	0.001346	0.01425	mg/L	0.002692	18.89%
Sr 421.552†	424435.8	0.6252	mg/L	0.00200	1.250	mg/L	0.0040	0.32%
Ti 334.903†	273552.7	10.45	mg/L	0.041	20.89	mg/L	0.083	0.40%
Tl 190.801†	-13.0	-0.02214	mg/L	0.002200	-0.04429	mg/L	0.004400	9.94%
V 292.402†	183519.9	0.6148	mg/L	0.00186	1.230	mg/L	0.0037	0.30%
Zn 206.200†	5674.6	5.357	mg/L	0.0247	10.71	mg/L	0.049	0.46%

Sequence No.: 20
 Sample ID: JT82 D SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 71
 Date Collected: 8/24/2006 5:19:03 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT82 D SWC

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: JT82 D SWC

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1994098.4	114.9	%	0.60				0.53%
ScR 361.383	250302.3	120.2	%	0.85				0.71%
Ag 328.068†	-1638.9	0.00237	mg/L	0.000369	0.00473	mg/L	0.000738	15.60%
Al 308.215†	184655.5	135.7	mg/L	0.59	271.5	mg/L	1.18	0.44%
As 188.979†	84.1	0.04191	mg/L	0.001717	0.08382	mg/L	0.003434	4.10%
B 249.677†	68.7	0.02034	mg/L	0.000404	0.04068	mg/L	0.000808	1.99%
Ba 233.527†	2481.0	0.7222	mg/L	0.00243	1.444	mg/L	0.00049	0.34%
Be 313.042†	1492.9	0.00162	mg/L	0.000023	0.00325	mg/L	0.000046	1.41%
Ca 317.933†	921260.6	39.86	mg/L	0.213	79.72	mg/L	0.426	0.53%
Cd 228.802†	226.8	0.00468	mg/L	0.000181	0.00936	mg/L	0.000361	3.86%
Co 228.616†	3915.2	0.08037	mg/L	0.000861	0.1607	mg/L	0.00172	1.07%
Cr 267.716†	1146.0	0.1444	mg/L	0.00045	0.2888	mg/L	0.00089	0.31%
Cu 324.752†	58803.0	0.2324	mg/L	0.00035	0.4649	mg/L	0.00070	0.15%
Fe 273.955†	172221.9	185.3	mg/L	1.16	370.7	mg/L	2.33	0.63%
K 766.490†	7856.0	5.077	mg/L	0.0295	10.15	mg/L	0.059	0.58%
Mg 279.077†	50891.3	32.02	mg/L	0.131	64.05	mg/L	0.262	0.41%
Mn 257.610†	51960.4	1.918	mg/L	0.0095	3.836	mg/L	0.0189	0.49%
Mo 202.031†	22.0	0.00426	mg/L	0.000471	0.00852	mg/L	0.000942	11.05%
Na 589.592†	36919.4	6.218	mg/L	0.0294	12.44	mg/L	0.059	0.47%
Na 330.237†	148.2	6.913	mg/L	0.1444	13.83	mg/L	0.289	2.09%
Ni 231.604†	285.0	0.1382	mg/L	0.00267	0.2764	mg/L	0.00535	1.93%
Pb 220.353†	9077.1	0.9538	mg/L	0.00464	1.908	mg/L	0.0093	0.49%
Sb 206.836†	16.5	0.02207	mg/L	0.002327	0.04415	mg/L	0.004655	10.54%
Se 196.026†	-64.1	-0.04221	mg/L	0.003624	-0.08443	mg/L	0.007248	8.58%
Si 288.158†	7321.3	5.131	mg/L	0.0705	10.26	mg/L	0.141	1.37%
Sn 189.927†	-22.3	-0.00006	mg/L	0.000880	-0.00012	mg/L	0.001759	>999.9%
Sr 421.552†	347262.6	0.5115	mg/L	0.00235	1.023	mg/L	0.0047	0.46%
Ti 334.903†	242685.0	9.268	mg/L	0.0438	18.54	mg/L	0.088	0.47%
Tl 190.801†	-4.8	-0.01379	mg/L	0.005225	-0.02759	mg/L	0.010449	37.87%
V 292.402†	150581.8	0.5039	mg/L	0.00096	1.008	mg/L	0.0019	0.19%
Zn 206.200†	1312.7	1.236	mg/L	0.0014	2.472	mg/L	0.0028	0.11%

Sequence No.: 21
 Sample ID: JS66 MBLSPK TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 72
 Date Collected: 8/24/2006 5:25:18 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS66 MBLSPK TWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS66 MBLSPK TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	1962390.5		113.0 %	0.41				0.36%
ScR 361.383	245676.7		118.0 %	0.55				0.47%
Ag 328.068†	163051.8		0.5157 mg/L	0.00048	0.5157 mg/L	0.00048		0.09%
Al 308.215†	2876.0		2.105 mg/L	0.0126	2.105 mg/L	0.0126		0.60%
As 188.979†	2269.5		2.170 mg/L	0.0088	2.170 mg/L	0.0088		0.41%
B 249.677†	18.2		0.00708 mg/L	0.001351	0.00708 mg/L	0.001351		19.10%
Ba 233.527†	6641.4		1.969 mg/L	0.0076	1.969 mg/L	0.0076		0.38%
Be 313.042†	331235.5		0.5356 mg/L	0.00208	0.5356 mg/L	0.00208		0.39%
Ca 317.933†	249669.1		10.80 mg/L	0.039	10.80 mg/L	0.039		0.36%
Cd 228.802†	17797.2		0.5214 mg/L	0.00193	0.5214 mg/L	0.00193		0.37%
Co 228.616†	20283.0		0.5103 mg/L	0.00234	0.5103 mg/L	0.00234		0.46%
Cr 267.716†	4303.2		0.5078 mg/L	0.00241	0.5078 mg/L	0.00241		0.47%
Cu 324.752†	140126.1		0.5178 mg/L	0.00055	0.5178 mg/L	0.00055		0.11%
Fe 273.955†	2054.1		2.209 mg/L	0.0124	2.209 mg/L	0.0124		0.56%
K 766.490†	16150.5		10.44 mg/L	0.074	10.44 mg/L	0.074		0.71%
Mg 279.077†	17622.4		11.14 mg/L	0.039	11.14 mg/L	0.039		0.35%
Mn 257.610†	13718.6		0.5071 mg/L	0.00134	0.5071 mg/L	0.00134		0.26%
Mo 202.031†	19.5		0.00157 mg/L	0.000210	0.00157 mg/L	0.000210		13.40%
Na 589.592†	64085.2		10.79 mg/L	0.042	10.79 mg/L	0.042		0.39%
Na 330.237†	333.2		11.59 mg/L	0.519	11.59 mg/L	0.519		4.48%
Ni 231.604†	1055.8		0.5120 mg/L	0.00043	0.5120 mg/L	0.00043		0.08%
Pb 220.353†	20927.1		2.140 mg/L	0.0088	2.140 mg/L	0.0088		0.41%
Sb 206.836†	8.6		0.00127 mg/L	0.000865	0.00127 mg/L	0.000865		68.16%
Se 196.026†	3512.6		2.192 mg/L	0.0070	2.192 mg/L	0.0070		0.32%
Si 288.158†	28.4		0.02097 mg/L	0.007503	0.02097 mg/L	0.007503		35.77%
Sn 189.927†	-15.7		-0.00143 mg/L	0.001062	-0.00143 mg/L	0.001062		74.24%
Sr 421.552†	347543.5		0.5119 mg/L	0.00142	0.5119 mg/L	0.00142		0.28%
Ti 334.903†	36.9		0.00130 mg/L	0.000553	0.00130 mg/L	0.000553		42.60%
Tl 190.801†	2479.3		2.124 mg/L	0.0122	2.124 mg/L	0.0122		0.58%
V 292.402†	159277.5		0.5399 mg/L	0.00047	0.5399 mg/L	0.00047		0.09%
Zn 206.200†	559.6		0.5287 mg/L	0.00187	0.5287 mg/L	0.00187		0.35%

Sequence No.: 22
 Sample ID: JS82 MBSPK TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 73
 Date Collected: 8/24/2006 5:31:30 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS82 MBSPK TWC

Analyte Back Pressure Flow
 All 171.0 kPa 0.50 L/min

Mean Data: JS82 MBSPK TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1953187.9		112.5 %	0.30				0.26%
ScR 361.383	245735.7		118.0 %	0.55				0.46%
Ag 328.068†	161164.7		0.5097 mg/L	0.00094	0.5097 mg/L	0.00094		0.18%
Al 308.215†	2830.8		2.062 mg/L	0.0101	2.062 mg/L	0.0101		0.49%
As 188.979†	2255.4		2.156 mg/L	0.0054	2.156 mg/L	0.0054		0.25%
B 249.677†	8.1	0.00471	mg/L	0.001378	0.00471 mg/L	0.001378		29.28%
Ba 233.527†	6519.8		1.933 mg/L	0.0094	1.933 mg/L	0.0094		0.49%
Be 313.042†	327720.5		0.5299 mg/L	0.00122	0.5299 mg/L	0.00122		0.23%
Ca 317.933†	246183.2		10.65 mg/L	0.025	10.65 mg/L	0.025		0.23%
Cd 228.802†	17707.2		0.5188 mg/L	0.00047	0.5188 mg/L	0.00047		0.09%
Co 228.616†	20106.0		0.5061 mg/L	0.00136	0.5061 mg/L	0.00136		0.27%
Cr 267.716†	4226.6		0.4987 mg/L	0.00298	0.4987 mg/L	0.00298		0.60%
Cu 324.752†	138856.2		0.5127 mg/L	0.00072	0.5127 mg/L	0.00072		0.14%
Fe 273.955†	1985.6		2.136 mg/L	0.0153	2.136 mg/L	0.0153		0.72%
K 766.490†	15936.6		10.30 mg/L	0.015	10.30 mg/L	0.015		0.15%
Mg 279.077†	17236.3		10.89 mg/L	0.017	10.89 mg/L	0.017		0.15%
Mn 257.610†	13420.7		0.4961 mg/L	0.00173	0.4961 mg/L	0.00173		0.35%
Mo 202.031†	5621.6		0.5144 mg/L	0.00158	0.5144 mg/L	0.00158		0.31%
Na 589.592†	62222.3		10.48 mg/L	0.016	10.48 mg/L	0.016		0.15%
Na 330.237†	323.9		11.26 mg/L	0.299	11.26 mg/L	0.299		2.66%
Ni 231.604†	1034.5		0.5016 mg/L	0.00572	0.5016 mg/L	0.00572		1.14%
Pb 220.353†	20719.8		2.119 mg/L	0.0051	2.119 mg/L	0.0051		0.24%
Sb 206.836†	3.8	0.00325	mg/L	0.002494	0.00325 mg/L	0.002494		76.76%
Se 196.026†	3515.8		2.194 mg/L	0.0060	2.194 mg/L	0.0060		0.28%
Si 288.158†	24.6	0.01831	mg/L	0.004969	0.01831 mg/L	0.004969		27.13%
Sn 189.927†	2475.7		0.5036 mg/L	0.00071	0.5036 mg/L	0.00071		0.14%
Sr 421.552†	343038.6		0.5053 mg/L	0.00087	0.5053 mg/L	0.00087		0.17%
Ti 334.903†	36.1	0.00074	mg/L	0.000991	0.00074 mg/L	0.000991		134.36%
Tl 190.801†	2455.8		2.105 mg/L	0.0037	2.105 mg/L	0.0037		0.17%
V 292.402†	157730.3		0.5350 mg/L	0.00067	0.5350 mg/L	0.00067		0.13%
Zn 206.200†	547.4		0.5170 mg/L	0.00283	0.5170 mg/L	0.00283		0.55%

Sequence No.: 23
Sample ID: CV 7
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/24/2006 5:37:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte Back Pressure Flow
All 170.0 kPa 0.50 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1895681.7		109.2 %	0.55				0.50%
ScR 361.383	234895.4		112.8 %	0.92				0.82%
Ag 328.068†	317075.1		1.003 mg/L	0.0019	1.003 mg/L	0.0019	0.0019	0.19%
Al 308.215†	2811.3		2.029 mg/L	0.0203	2.029 mg/L	0.0203	0.0203	1.00%
As 188.979†	2188.4		2.089 mg/L	0.0108	2.089 mg/L	0.0108	0.0108	0.52%
B 249.677†	2916.4	0.9914 mg/L	0.9914 mg/L	0.00609	0.9914 mg/L	0.00609	0.00609	0.61%
Ba 233.527†	3267.2	0.9685 mg/L	0.9685 mg/L	0.00850	0.9685 mg/L	0.00850	0.00850	0.88%
Be 313.042†	618298.3	0.9997 mg/L	0.9997 mg/L	0.00380	0.9997 mg/L	0.00380	0.00380	0.38%
Ca 317.933†	48593.0	2.102 mg/L	2.102 mg/L	0.0091	2.102 mg/L	0.0091	0.0091	0.43%
Cd 228.802†	35219.0	1.035 mg/L	1.035 mg/L	0.0016	1.035 mg/L	0.0016	0.0016	0.15%
Co 228.616†	40057.4	1.007 mg/L	1.007 mg/L	0.0018	1.007 mg/L	0.0018	0.0018	0.18%
Cr 267.716†	8156.7	0.9650 mg/L	0.9650 mg/L	0.00943	0.9650 mg/L	0.00943	0.00943	0.98%
Cu 324.752†	282893.4	1.044 mg/L	1.044 mg/L	0.0011	1.044 mg/L	0.0011	0.0011	0.10%
Fe 273.955†	1941.2	2.087 mg/L	2.087 mg/L	0.0145	2.087 mg/L	0.0145	0.0145	0.70%
K 766.490†	30373.8	19.63 mg/L	19.63 mg/L	0.016	19.63 mg/L	0.016	0.016	0.08%
Mg 279.077†	3362.5	2.129 mg/L	2.129 mg/L	0.0135	2.129 mg/L	0.0135	0.0135	0.63%
Mn 257.610†	25629.6	0.9474 mg/L	0.9474 mg/L	0.00362	0.9474 mg/L	0.00362	0.00362	0.38%
Mo 202.031†	10975.1	1.005 mg/L	1.005 mg/L	0.0059	1.005 mg/L	0.0059	0.0059	0.58%
Na 589.592†	297060.6	50.03 mg/L	50.03 mg/L	0.041	50.03 mg/L	0.041	0.041	0.08%
Na 330.237†	1433.7	50.82 mg/L	50.82 mg/L	0.245	50.82 mg/L	0.245	0.245	0.48%
Ni 231.604†	2067.9	1.004 mg/L	1.004 mg/L	0.0081	1.004 mg/L	0.0081	0.0081	0.81%
Pb 220.353†	20314.9	2.078 mg/L	2.078 mg/L	0.0091	2.078 mg/L	0.0091	0.0091	0.44%
Sb 206.836†	2474.8	2.177 mg/L	2.177 mg/L	0.0118	2.177 mg/L	0.0118	0.0118	0.54%
Se 196.026†	3386.1	2.112 mg/L	2.112 mg/L	0.0104	2.112 mg/L	0.0104	0.0104	0.49%
Si 288.158†	2973.8	2.086 mg/L	2.086 mg/L	0.0171	2.086 mg/L	0.0171	0.0171	0.82%
Sn 189.927†	4888.1	0.9951 mg/L	0.9951 mg/L	0.00391	0.9951 mg/L	0.00391	0.00391	0.39%
Sr 421.552†	667777.6	0.9836 mg/L	0.9836 mg/L	0.00240	0.9836 mg/L	0.00240	0.00240	0.24%
Ti 334.903†	26747.5	1.020 mg/L	1.020 mg/L	0.0016	1.020 mg/L	0.0016	0.0016	0.15%
Tl 190.801†	2376.1	2.035 mg/L	2.035 mg/L	0.0099	2.035 mg/L	0.0099	0.0099	0.49%
V 292.402†	301977.9	1.024 mg/L	1.024 mg/L	0.0023	1.024 mg/L	0.0023	0.0023	0.23%
Zn 206.200†	1098.6	1.037 mg/L	1.037 mg/L	0.0104	1.037 mg/L	0.0104	0.0104	1.00%

Sequence No.: 24
 Sample ID: CB
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/24/2006 5:43:59 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	1947545.4		112.2 %	0.92				0.82%
ScR 361.383	239064.3		114.8 %	0.36				0.31%
Ag 328.068†	54.4	0.00017	mg/L	0.000113	0.00017	mg/L	0.000113	65.76%
Al 308.215†	47.8	0.03515	mg/L	0.014812	0.03515	mg/L	0.014812	42.14%
As 188.979†	5.4	0.00516	mg/L	0.004853	0.00516	mg/L	0.004853	93.96%
B 249.677†	23.6	0.00801	mg/L	0.002815	0.00801	mg/L	0.002815	35.14%
Ba 233.527†	-4.2	-0.00126	mg/L	0.000060	-0.00126	mg/L	0.000060	4.77%
Be 313.042†	-104.2	-0.00017	mg/L	0.000021	-0.00017	mg/L	0.000021	12.15%
Ca 317.933†	-32.2	-0.00139	mg/L	0.000341	-0.00139	mg/L	0.000341	24.42%
Cd 228.802†	1.7	0.00004	mg/L	0.000054	0.00004	mg/L	0.000054	128.52%
Co 228.616†	5.8	0.00015	mg/L	0.000146	0.00015	mg/L	0.000146	100.24%
Cr 267.716†	5.9	0.00070	mg/L	0.000232	0.00070	mg/L	0.000232	33.25%
Cu 324.752†	-49.2	-0.00018	mg/L	0.000119	-0.00018	mg/L	0.000119	65.62%
Fe 273.955†	4.6	0.00497	mg/L	0.004067	0.00497	mg/L	0.004067	81.76%
K 766.490†	-39.3	-0.02538	mg/L	0.026399	-0.02538	mg/L	0.026399	104.03%
Mg 279.077†	20.1	0.01272	mg/L	0.007011	0.01272	mg/L	0.007011	55.12%
Mn 257.610†	8.1	0.00030	mg/L	0.000175	0.00030	mg/L	0.000175	58.50%
Mo 202.031†	3.1	0.00028	mg/L	0.000195	0.00028	mg/L	0.000195	68.49%
Na 589.592†	826.2	0.1392	mg/L	0.01587	0.1392	mg/L	0.01587	11.41%
Na 330.237†	4.0	0.1423	mg/L	0.71614	0.1423	mg/L	0.71614	503.32%
Ni 231.604†	-7.0	-0.00341	mg/L	0.003164	-0.00341	mg/L	0.003164	92.69%
Pb 220.353†	0.9	0.00010	mg/L	0.000299	0.00010	mg/L	0.000299	292.42%
Sb 206.836†	-0.7	-0.00058	mg/L	0.001514	-0.00058	mg/L	0.001514	262.63%
Se 196.026†	18.7	0.01165	mg/L	0.001269	0.01165	mg/L	0.001269	10.89%
Si 288.158†	19.3	0.01350	mg/L	0.004176	0.01350	mg/L	0.004176	30.94%
Sn 189.927†	6.0	0.00121	mg/L	0.000866	0.00121	mg/L	0.000866	71.32%
Sr 421.552†	3.4	0.00000	mg/L	0.000018	0.00000	mg/L	0.000018	359.22%
Ti 334.903†	24.2	0.00092	mg/L	0.000854	0.00092	mg/L	0.000854	92.48%
Tl 190.801†	12.3	0.01053	mg/L	0.002038	0.01053	mg/L	0.002038	19.35%
V 292.402†	69.3	0.00024	mg/L	0.000187	0.00024	mg/L	0.000187	78.38%
Zn 206.200†	2.3	0.00221	mg/L	0.000965	0.00221	mg/L	0.000965	43.58%

Sequence No.: 25
 Sample ID: JT82 E SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 74
 Date Collected: 8/24/2006 5:50:24 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT82 E SWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JT82 E SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2006529.7		115.6 %	1.16				1.00%
ScR 361.383	248635.7		119.4 %	0.79				0.66%
Ag 328.068†	-3117.5	-0.00056	mg/L	0.000156	-0.00112	mg/L	0.000312	27.92%
Al 308.215†	177574.8		130.5 mg/L	0.28	261.1	mg/L	0.56	0.21%
As 188.979†	80.4	0.03402	mg/L	0.002467	0.06804	mg/L	0.004934	7.25%
B 249.677†	42.8	0.01083	mg/L	0.002014	0.02166	mg/L	0.004027	18.59%
Ba 233.527†	2386.0	0.6906	mg/L	0.00220	1.381	mg/L	0.0044	0.32%
Be 313.042†	1858.8	0.00206	mg/L	0.000024	0.00413	mg/L	0.000049	1.18%
Ca 317.933†	1074112.4	46.47	mg/L	0.034	92.95	mg/L	0.069	0.07%
Cd 228.802†	80.1	-0.00013	mg/L	0.000176	-0.00025	mg/L	0.000352	140.40%
Co 228.616†	4962.6	0.1024	mg/L	0.00181	0.2048	mg/L	0.00361	1.76%
Cr 267.716†	1068.9	0.1374	mg/L	0.00100	0.2748	mg/L	0.00200	0.73%
Cu 324.752†	40265.1	0.1681	mg/L	0.00014	0.3362	mg/L	0.00029	0.09%
Fe 273.955†	216835.9	233.3	mg/L	0.62	466.7	mg/L	1.25	0.27%
K 766.490†	8375.4	5.413	mg/L	0.0574	10.83	mg/L	0.115	1.06%
Mg 279.077†	59263.2	37.28	mg/L	0.031	74.56	mg/L	0.062	0.08%
Mn 257.610†	97759.4	3.610	mg/L	0.0002	7.220	mg/L	0.0003	0.00%
Mo 202.031†	25.6	0.00435	mg/L	0.000283	0.00870	mg/L	0.000565	6.50%
Na 589.592†	39070.8	6.581	mg/L	0.0329	13.16	mg/L	0.066	0.50%
Na 330.237†	146.5	7.421	mg/L	0.1214	14.84	mg/L	0.243	1.64%
Ni 231.604†	328.5	0.1593	mg/L	0.00146	0.3186	mg/L	0.00291	0.91%
Pb 220.353†	997.2	0.1272	mg/L	0.00115	0.2544	mg/L	0.00230	0.90%
Sb 206.836†	13.6	0.02159	mg/L	0.000673	0.04317	mg/L	0.001346	3.12%
Se 196.026†	-77.3	-0.05237	mg/L	0.003817	-0.1047	mg/L	0.00763	7.29%
Si 288.158†	5729.7	4.016	mg/L	0.0273	8.032	mg/L	0.0546	0.68%
Sn 189.927†	-25.5	-0.00009	mg/L	0.000885	-0.00018	mg/L	0.001770	997.50%
Sr 421.552†	373284.9	0.5498	mg/L	0.00117	1.100	mg/L	0.0023	0.21%
Ti 334.903†	290072.7	11.08	mg/L	0.012	22.16	mg/L	0.024	0.11%
Tl 190.801†	-6.2	-0.01683	mg/L	0.000261	-0.03366	mg/L	0.000522	1.55%
V 292.402†	179389.9	0.6002	mg/L	0.00077	1.200	mg/L	0.0015	0.13%
Zn 206.200†	572.1	0.5350	mg/L	0.00402	1.070	mg/L	0.0080	0.75%

Sequence No.: 26
Sample ID: JT82 F SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 75
Date Collected: 8/24/2006 5:56:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT82 F SWC

Analyte Back Pressure Flow
All 170.0 kPa 0.50 L/min

new 1/5

Mean Data: JT82 F SWC

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2032831.9	117.1	%	0.20				0.17%
ScR 361.383	258185.7	124.0	%	0.45				0.36%
Ag 328.068†	-2342.8	0.00323	mg/L	0.000207	0.00647	mg/L	0.000414	6.40%
Al 308.215†	248095.4	182.4	mg/L	0.23	364.7	mg/L	0.45	0.12%
As 188.979†	151.2	0.09216	mg/L	0.008262	0.1843	mg/L	0.01652	8.97%
B 249.677†	52.9	0.01385	mg/L	0.001166	0.02769	mg/L	0.002333	8.42%
Ba 233.527†	3975.2	1.160	mg/L	0.0035	2.320	mg/L	0.0071	0.31%
Be 313.042†	2236.1	0.00251	mg/L	0.000012	0.00502	mg/L	0.000025	0.49%
Ca 317.933†	1229955.0	53.22	mg/L	0.082	106.4	mg/L	0.16	0.15%
Cd 228.802†	420.8	0.00952	mg/L	0.000059	0.01905	mg/L	0.000118	0.62%
Co 228.616†	5589.1	0.1155	mg/L	0.00063	0.2311	mg/L	0.00126	0.55%
Cr 267.716†	1533.8	0.1944	mg/L	0.00161	0.3888	mg/L	0.00322	0.83%
Cu 324.752†	106625.0	0.4154	mg/L	0.00067	0.8308	mg/L	0.00134	0.16%
Fe 273.955†	242598.3	261.1	mg/L	1.19	522.1	mg/L	2.39	0.46%
K 766.490†	10322.2	6.671	mg/L	0.0226	13.34	mg/L	0.045	0.34%
Mg 279.077†	66942.3	42.11	mg/L	0.046	84.23	mg/L	0.092	0.11%
Mn 257.610†	71686.0	2.647	mg/L	0.0092	5.293	mg/L	0.0184	0.35%
Mo 202.031†	24.7	0.00530	mg/L	0.000453	0.01060	mg/L	0.000906	8.54%
Na 589.592†	45243.6	7.620	mg/L	0.0372	15.24	mg/L	0.074	0.49%
Na 330.237†	179.3	8.492	mg/L	0.3886	16.98	mg/L	0.777	4.58%
Ni 231.604†	407.9	0.1978	mg/L	0.00296	0.3956	mg/L	0.00592	1.50%
Pb 220.353†	17030.7	1.776	mg/L	0.0064	3.551	mg/L	0.0129	0.36%
Sb 206.836†	26.0	0.03338	mg/L	0.002330	0.06677	mg/L	0.004660	6.98%
Se 196.026†	-85.5	-0.05639	mg/L	0.004635	-0.1128	mg/L	0.00927	8.22%
Si 288.158†	11587.8	8.122	mg/L	0.0957	16.24	mg/L	0.191	1.18%
Sn 189.927†	-8.4	0.00422	mg/L	0.000453	0.00844	mg/L	0.000907	10.74%
Sr 421.552†	538565.8	0.7933	mg/L	0.00091	1.587	mg/L	0.0018	0.11%
Ti 334.903†	332026.1	12.68	mg/L	0.027	25.36	mg/L	0.055	0.22%
Tl 190.801†	-6.5	-0.01883	mg/L	0.004643	-0.03765	mg/L	0.009287	24.67%
V 292.402†	210808.7	0.7055	mg/L	0.00076	1.411	mg/L	0.0015	0.11%
Zn 206.200†	2400.5	2.262	mg/L	0.0118	4.524	mg/L	0.0235	0.52%

Sequence No.: 27
 Sample ID: JT82 G SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 76
 Date Collected: 8/24/2006 6:02:54 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT82 G SWC

Analyte Back Pressure Flow
 All 171.0 kPa 0.50 L/min

Mean Data: JT82 G SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2035831.9		117.3 %	0.10				0.09%
ScR 361.383	258351.4		124.0 %	0.54				0.43%
Ag 328.068†	-2830.2	0.00028	mg/L	0.000383	0.00057	mg/L	0.000767	134.99%
Al 308.215†	173304.2	127.4	mg/L	0.18	254.8	mg/L	0.36	0.14%
As 188.979†	94.3	0.04532	mg/L	0.004012	0.09064	mg/L	0.008023	8.85%
B 249.677†	41.1	0.00996	mg/L	0.000412	0.01993	mg/L	0.000823	4.13%
Ba 233.527†	3081.5	0.8973	mg/L	0.00180	1.795	mg/L	0.0036	0.20%
Be 313.042†	1720.3	0.00182	mg/L	0.000005	0.00364	mg/L	0.000011	0.29%
Ca 317.933†	1064144.1	46.04	mg/L	0.020	92.09	mg/L	0.040	0.04%
Cd 228.802†	172.6	0.00264	mg/L	0.000163	0.00528	mg/L	0.000326	6.19%
Co 228.616†	5039.7	0.1029	mg/L	0.00021	0.2059	mg/L	0.00042	0.21%
Cr 267.716†	1071.4	0.1380	mg/L	0.00066	0.2760	mg/L	0.00132	0.48%
Cu 324.752†	51890.2	0.2102	mg/L	0.00073	0.4205	mg/L	0.00145	0.35%
Fe 273.955†	210839.9	226.9	mg/L	0.31	453.8	mg/L	0.62	0.14%
K 766.490†	7971.6	5.152	mg/L	0.0327	10.30	mg/L	0.065	0.63%
Mg 279.077†	56405.5	35.48	mg/L	0.016	70.96	mg/L	0.032	0.05%
Mn 257.610†	64780.9	2.392	mg/L	0.0021	4.784	mg/L	0.0043	0.09%
Mo 202.031†	26.0	0.00436	mg/L	0.000457	0.00872	mg/L	0.000915	10.49%
Na 589.592†	41775.9	7.036	mg/L	0.0073	14.07	mg/L	0.015	0.10%
Na 330.237†	156.7	7.904	mg/L	0.0739	15.81	mg/L	0.148	0.94%
Ni 231.604†	330.3	0.1602	mg/L	0.00098	0.3203	mg/L	0.00196	0.61%
Pb 220.353†	5022.4	0.5379	mg/L	0.00178	1.076	mg/L	0.0036	0.33%
Sb 206.836†	12.5	0.02140	mg/L	0.001722	0.04280	mg/L	0.003444	8.05%
Se 196.026†	-78.1	-0.05149	mg/L	0.002069	-0.1030	mg/L	0.00414	4.02%
Si 288.158†	5993.4	4.201	mg/L	0.0660	8.401	mg/L	0.1320	1.57%
Sn 189.927†	-20.3	0.00078	mg/L	0.000452	0.00155	mg/L	0.000904	58.21%
Sr 421.552†	345581.9	0.5090	mg/L	0.00046	1.018	mg/L	0.0009	0.09%
Ti 334.903†	312204.5	11.92	mg/L	0.001	23.85	mg/L	0.002	0.01%
Tl 190.801†	-4.8	-0.01645	mg/L	0.001710	-0.03291	mg/L	0.003420	10.39%
V 292.402†	183388.6	0.6131	mg/L	0.00177	1.226	mg/L	0.0035	0.29%
Zn 206.200†	971.8	0.9128	mg/L	0.00063	1.826	mg/L	0.0013	0.07%

Sequence No.: 28
 Sample ID: JT82 H SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 77
 Date Collected: 8/24/2006 6:09:09 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT82 H SWC

Analyte Back Pressure Flow
 All 171.0 kPa 0.50 L/min

Mean Data: JT82 H SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2058129.2		118.6 %	0.50				0.42%
ScR 361.383	258761.4		124.2 %	1.23				0.99%
Ag 328.068†	-2042.1		0.00212 mg/L	0.000091	0.00424 mg/L		0.000182	4.29%
Al 308.215†	165212.2		121.4 mg/L	0.92	242.9 mg/L		1.83	0.76%
As 188.979†	111.8		0.06500 mg/L	0.001855	0.1300 mg/L		0.00371	2.85%
B 249.677†	35.7		0.00846 mg/L	0.002731	0.01692 mg/L		0.005462	32.28%
Ba 233.527†	2142.8		0.6201 mg/L	0.00741	1.240 mg/L		0.0148	1.19%
Be 313.042†	1622.0		0.00172 mg/L	0.000056	0.00343 mg/L		0.000113	3.28%
Ca 317.933†	973946.4		42.14 mg/L	0.247	84.28 mg/L		0.494	0.59%
Cd 228.802†	248.7		0.00504 mg/L	0.000085	0.01008 mg/L		0.000170	1.69%
Co 228.616†	4657.7		0.09518 mg/L	0.000596	0.1904 mg/L		0.00119	0.63%
Cr 267.716†	1049.5		0.1346 mg/L	0.00194	0.2693 mg/L		0.00387	1.44%
Cu 324.752†	69325.7		0.2733 mg/L	0.00020	0.5466 mg/L		0.00040	0.07%
Fe 273.955†	195394.8		210.3 mg/L	1.35	420.5 mg/L		2.70	0.64%
K 766.490†	7848.4		5.072 mg/L	0.0961	10.14 mg/L		0.192	1.89%
Mg 279.077†	52222.4		32.85 mg/L	0.218	65.70 mg/L		0.437	0.66%
Mn 257.610†	57416.7		2.120 mg/L	0.0139	4.240 mg/L		0.0278	0.66%
Mo 202.031†	31.8		0.00482 mg/L	0.000257	0.00964 mg/L		0.000514	5.34%
Na 589.592†	35349.7		5.954 mg/L	0.0465	11.91 mg/L		0.093	0.78%
Na 330.237†	130.5		6.687 mg/L	0.1309	13.37 mg/L		0.262	1.96%
Ni 231.604†	310.9		0.1508 mg/L	0.00201	0.3015 mg/L		0.00403	1.34%
Pb 220.353†	9384.7		0.9825 mg/L	0.00741	1.965 mg/L		0.0148	0.75%
Sb 206.836†	13.3		0.02121 mg/L	0.001892	0.04243 mg/L		0.003784	8.92%
Se 196.026†	-69.7		-0.04592 mg/L	0.005360	-0.09185 mg/L		0.010720	11.67%
Si 288.158†	3967.2		2.781 mg/L	0.0549	5.561 mg/L		0.1098	1.97%
Sn 189.927†	-16.7		0.00110 mg/L	0.001820	0.00219 mg/L		0.003641	165.92%
Sr 421.552†	323474.9		0.4765 mg/L	0.00333	0.9529 mg/L		0.00667	0.70%
Ti 334.903†	289445.0		11.05 mg/L	0.073	22.11 mg/L		0.147	0.66%
Tl 190.801†	-4.8		-0.01556 mg/L	0.003485	-0.03112 mg/L		0.006969	22.40%
V 292.402†	172665.2		0.5773 mg/L	0.00058	1.155 mg/L		0.0012	0.10%
Zn 206.200†	1415.1		1.332 mg/L	0.0148	2.664 mg/L		0.0296	1.11%

Sequence No.: 29
 Sample ID: JT82 I SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 78
 Date Collected: 8/24/2006 6:15:24 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT82 I SWC
 Analyte Back Pressure Flow
 All 171.0 kPa 0.50 L/min

Mean Data: JT82 I SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2041766.4		117.6 %	0.91				0.77%
ScR 361.383	262125.3		125.9 %	0.44				0.35%
Ag 328.068†	165.0	0.01020	mg/L	0.000028	0.02040	mg/L	0.000057	0.28%
Al 308.215†	237022.1	174.2	mg/L	0.68	348.5	mg/L	1.37	0.39%
As 188.979†	220.3	0.1639	mg/L	0.00575	0.3278	mg/L	0.01151	3.51%
B 249.677†	43.6	0.01141	mg/L	0.003554	0.02282	mg/L	0.007109	31.15%
Ba 233.527†	3057.8	0.8894	mg/L	0.00437	1.779	mg/L	0.0087	0.49%
Be 313.042†	1996.3	0.00226	mg/L	0.000011	0.00453	mg/L	0.000021	0.47%
Ca 317.933†	1095103.6	47.38	mg/L	0.200	94.76	mg/L	0.400	0.42%
Cd 228.802†	997.8	0.02668	mg/L	0.000229	0.05337	mg/L	0.000458	0.86%
Co 228.616†	4769.9	0.09875	mg/L	0.000727	0.1975	mg/L	0.00145	0.74%
Cr 267.716†	1509.7	0.1902	mg/L	0.00202	0.3803	mg/L	0.00404	1.06%
Cu 324.752†	179773.6	0.6839	mg/L	0.00088	1.368	mg/L	0.0018	0.13%
Fe 273.955†	221410.0	238.3	mg/L	1.45	476.5	mg/L	2.91	0.61%
K 766.490†	9562.8	6.180	mg/L	0.0452	12.36	mg/L	0.090	0.73%
Mg 279.077†	63764.2	40.12	mg/L	0.169	80.24	mg/L	0.339	0.42%
Mn 257.610†	69659.5	2.573	mg/L	0.0089	5.145	mg/L	0.0178	0.35%
Mo 202.031†	23.5	0.00505	mg/L	0.000220	0.01011	mg/L	0.000440	4.35%
Na 589.592†	38394.2	6.467	mg/L	0.0182	12.93	mg/L	0.036	0.28%
Na 330.237†	186.9	7.633	mg/L	0.0743	15.27	mg/L	0.149	0.97%
Ni 231.604†	391.3	0.1897	mg/L	0.00089	0.3795	mg/L	0.00178	0.47%
Pb 220.353†	50113.0	5.154	mg/L	0.0145	10.31	mg/L	0.029	0.28%
Sb 206.836†	26.1	0.03151	mg/L	0.000991	0.06301	mg/L	0.001983	3.15%
Se 196.026†	-87.0	-0.05720	mg/L	0.008217	-0.1144	mg/L	0.01643	14.37%
Si 288.158†	6826.6	4.785	mg/L	0.0766	9.569	mg/L	0.1533	1.60%
Sn 189.927†	-5.5	0.00441	mg/L	0.000697	0.00882	mg/L	0.001394	15.80%
Sr 421.552†	393484.3	0.5796	mg/L	0.00217	1.159	mg/L	0.0043	0.37%
Ti 334.903†	280724.1	10.72	mg/L	0.038	21.44	mg/L	0.075	0.35%
Tl 190.801†	-10.1	-0.01993	mg/L	0.002264	-0.03986	mg/L	0.004529	11.36%
V 292.402†	183487.4	0.6144	mg/L	0.00086	1.229	mg/L	0.0017	0.14%
Zn 206.200†	5299.1	5.002	mg/L	0.0309	10.00	mg/L	0.062	0.62%

Sequence No.: 30

Sample ID: JT82 A-L SWC

Analyst: BLW

Initial Sample Wt:

Dilution: 10X

Autosampler Location: 79

Date Collected: 8/24/2006 6:21:40 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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BLW
 8.25

Nebulizer Parameters: JT82 A-L SWC

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: JT82 A-L SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2037299.6		117.4 %	0.77				0.66%
ScR 361.383	259051.5		124.4 %	0.62				0.50%
Ag 328.068†	-438.8	0.00088	mg/L	0.000063	0.00878	mg/L	0.000634	7.22%
Al 308.215†	63010.6	46.32	mg/L	0.137	463.2	mg/L	1.37	0.30%
As 188.979†	31.1	0.01856	mg/L	0.003572	0.1856	mg/L	0.03572	19.25%
B 249.677†	10.6	0.00287	mg/L	0.001329	0.02870	mg/L	0.013289	46.30%
Ba 233.527†	763.8	0.2224	mg/L	0.00160	2.224	mg/L	0.0160	0.72%
Be 313.042†	391.1	0.00040	mg/L	0.000021	0.00404	mg/L	0.000206	5.10%
Ca 317.933†	288438.3	12.48	mg/L	0.018	124.8	mg/L	0.18	0.15%
Cd 228.802†	88.3	0.00199	mg/L	0.000208	0.01991	mg/L	0.002085	10.47%
Co 228.616†	1166.4	0.02462	mg/L	0.000155	0.2462	mg/L	0.00155	0.63%
Cr 267.716†	409.3	0.05104	mg/L	0.000470	0.5104	mg/L	0.00470	0.92%
Cu 324.752†	25359.0	0.09835	mg/L	0.000854	0.9835	mg/L	0.00854	0.87%
Fe 273.955†	52035.1	56.00	mg/L	0.271	560.0	mg/L	2.71	0.48%
K 766.490†	1957.3	1.265	mg/L	0.0036	12.65	mg/L	0.036	0.29%
Mg 279.077†	15850.6	9.976	mg/L	0.0186	99.76	mg/L	0.186	0.19%
Mn 257.610†	17891.3	0.6605	mg/L	0.00205	6.605	mg/L	0.0205	0.31%
Mo 202.031†	11.0	0.00179	mg/L	0.000091	0.01792	mg/L	0.000912	5.09%
Na 589.592†	11460.8	1.930	mg/L	0.0045	19.30	mg/L	0.045	0.24%
Na 330.237†	67.6	2.765	mg/L	0.1025	27.65	mg/L	1.025	3.71%
Ni 231.604†	98.0	0.04752	mg/L	0.000887	0.4752	mg/L	0.00887	1.87%
Pb 220.353†	3296.7	0.3458	mg/L	0.00231	3.458	mg/L	0.0231	0.67%
Sb 206.836†	3.8	0.00515	mg/L	0.002984	0.05149	mg/L	0.029836	57.94%
Se 196.026†	-14.9	-0.01004	mg/L	0.004676	-0.1004	mg/L	0.04676	46.56%
Si 288.158†	1785.2	1.251	mg/L	0.0096	12.51	mg/L	0.096	0.77%
Sn 189.927†	-7.7	-0.00008	mg/L	0.002578	-0.00077	mg/L	0.025781	>999.9%
Sr 421.552†	110589.9	0.1629	mg/L	0.00033	1.629	mg/L	0.0033	0.21%
Ti 334.903†	63273.6	2.416	mg/L	0.0091	24.16	mg/L	0.091	0.38%
Tl 190.801†	1.6	-0.00118	mg/L	0.003144	-0.01183	mg/L	0.031439	265.86%
V 292.402†	43525.7	0.1458	mg/L	0.00153	1.458	mg/L	0.0153	1.05%
Zn 206.200†	531.7	0.5011	mg/L	0.00608	5.011	mg/L	0.0608	1.21%

Sequence No.: 31
 Sample ID: JT82 A SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 80
 Date Collected: 8/24/2006 6:28:07 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

 Nebulizer Parameters: JT82 A SWC

Analyte Back Pressure Flow
 All 171.0 kPa 0.50 L/min

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 Mean Data: JT82 A SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2071189.2		119.3 %	0.38				0.32%
ScR 361.383	260859.0		125.2 %	1.17				0.93%
Ag 328.068†	-2236.8	0.00330	mg/L	0.000196	0.00660	mg/L	0.000391	5.93%
Al 308.215†	299224.2	220.0	mg/L	0.47	439.9	mg/L	0.93	0.21%
As 188.979†	120.2	0.06173	mg/L	0.002680	0.1235	mg/L	0.00536	4.34%
B 249.677†	56.2	0.01552	mg/L	0.002119	0.03105	mg/L	0.004238	13.65%
Ba 233.527†	3562.6	1.038	mg/L	0.0092	2.076	mg/L	0.0183	0.88%
Be 313.042†	2277.8	0.00259	mg/L	0.000040	0.00517	mg/L	0.000079	1.53%
Ca 317.933†	1353194.6	58.55	mg/L	0.180	117.1	mg/L	0.36	0.31%
Cd 228.802†	436.1	0.01008	mg/L	0.000044	0.02016	mg/L	0.000089	0.44%
Co 228.616†	5345.2	0.1121	mg/L	0.00041	0.2243	mg/L	0.00082	0.37%
Cr 267.716†	1893.8	0.2360	mg/L	0.00191	0.4719	mg/L	0.00383	0.81%
Cu 324.752†	122984.8	0.4756	mg/L	0.00071	0.9512	mg/L	0.00141	0.15%
Fe 273.955†	238087.9	256.2	mg/L	1.22	512.4	mg/L	2.44	0.48%
K 766.490†	10690.1	6.909	mg/L	0.0309	13.82	mg/L	0.062	0.45%
Mg 279.077†	72660.5	45.73	mg/L	0.076	91.46	mg/L	0.152	0.17%
Mn 257.610†	82208.5	3.035	mg/L	0.0108	6.070	mg/L	0.0216	0.36%
Mo 202.031†	15.4	0.00519	mg/L	0.000740	0.01038	mg/L	0.001479	14.25%
Na 589.592†	54736.2	9.219	mg/L	0.0429	18.44	mg/L	0.086	0.47%
Na 330.237†	238.9	10.27	mg/L	0.073	20.55	mg/L	0.146	0.71%
Ni 231.604†	476.8	0.2312	mg/L	0.00183	0.4624	mg/L	0.00366	0.79%
Pb 220.353†	15250.9	1.601	mg/L	0.0076	3.202	mg/L	0.0153	0.48%
Sb 206.836†	20.6	0.02696	mg/L	0.003708	0.05392	mg/L	0.007417	13.75%
Se 196.026†	-89.1	-0.05904	mg/L	0.004991	-0.1181	mg/L	0.00998	8.45%
Si 288.158†	8704.8	6.101	mg/L	0.1190	12.20	mg/L	0.238	1.95%
Sn 189.927†	-15.0	0.00394	mg/L	0.001841	0.00788	mg/L	0.003681	46.71%
Sr 421.552†	527691.0	0.7773	mg/L	0.00155	1.555	mg/L	0.0031	0.20%
Ti 334.903†	302355.7	11.55	mg/L	0.023	23.09	mg/L	0.047	0.20%
Tl 190.801†	-11.7	-0.02226	mg/L	0.004732	-0.04453	mg/L	0.009463	21.25%
V 292.402†	208767.2	0.6995	mg/L	0.00180	1.399	mg/L	0.0036	0.26%
Zn 206.200†	2395.9	2.258	mg/L	0.0190	4.516	mg/L	0.0380	0.84%

Sequence No.: 32
 Sample ID: JT82 ADUP SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 81
 Date Collected: 8/24/2006 6:34:23 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT82 ADUP SWC

Analyte Back Pressure Flow
 All 171.0 kPa 0.50 L/min

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Mean Data: JT82 ADUP SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2053440.0		118.3 %	0.35				0.29%
ScR 361.383	259288.5		124.5 %	0.39				0.31%
Ag 328.068†	-1303.0		0.00201 mg/L	0.000138	0.00402 mg/L	0.000277		6.89%
Al 308.215†	167080.5		122.8 mg/L	0.39	245.6 mg/L	0.79		0.32%
As 188.979†	69.9		0.03443 mg/L	0.001143	0.06887 mg/L	0.002286		3.32%
B 249.677†	36.4		0.01013 mg/L	0.000248	0.02026 mg/L	0.000496		2.45%
Ba 233.527†	19834.5		5.871 mg/L	0.0130	11.74 mg/L	0.026		0.22%
Be 313.042†	1212.4		0.00135 mg/L	0.000018	0.00269 mg/L	0.000036		1.33%
Ca 317.933†	764707.8		33.09 mg/L	0.148	66.17 mg/L	0.295		0.45%
Cd 228.802†	218.7		0.00457 mg/L	0.000166	0.00914 mg/L	0.000332		3.64%
Co 228.616†	3243.3		0.06639 mg/L	0.000277	0.1328 mg/L	0.00055		0.42%
Cr 267.716†	1083.8		0.1354 mg/L	0.00047	0.2708 mg/L	0.00095		0.35%
Cu 324.752†	59293.7		0.2315 mg/L	0.00071	0.4630 mg/L	0.00142		0.31%
Fe 273.955†	140316.4		151.0 mg/L	1.01	302.0 mg/L	2.02		0.67%
K 766.490†	5898.3		3.812 mg/L	0.0371	7.624 mg/L	0.0743		0.97%
Mg 279.077†	41744.1		26.27 mg/L	0.064	52.54 mg/L	0.128		0.24%
Mn 257.610†	44911.9		1.658 mg/L	0.0089	3.316 mg/L	0.0177		0.53%
Mo 202.031†	19.8		0.00391 mg/L	0.000339	0.00782 mg/L	0.000678		8.68%
Na 589.592†	29393.1		4.951 mg/L	0.0292	9.901 mg/L	0.0585		0.59%
Na 330.237†	128.2		5.731 mg/L	0.3303	11.46 mg/L	0.661		5.76%
Ni 231.604†	266.4		0.1292 mg/L	0.00109	0.2584 mg/L	0.00218		0.84%
Pb 220.353†	8167.2		0.8583 mg/L	0.00549	1.717 mg/L	0.0110		0.64%
Sb 206.836†	14.9		0.01860 mg/L	0.000213	0.03720 mg/L	0.000427		1.15%
Se 196.026†	-61.5		-0.04029 mg/L	0.000372	-0.08058 mg/L	0.000745		0.92%
Si 288.158†	6167.8		4.323 mg/L	0.0353	8.646 mg/L	0.0706		0.82%
Sn 189.927†	-6.3		0.00253 mg/L	0.000702	0.00505 mg/L	0.001404		27.78%
Sr 421.552†	348294.0		0.5130 mg/L	0.00187	1.026 mg/L	0.0037		0.37%
Ti 334.903†	188142.4		7.185 mg/L	0.0240	14.37 mg/L	0.048		0.33%
Tl 190.801†	-3.5		-0.01054 mg/L	0.004823	-0.02107 mg/L	0.009646		45.77%
V 292.402†	116970.9		0.3916 mg/L	0.00159	0.7832 mg/L	0.00317		0.40%
Zn 206.200†	1345.3		1.268 mg/L	0.0058	2.535 mg/L	0.0116		0.46%

60%

32%

Sequence No.: 33
Sample ID: JT82 ASPK SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 82
Date Collected: 8/24/2006 6:40:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT82 ASPK SWC

Analyte Back Pressure Flow
All 171.0 kPa 0.50 L/min

*rem
1/5*

Mean Data: JT82 ASPK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2026123.5	116.7 %	%	0.54			0.46%
ScR 361.383	261061.2	125.3 %	%	0.56			0.45%
Ag 328.068†	156848.6	0.5066 mg/L	mg/L	0.00203	1.013 mg/L	0.0041	0.40%
Al 308.215†	289713.0	213.0 mg/L	mg/L	0.80	425.9 mg/L	1.61	0.38%
As 188.979†	2214.6	2.066 mg/L	mg/L	0.0074	4.131 mg/L	0.0148	0.36%
B 249.677†	47.0	0.01340 mg/L	mg/L	0.001172	0.02679 mg/L	0.002344	8.75%
Ba 233.527†	10107.7	2.978 mg/L	mg/L	0.0189	5.957 mg/L	0.0378	0.63%
Be 313.042†	326270.2	0.5265 mg/L	mg/L	0.00194	1.053 mg/L	0.0039	0.37%
Ca 317.933†	1551411.5	67.13 mg/L	mg/L	0.234	134.3 mg/L	0.47	0.35%
Cd 228.802†	17571.3	0.5122 mg/L	mg/L	0.00039	1.024 mg/L	0.0008	0.08%
Co 228.616†	24256.0	0.5883 mg/L	mg/L	0.00296	1.177 mg/L	0.0059	0.50%
Cr 267.716†	5886.6	0.7073 mg/L	mg/L	0.00469	1.415 mg/L	0.0094	0.66%
Cu 324.752†	269507.6	1.017 mg/L	mg/L	0.0022	2.035 mg/L	0.0043	0.21%
Fe 273.955†	242964.0	261.5 mg/L	mg/L	1.70	522.9 mg/L	3.39	0.65%
K 766.490†	25413.1	16.42 mg/L	mg/L	0.067	32.85 mg/L	0.135	0.41%
Mg 279.077†	90321.8	56.89 mg/L	mg/L	0.184	113.8 mg/L	0.37	0.32%
Mn 257.610†	92140.1	3.402 mg/L	mg/L	0.0160	6.805 mg/L	0.0320	0.47%
Mo 202.031†	30.6	0.00617 mg/L	mg/L	0.000308	0.01234 mg/L	0.000615	4.99%
Na 589.592†	108474.7	18.27 mg/L	mg/L	0.066	36.54 mg/L	0.132	0.36%
Na 330.237†	493.4	18.98 mg/L	mg/L	0.400	37.96 mg/L	0.799	2.11%
Ni 231.604†	1469.4	0.7125 mg/L	mg/L	0.00520	1.425 mg/L	0.0104	0.73%
Pb 220.353†	38604.3	3.987 mg/L	mg/L	0.0235	7.973 mg/L	0.0470	0.59%
Sb 206.836†	34.2	0.03272 mg/L	mg/L	0.013698	0.06544 mg/L	0.027396	41.86%
Se 196.026†	3155.7	1.966 mg/L	mg/L	0.0082	3.931 mg/L	0.0165	0.42%
Si 288.158†	10842.0	7.600 mg/L	mg/L	0.1618	15.20 mg/L	0.324	2.13%
Sn 189.927†	-25.5	0.00325 mg/L	mg/L	0.002487	0.00651 mg/L	0.004974	76.41%
Sr 421.552†	854638.8	1.259 mg/L	mg/L	0.0049	2.518 mg/L	0.0098	0.39%
Ti 334.903†	292818.3	11.18 mg/L	mg/L	0.041	22.36 mg/L	0.081	0.36%
Tl 190.801†	2190.4	1.864 mg/L	mg/L	0.0120	3.728 mg/L	0.0241	0.65%
V 292.402†	350538.5	1.180 mg/L	mg/L	0.0054	2.361 mg/L	0.0107	0.45%
Zn 206.200†	3024.1	2.851 mg/L	mg/L	0.0137	5.703 mg/L	0.0274	0.48%

Sequence No.: 34
 Sample ID: JT82 MBLSPK SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 83
 Date Collected: 8/24/2006 6:46:14 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT82 MBLSPK SWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JT82 MBLSPK SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2021676.7		116.5 %	1.34				1.15%
ScR 361.383	251765.3		120.9 %	0.53				0.44%
Ag 328.068†	161834.7		0.5119 mg/L	0.00084	1.024 mg/L		0.0017	0.16%
Al 308.215†	2890.6		2.116 mg/L	0.0060	4.232 mg/L		0.0120	0.28%
As 188.979†	2254.7		2.155 mg/L	0.0252	4.311 mg/L		0.0504	1.17%
B 249.677†	9.7	0.00420	mg/L	0.001483	0.00841 mg/L		0.002967	35.29%
Ba 233.527†	6634.1		1.967 mg/L	0.0127	3.934 mg/L		0.0253	0.64%
Be 313.042†	331508.0		0.5360 mg/L	0.00191	1.072 mg/L		0.0038	0.36%
Ca 317.933†	250203.9		10.83 mg/L	0.036	21.65 mg/L		0.071	0.33%
Cd 228.802†	17693.9		0.5184 mg/L	0.00513	1.037 mg/L		0.0103	0.99%
Co 228.616†	20136.0		0.5066 mg/L	0.00511	1.013 mg/L		0.0102	1.01%
Cr 267.716†	4306.8		0.5082 mg/L	0.00482	1.016 mg/L		0.0096	0.95%
Cu 324.752†	140628.3		0.5196 mg/L	0.00082	1.039 mg/L		0.0016	0.16%
Fe 273.955†	2042.2		2.196 mg/L	0.0160	4.393 mg/L		0.0320	0.73%
K 766.490†	15913.6		10.28 mg/L	0.033	20.57 mg/L		0.066	0.32%
Mg 279.077†	17468.4		11.04 mg/L	0.010	22.08 mg/L		0.020	0.09%
Mn 257.610†	13595.8		0.5026 mg/L	0.00102	1.005 mg/L		0.0020	0.20%
Mo 202.031†	18.8	0.00150	mg/L	0.000498	0.00301 mg/L		0.000996	33.13%
Na 589.592†	61344.1		10.33 mg/L	0.021	20.66 mg/L		0.043	0.21%
Na 330.237†	326.1		11.33 mg/L	0.586	22.67 mg/L		1.171	5.17%
Ni 231.604†	1058.6		0.5133 mg/L	0.00434	1.027 mg/L		0.0087	0.85%
Pb 220.353†	21029.0		2.150 mg/L	0.0065	4.300 mg/L		0.0131	0.30%
Sb 206.836†	7.4	0.00020	mg/L	0.000915	0.00041 mg/L		0.001829	450.08%
Se 196.026†	3526.3		2.200 mg/L	0.0197	4.401 mg/L		0.0394	0.89%
Si 288.158†	30.2	0.02226	mg/L	0.002908	0.04452 mg/L		0.005816	13.06%
Sn 189.927†	-17.9	-0.00188	mg/L	0.001073	-0.00376 mg/L		0.002146	57.14%
Sr 421.552†	343821.1		0.5064 mg/L	0.00090	1.013 mg/L		0.0018	0.18%
Ti 334.903†	107.7	0.00400	mg/L	0.000752	0.00800 mg/L		0.001505	18.81%
Tl 190.801†	2465.6		2.112 mg/L	0.0129	4.224 mg/L		0.0258	0.61%
V 292.402†	157282.3		0.5332 mg/L	0.00066	1.066 mg/L		0.0013	0.12%
Zn 206.200†	571.7		0.5402 mg/L	0.00607	1.080 mg/L		0.0121	1.12%

Sequence No.: 35
 Sample ID: CV 8
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 7
 Date Collected: 8/24/2006 6:52:29 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1993984.2	114.9 %	0.46			0.40%
ScR 361.383	245953.4	118.1 %	1.16			0.98%
Ag 328.068†	315667.3	0.9983 mg/L	0.00200	0.9983 mg/L	0.00200	0.20%
Al 308.215†	2796.0	2.018 mg/L	0.0219	2.018 mg/L	0.0219	1.09%
As 188.979†	2189.9	2.090 mg/L	0.0088	2.090 mg/L	0.0088	0.42%
B 249.677†	2930.8	0.9963 mg/L	0.00905	0.9963 mg/L	0.00905	0.91%
Ba 233.527†	3284.8	0.9737 mg/L	0.01177	0.9737 mg/L	0.01177	1.21%
Be 313.042†	625722.1	1.012 mg/L	0.0070	1.012 mg/L	0.0070	0.69%
Ca 317.933†	49318.4	2.134 mg/L	0.0140	2.134 mg/L	0.0140	0.66%
Cd 228.802†	35334.6	1.038 mg/L	0.0024	1.038 mg/L	0.0024	0.23%
Co 228.616†	40136.0	1.009 mg/L	0.0023	1.009 mg/L	0.0023	0.22%
Cr 267.716†	8213.7	0.9717 mg/L	0.01146	0.9717 mg/L	0.01146	1.18%
Cu 324.752†	281600.2	1.040 mg/L	0.0008	1.040 mg/L	0.0008	0.07%
Fe 273.955†	1974.6	2.122 mg/L	0.0193	2.122 mg/L	0.0193	0.91%
K 766.490†	30523.3	19.73 mg/L	0.133	19.73 mg/L	0.133	0.67%
Mg 279.077†	3387.0	2.144 mg/L	0.0263	2.144 mg/L	0.0263	1.23%
Mn 257.610†	25888.9	0.9569 mg/L	0.00642	0.9569 mg/L	0.00642	0.67%
Mo 202.031†	10894.4	0.9972 mg/L	0.00737	0.9972 mg/L	0.00737	0.74%
Na 589.592†	296454.8	49.93 mg/L	0.435	49.93 mg/L	0.435	0.87%
Na 330.237†	1450.1	51.40 mg/L	0.545	51.40 mg/L	0.545	1.06%
Ni 231.604†	2086.9	1.013 mg/L	0.0157	1.013 mg/L	0.0157	1.55%
Pb 220.353†	20519.1	2.099 mg/L	0.0034	2.099 mg/L	0.0034	0.16%
Sb 206.836†	2468.8	2.172 mg/L	0.0119	2.172 mg/L	0.0119	0.55%
Se 196.026†	3390.0	2.115 mg/L	0.0041	2.115 mg/L	0.0041	0.20%
Si 288.158†	2982.6	2.092 mg/L	0.0249	2.092 mg/L	0.0249	1.19%
Sn 189.927†	4886.5	0.9948 mg/L	0.00573	0.9948 mg/L	0.00573	0.58%
Sr 421.552†	669865.9	0.9867 mg/L	0.00760	0.9867 mg/L	0.00760	0.77%
Ti 334.903†	27018.1	1.031 mg/L	0.0077	1.031 mg/L	0.0077	0.75%
Tl 190.801†	2369.5	2.029 mg/L	0.0072	2.029 mg/L	0.0072	0.35%
V 292.402†	301647.5	1.023 mg/L	0.0024	1.023 mg/L	0.0024	0.23%
Zn 206.200†	1119.4	1.057 mg/L	0.0135	1.057 mg/L	0.0135	1.27%

Sequence No.: 36
 Sample ID: CB
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/24/2006 6:58:43 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	171.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2014293.7	116.0	%	0.25				0.21%
ScR 361.383	252126.3	121.1	%	0.79				0.65%
Ag 328.068†	11.8	0.00004	mg/L	0.000250	0.00004	mg/L	0.000250	663.48%
Al 308.215†	56.3	0.04140	mg/L	0.006957	0.04140	mg/L	0.006957	16.80%
As 188.979†	8.0	0.00764	mg/L	0.002156	0.00764	mg/L	0.002156	28.23%
B 249.677†	12.1	0.00412	mg/L	0.001826	0.00412	mg/L	0.001826	44.33%
Ba 233.527†	-4.5	-0.00134	mg/L	0.000640	-0.00134	mg/L	0.000640	47.64%
Be 313.042†	-120.1	-0.00019	mg/L	0.000023	-0.00019	mg/L	0.000023	11.61%
Ca 317.933†	-29.2	-0.00126	mg/L	0.000674	-0.00126	mg/L	0.000674	53.42%
Cd 228.802†	5.3	0.00015	mg/L	0.000196	0.00015	mg/L	0.000196	134.13%
Co 228.616†	11.8	0.00030	mg/L	0.000244	0.00030	mg/L	0.000244	81.87%
Cr 267.716†	8.9	0.00106	mg/L	0.000628	0.00106	mg/L	0.000628	59.46%
Cu 324.752†	-144.4	-0.00053	mg/L	0.000147	-0.00053	mg/L	0.000147	27.50%
Fe 273.955†	6.3	0.00681	mg/L	0.000880	0.00681	mg/L	0.000880	12.93%
K 766.490†	-204.6	-0.1323	mg/L	0.01853	-0.1323	mg/L	0.01853	14.01%
Mg 279.077†	25.2	0.01595	mg/L	0.001433	0.01595	mg/L	0.001433	8.99%
Mn 257.610†	4.1	0.00015	mg/L	0.000153	0.00015	mg/L	0.000153	101.74%
Mo 202.031†	3.6	0.00033	mg/L	0.000210	0.00033	mg/L	0.000210	63.90%
Na 589.592†	7.9	0.00133	mg/L	0.009543	0.00133	mg/L	0.009543	718.42%
Na 330.237†	6.7	0.2372	mg/L	0.58578	0.2372	mg/L	0.58578	246.95%
Ni 231.604†	-2.1	-0.00104	mg/L	0.001008	-0.00104	mg/L	0.001008	97.29%
Pb 220.353†	-4.9	-0.00049	mg/L	0.000132	-0.00049	mg/L	0.000132	26.79%
Sb 206.836†	-0.9	-0.00080	mg/L	0.004078	-0.00080	mg/L	0.004078	511.90%
Se 196.026†	11.0	0.00689	mg/L	0.001014	0.00689	mg/L	0.001014	14.73%
Si 288.158†	11.2	0.00783	mg/L	0.004051	0.00783	mg/L	0.004051	51.73%
Sn 189.927†	6.8	0.00137	mg/L	0.000700	0.00137	mg/L	0.000700	51.03%
Sr 421.552†	10.4	0.00002	mg/L	0.000047	0.00002	mg/L	0.000047	307.19%
Ti 334.903†	16.5	0.00063	mg/L	0.000718	0.00063	mg/L	0.000718	114.02%
Tl 190.801†	10.5	0.00897	mg/L	0.001226	0.00897	mg/L	0.001226	13.67%
V 292.402†	24.4	0.00009	mg/L	0.000181	0.00009	mg/L	0.000181	201.60%
Zn 206.200†	2.1	0.00200	mg/L	0.002260	0.00200	mg/L	0.002260	113.02%

Sequence No.: 37

Autosampler Location: 84

Sample ID: JS66 MBI TWC

Date Collected: 8/24/2006 7:05:06 PM

Analyst: BLW

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution: 1X

Sample Prep Vol:

Handwritten notes: JT82 MBI SUC
8.25

Nebulizer Parameters: JS66 MBI TWC

Analyte Back Pressure Flow
All 170.0 kPa 0.50 L/min

Mean Data: JS66 MBI TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2043882.4	117.7	%	0.77				0.65%
ScR 361.383	253239.7	121.6	%	0.42				0.35%
Ag 328.068†	10.3	0.0003	mg/L	0.000202	0.00003	mg/L	0.000202	610.43%
Al 308.215†	100.8	0.07409	mg/L	0.005074	0.07409	mg/L	0.005074	6.85%
As 188.979†	0.2	0.00013	mg/L	0.003588	0.00013	mg/L	0.003588	>999.9%
B 249.677†	13.2	0.00446	mg/L	0.000916	0.00446	mg/L	0.000916	20.53%
Ba 233.527†	-3.2	-0.00095	mg/L	0.001739	-0.00095	mg/L	0.001739	183.54%
Be 313.042†	-113.7	-0.00018	mg/L	0.000062	-0.00018	mg/L	0.000062	33.40%
Ca 317.933†	2694.2	0.1166	mg/L	0.00090	0.1166	mg/L	0.00090	0.78%
Cd 228.802†	-0.8	-0.00002	mg/L	0.000045	-0.00002	mg/L	0.000045	183.43%
Co 228.616†	5.0	0.00012	mg/L	0.000089	0.00012	mg/L	0.000089	74.01%
Cr 267.716†	7.3	0.00086	mg/L	0.000324	0.00086	mg/L	0.000324	37.59%
Cu 324.752†	-216.7	-0.00080	mg/L	0.000132	-0.00080	mg/L	0.000132	16.55%
Fe 273.955†	11.5	0.01233	mg/L	0.004097	0.01233	mg/L	0.004097	33.24%
K 766.490†	-179.5	-0.1160	mg/L	0.00457	-0.1160	mg/L	0.00457	3.94%
Mg 279.077†	48.1	0.03041	mg/L	0.005172	0.03041	mg/L	0.005172	17.00%
Mn 257.610†	3.8	0.00014	mg/L	0.000176	0.00014	mg/L	0.000176	126.49%
Mo 202.031†	1.1	0.00010	mg/L	0.000058	0.00010	mg/L	0.000058	56.05%
Na 589.592†	-39.2	-0.00661	mg/L	0.002713	-0.00661	mg/L	0.002713	41.06%
Na 330.237†	22.6	0.7951	mg/L	0.34937	0.7951	mg/L	0.34937	43.94%
Ni 231.604†	-3.4	-0.00163	mg/L	0.002499	-0.00163	mg/L	0.002499	153.23%
Pb 220.353†	-3.7	-0.00036	mg/L	0.000795	-0.00036	mg/L	0.000795	222.61%
Sb 206.836†	-0.1	-0.00003	mg/L	0.004798	-0.00003	mg/L	0.004798	>999.9%
Se 196.026†	15.0	0.00934	mg/L	0.002172	0.00934	mg/L	0.002172	23.24%
Si 288.158†	19.6	0.01374	mg/L	0.003698	0.01374	mg/L	0.003698	26.91%
Sn 189.927†	11.8	0.00241	mg/L	0.000313	0.00241	mg/L	0.000313	12.97%
Sr 421.552†	148.0	0.00022	mg/L	0.000078	0.00022	mg/L	0.000078	35.67%
Ti 334.903†	109.3	0.00417	mg/L	0.001553	0.00417	mg/L	0.001553	37.20%
Tl 190.801†	10.4	0.00895	mg/L	0.000123	0.00895	mg/L	0.000123	1.38%
V 292.402†	60.4	0.00021	mg/L	0.000016	0.00021	mg/L	0.000016	7.51%
Zn 206.200†	20.8	0.01964	mg/L	0.002549	0.01964	mg/L	0.002549	12.98%

Sequence No.: 38
 Sample ID: JS66 MB2 TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 85
 Date Collected: 8/24/2006 7:11:32 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS66 MB2 TWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS66 MB2 TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2044769.9		117.8 %	1.26				1.07%
ScR 361.383	255316.3		122.6 %	0.42				0.34%
Ag 328.068†	3.9	0.00001	mg/L	0.000086	0.00001	mg/L	0.000086	674.70%
Al 308.215†	64.3	0.04724	mg/L	0.005747	0.04724	mg/L	0.005747	12.17%
As 188.979†	5.3	0.00511	mg/L	0.001429	0.00511	mg/L	0.001429	27.96%
B 249.677†	2.1	0.00073	mg/L	0.000609	0.00073	mg/L	0.000609	83.83%
Ba 233.527†	-4.2	-0.00126	mg/L	0.000378	-0.00126	mg/L	0.000378	30.09%
Be 313.042†	-143.0	-0.00023	mg/L	0.000032	-0.00023	mg/L	0.000032	13.94%
Ca 317.933†	171.4	0.00741	mg/L	0.000996	0.00741	mg/L	0.000996	13.44%
Cd 228.802†	-2.8	-0.00009	mg/L	0.000013	-0.00009	mg/L	0.000013	14.08%
Co 228.616†	8.1	0.00020	mg/L	0.000143	0.00020	mg/L	0.000143	69.88%
Cr 267.716†	3.8	0.00045	mg/L	0.000577	0.00045	mg/L	0.000577	127.40%
Cu 324.752†	-172.2	-0.00064	mg/L	0.000212	-0.00064	mg/L	0.000212	33.45%
Fe 273.955†	9.6	0.01034	mg/L	0.002165	0.01034	mg/L	0.002165	20.95%
K 766.490†	-226.0	-0.1461	mg/L	0.01760	-0.1461	mg/L	0.01760	12.05%
Mg 279.077†	27.9	0.01762	mg/L	0.003925	0.01762	mg/L	0.003925	22.27%
Mn 257.610†	4.8	0.00018	mg/L	0.000117	0.00018	mg/L	0.000117	66.33%
Mo 202.031†	3.2	0.00030	mg/L	0.000196	0.00030	mg/L	0.000196	65.94%
Na 589.592†	2.1	0.00035	mg/L	0.005006	0.00035	mg/L	0.005006	>999.9%
Na 330.237†	13.1	0.4641	mg/L	0.09821	0.4641	mg/L	0.09821	21.16%
Ni 231.604†	-6.7	-0.00326	mg/L	0.000875	-0.00326	mg/L	0.000875	26.81%
Pb 220.353†	-11.3	-0.00114	mg/L	0.000410	-0.00114	mg/L	0.000410	35.96%
Sb 206.836†	1.8	0.00155	mg/L	0.000777	0.00155	mg/L	0.000777	50.06%
Se 196.026†	7.6	0.00477	mg/L	0.002358	0.00477	mg/L	0.002358	49.47%
Si 288.158†	22.3	0.01564	mg/L	0.003806	0.01564	mg/L	0.003806	24.33%
Sn 189.927†	5.7	0.00116	mg/L	0.001281	0.00116	mg/L	0.001281	110.60%
Sr 421.552†	27.0	0.00004	mg/L	0.000023	0.00004	mg/L	0.000023	58.57%
Ti 334.903†	2.0	0.00008	mg/L	0.000292	0.00008	mg/L	0.000292	377.57%
Tl 190.801†	7.0	0.00603	mg/L	0.001962	0.00603	mg/L	0.001962	32.54%
V 292.402†	30.0	0.00010	mg/L	0.000111	0.00010	mg/L	0.000111	106.11%
Zn 206.200†	4.2	0.00392	mg/L	0.000371	0.00392	mg/L	0.000371	9.47%

Sequence No.: 39
Sample ID: JS66 E TWC
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 86
Date Collected: 8/24/2006 7:17:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JS66 E TWC

Analyte Back Pressure Flow
All 170.0 kPa 0.50 L/min

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Mean Data: JS66 E TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	1562941.7		90.03 %	0.673				0.75%
ScR 361.383	220207.1		105.7 %	0.95				0.90%
Ag 328.068†	-877.4		-0.00307 mg/L	0.000266	-0.00307 mg/L	0.000266	8.66%	
Al 308.215†	75.4		0.05458 mg/L	0.013182	0.05458 mg/L	0.013182	24.15%	
As 188.979†	61.5		0.02951 mg/L	0.007534	0.02951 mg/L	0.007534	25.53%	
B 249.677†	31583.2		10.70 mg/L	0.128	10.70 mg/L	0.128	1.19%	
Ba 233.527†	9540.2		2.829 mg/L	0.0342	2.829 mg/L	0.0342	1.21%	
Be 313.042†	-36.9		-0.00010 mg/L	0.000065	-0.00010 mg/L	0.000065	62.16%	
Ca 317.933†	11764029.0		509.0 mg/L	4.31	509.0 mg/L	4.31	0.85%	
Cd 228.802†	-5.2		-0.00040 mg/L	0.000268	-0.00040 mg/L	0.000268	67.04%	
Co 228.616†	769.7		0.01829 mg/L	0.002126	0.01829 mg/L	0.002126	11.62%	
Cr 267.716†	683.2		0.01024 mg/L	0.000183	0.01024 mg/L	0.000183	1.79%	
Cu 324.752†	1469.1		0.00199 mg/L	0.000128	0.00199 mg/L	0.000128	6.46%	
Fe 273.955†	4842.9		5.212 mg/L	0.0680	5.212 mg/L	0.0680	1.30%	
K 766.490†	509060.6		329.0 mg/L	2.69	329.0 mg/L	2.69	0.82%	
Mg 279.077†	718460.2		454.0 mg/L	0.46	454.0 mg/L	0.46	0.10%	
Mn 257.610†	87474.9		3.221 mg/L	0.0439	3.221 mg/L	0.0439	1.36%	
Mo 202.031†	158.4		0.00375 mg/L	0.000604	0.00375 mg/L	0.000604	16.13%	
Na 589.592†	Saturated2							
Na 330.237†	72950.1		2583 mg/L	33.3	2583 mg/L	33.3	1.29%	
Ni 231.604†	222.9		0.1081 mg/L	0.00112	0.1081 mg/L	0.00112	1.04%	
Pb 220.353†	46.3		0.00490 mg/L	0.000761	0.00490 mg/L	0.000761	15.53%	
Sb 206.836†	14.1		0.01119 mg/L	0.003842	0.01119 mg/L	0.003842	34.33%	
Se 196.026†	-57.1		-0.03929 mg/L	0.004839	-0.03929 mg/L	0.004839	12.32%	
Si 288.158†	2673.5		1.874 mg/L	0.0155	1.874 mg/L	0.0155	0.83%	
Sn 189.927†	-75.3		0.06277 mg/L	0.001818	0.06277 mg/L	0.001818	2.90%	
Sr 421.552†	3336187.5		4.914 mg/L	0.0421	4.914 mg/L	0.0421	0.86%	
Ti 334.903†	4457.1		0.1702 mg/L	0.00123	0.1702 mg/L	0.00123	0.72%	
Tl 190.801†	-7.9		-0.00706 mg/L	0.001480	-0.00706 mg/L	0.001480	20.97%	
V 292.402†	8517.1		0.02966 mg/L	0.000283	0.02966 mg/L	0.000283	0.96%	
Zn 206.200†	-10.2		-0.00318 mg/L	0.003119	-0.00318 mg/L	0.003119	97.94%	

Sequence No.: 40
Sample ID: JS66 F TWC
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 87
Date Collected: 8/24/2006 7:24:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JS66 F TWC
Analyte Back Pressure Flow
All 170.0 kPa 0.50 L/min

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Mean Data: JS66 F TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	1526712.5		87.95 %	0.152				0.17%
ScR 361.383	212036.4		101.8 %	0.94				0.92%
Ag 328.068†	-3011.5	-0.00906	mg/L	0.000151	-0.00906	mg/L	0.000151	1.67%
Al 308.215†	1311.5	0.9633	mg/L	0.01459	0.9633	mg/L	0.01459	1.51%
As 188.979†	685.2	0.5766	mg/L	0.15287	0.5766	mg/L	0.15287	26.51%
B 249.677†	17754.8	6.015	mg/L	0.0191	6.015	mg/L	0.0191	0.32%
Ba 233.527†	4985.7	1.476	mg/L	0.0145	1.476	mg/L	0.0145	0.98%
Be 313.042†	346.2	0.00052	mg/L	0.000048	0.00052	mg/L	0.000048	9.30%
Ca 317.933†	32403078.6	1402	mg/L	17.7	1402	mg/L	17.7	1.26%
Cd 228.802†	32.2	-0.00038	mg/L	0.000249	-0.00038	mg/L	0.000249	65.98%
Co 228.616†	386.5	0.00827	mg/L	0.002353	0.00827	mg/L	0.002353	28.44%
Cr 267.716†	833.6	0.05886	mg/L	0.000591	0.05886	mg/L	0.000591	1.00%
Cu 324.752†	706.2	0.00383	mg/L	0.000184	0.00383	mg/L	0.000184	4.80%
Fe 273.955†	34114.4	36.71	mg/L	0.331	36.71	mg/L	0.331	0.90%
K 766.490†	898667.5	580.8	mg/L	0.79	580.8	mg/L	0.79	0.14%
Mg 279.077†	409414.9	258.7	mg/L	1.56	258.7	mg/L	1.56	0.60%
Mn 257.610†	177876.3	6.560	mg/L	0.0437	6.560	mg/L	0.0437	0.67%
Mo 202.031†	155.0	0.00808	mg/L	0.001239	0.00808	mg/L	0.001239	15.34%
Na 589.592†	Saturated2							
Na 330.237†	77613.0	2740	mg/L	16.1	2740	mg/L	16.1	0.59%
Ni 231.604†	204.0	0.09898	mg/L	0.002723	0.09898	mg/L	0.002723	2.75%
Pb 220.353†	31.8	0.00362	mg/L	0.001572	0.00362	mg/L	0.001572	43.42%
Sb 206.836†	88.5	0.07615	mg/L	0.016353	0.07615	mg/L	0.016353	21.47%
Se 196.026†	-82.6	-0.05904	mg/L	0.018735	-0.05904	mg/L	0.018735	31.73%
Si 288.158†	3577.5	2.507	mg/L	0.0261	2.507	mg/L	0.0261	1.04%
Sn 189.927†	-141.7	0.2132	mg/L	0.00214	0.2132	mg/L	0.00214	1.00%
Sr 421.552†	5996350.6	8.832	mg/L	0.1062	8.832	mg/L	0.1062	1.20%
Ti 334.903†	3937.1	0.1503	mg/L	0.00088	0.1503	mg/L	0.00088	0.58%
Tl 190.801†	13.1	0.01104	mg/L	0.002001	0.01104	mg/L	0.002001	18.13%
V 292.402†	7638.6	0.02734	mg/L	0.000187	0.02734	mg/L	0.000187	0.68%
Zn 206.200†	-17.5	0.00066	mg/L	0.003717	0.00066	mg/L	0.003717	562.67%

Sequence No.: 41
 Sample ID: JS66 G TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 88
 Date Collected: 8/24/2006 7:31:53 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS66 G TWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS66 G TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1828753.1		105.3 %	0.45				0.42%
ScR 361.383	236489.1		113.5 %	0.52				0.45%
Ag 328.068†	-7.4		0.00011 mg/L	0.000071	0.00011 mg/L	0.000071		63.94%
Al 308.215†	249.9		0.1836 mg/L	0.02258	0.1836 mg/L	0.02258		12.30%
As 188.979†	167.6		0.1594 mg/L	0.00142	0.1594 mg/L	0.00142		0.89%
B 249.677†	1822.5		0.6174 mg/L	0.00595	0.6174 mg/L	0.00595		0.96%
Ba 233.527†	307.8		0.09099 mg/L	0.000981	0.09099 mg/L	0.000981		1.08%
Be 313.042†	-109.8		-0.00018 mg/L	0.000030	-0.00018 mg/L	0.000030		16.53%
Ca 317.933†	362512.1		15.68 mg/L	0.043	15.68 mg/L	0.043		0.28%
Cd 228.802†	10.2		0.00003 mg/L	0.000110	0.00003 mg/L	0.000110		321.47%
Co 228.616†	65.2		0.00152 mg/L	0.000350	0.00152 mg/L	0.000350		23.03%
Cr 267.716†	28.0		0.00216 mg/L	0.000282	0.00216 mg/L	0.000282		13.07%
Cu 324.752†	1432.7		0.00560 mg/L	0.000121	0.00560 mg/L	0.000121		2.17%
Fe 273.955†	3810.9		4.101 mg/L	0.0116	4.101 mg/L	0.0116		0.28%
K 766.490†	36453.5		23.56 mg/L	0.186	23.56 mg/L	0.186		0.79%
Mg 279.077†	14250.5		9.003 mg/L	0.0212	9.003 mg/L	0.0212		0.24%
Mn 257.610†	6178.5		0.2280 mg/L	0.00079	0.2280 mg/L	0.00079		0.35%
Mo 202.031†	16.4		0.00129 mg/L	0.000253	0.00129 mg/L	0.000253		19.63%
Na 589.592†	2605334.5		438.8 mg/L	0.22	438.8 mg/L	0.22		0.05%
Na 330.237†	13044.4		462.5 mg/L	0.91	462.5 mg/L	0.91		0.20%
Ni 231.604†	21.8		0.01058 mg/L	0.001040	0.01058 mg/L	0.001040		9.84%
Pb 220.353†	11.6		0.00122 mg/L	0.000403	0.00122 mg/L	0.000403		32.91%
Sb 206.836†	63.5		0.05581 mg/L	0.000399	0.05581 mg/L	0.000399		0.71%
Se 196.026†	-6.7		-0.00443 mg/L	0.004143	-0.00443 mg/L	0.004143		93.55%
Si 288.158†	3244.9		2.274 mg/L	0.0071	2.274 mg/L	0.0071		0.31%
Sn 189.927†	-9.1		0.00080 mg/L	0.001347	0.00080 mg/L	0.001347		167.62%
Sr 421.552†	156541.2		0.2306 mg/L	0.00082	0.2306 mg/L	0.00082		0.35%
Ti 334.903†	123.7		0.00472 mg/L	0.000561	0.00472 mg/L	0.000561		11.89%
Tl 190.801†	2.1		0.00178 mg/L	0.003042	0.00178 mg/L	0.003042		171.33%
V 292.402†	1040.8		0.00356 mg/L	0.000021	0.00356 mg/L	0.000021		0.60%
Zn 206.200†	88.1		0.08333 mg/L	0.000967	0.08333 mg/L	0.000967		1.16%

Sequence No.: 42
 Sample ID: JS66 H TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 89
 Date Collected: 8/24/2006 7:38:39 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS66 H TWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

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Mean Data: JS66 H TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1579097.7		90.96 %	0.524				0.58%
ScR 361.383	214080.6		102.8 %	1.23				1.20%
Ag 328.068†	-26993.1		-0.01288 mg/L	0.001104	-0.01288 mg/L	0.001104		8.58%
Al 308.215†	568.1		0.4177 mg/L	0.00399	0.4177 mg/L	0.00399		0.96%
As 188.979†	9465.3		9.039 mg/L	0.0680	9.039 mg/L	0.0680		0.75%
B 249.677†	9679.9		3.283 mg/L	0.0102	3.283 mg/L	0.0102		0.31%
Ba 233.527†	713.1		0.05475 mg/L	0.003431	0.05475 mg/L	0.003431		6.27%
Be 313.042†	109.8		0.00019 mg/L	0.000020	0.00019 mg/L	0.000020		10.04%
Ca 317.933†	6455629.4		279.3 mg/L	1.43	279.3 mg/L	1.43		0.51%
Cd 228.802†	901.4		-0.00756 mg/L	0.000171	-0.00756 mg/L	0.000171		2.27%
Co 228.616†	2810.2		0.01968 mg/L	0.000824	0.01968 mg/L	0.000824		4.19%
Cr 267.716†	8257.2		1.089 mg/L	0.0149	1.089 mg/L	0.0149		1.37%
Cu 324.752†	-51449.9		0.01510 mg/L	0.000186	0.01510 mg/L	0.000186		1.23%
Fe 273.955†	2020961.2		2175 mg/L	1.2	2175 mg/L	1.2		0.06%
K 766.490†	96933.8		62.64 mg/L	0.549	62.64 mg/L	0.549		0.88%
Mg 279.077†	160333.5		99.72 mg/L	0.155	99.72 mg/L	0.155		0.16%
Mn 257.610†	2987271.7		110.4 mg/L	0.35	110.4 mg/L	0.35		0.32%
Mo 202.031†	64.1		0.00347 mg/L	0.001137	0.00347 mg/L	0.001137		32.74%
Na 589.592†	Saturated2							
Na 330.237†	75254.7		2666 mg/L	7.7	2666 mg/L	7.7		0.29%
Ni 231.604†	3664.0		1.778 mg/L	0.0245	1.778 mg/L	0.0245		1.38%
Pb 220.353†	739.5		0.07771 mg/L	0.002420	0.07771 mg/L	0.002420		3.11%
Sb 206.836†	1760.7		1.533 mg/L	0.0180	1.533 mg/L	0.0180		1.17%
Se 196.026†	-418.5		-0.3865 mg/L	0.02634	-0.3865 mg/L	0.02634		6.82%
Si 288.158†	2913.8		2.044 mg/L	0.0309	2.044 mg/L	0.0309		1.51%
Sn 189.927†	-74.9		0.03447 mg/L	0.001869	0.03447 mg/L	0.001869		5.42%
Sr 421.552†	486798.9		0.7170 mg/L	0.00401	0.7170 mg/L	0.00401		0.56%
Ti 334.903†	215.5		0.00802 mg/L	0.000216	0.00802 mg/L	0.000216		2.69%
Tl 190.801†	-286.9		-0.2467 mg/L	0.01648	-0.2467 mg/L	0.01648		6.68%
V 292.402†	-3208.6		0.01260 mg/L	0.000208	0.01260 mg/L	0.000208		1.65%
Zn 206.200†	643.3		0.5532 mg/L	0.01306	0.5532 mg/L	0.01306		2.36%

Sequence No.: 43
 Sample ID: JT38 A SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 90
 Date Collected: 8/24/2006 7:44:30 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT38 A SWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JT38 A SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	1951274.3		112.4 %	0.48				0.42%
ScR 361.383	244705.2		117.5 %	0.85				0.72%
Ag 328.068†	-1372.0		0.00047 mg/L	0.000121	0.00093 mg/L		0.000241	25.96%
Al 308.215†	121853.7		89.57 mg/L	0.396	179.1 mg/L		0.79	0.44%
As 188.979†	90.9		0.06333 mg/L	0.001105	0.1267 mg/L		0.00221	1.75%
B 249.677†	288.5		0.09642 mg/L	0.000363	0.1928 mg/L		0.00073	0.38%
Ba 233.527†	1442.5		0.4191 mg/L	0.00102	0.8382 mg/L		0.00205	0.24%
Be 313.042†	925.9		0.00103 mg/L	0.000060	0.00205 mg/L		0.000119	5.80%
Ca 317.933†	1076409.9		46.57 mg/L	0.289	93.15 mg/L		0.577	0.62%
Cd 228.802†	66.0		0.00062 mg/L	0.000082	0.00124 mg/L		0.000164	13.26%
Co 228.616†	1829.8		0.03616 mg/L	0.000493	0.07232 mg/L		0.000986	1.36%
Cr 267.716†	1189.8		0.1439 mg/L	0.00032	0.2879 mg/L		0.00064	0.22%
Cu 324.752†	95751.7		0.3635 mg/L	0.00057	0.7270 mg/L		0.00114	0.16%
Fe 273.955†	110546.1		119.0 mg/L	1.02	237.9 mg/L		2.04	0.86%
K 766.490†	14434.8		9.329 mg/L	0.0504	18.66 mg/L		0.101	0.54%
Mg 279.077†	58803.6		37.07 mg/L	0.206	74.15 mg/L		0.412	0.56%
Mn 257.610†	39029.6		1.441 mg/L	0.0093	2.881 mg/L		0.0187	0.65%
Mo 202.031†	56.3		0.00626 mg/L	0.000306	0.01251 mg/L		0.000612	4.89%
Na 589.592†	228087.2		38.42 mg/L	0.244	76.83 mg/L		0.488	0.64%
Na 330.237†	1083.4		39.10 mg/L	0.381	78.21 mg/L		0.762	0.97%
Ni 231.604†	228.1		0.1106 mg/L	0.00196	0.2212 mg/L		0.00392	1.77%
Pb 220.353†	2102.8		0.2322 mg/L	0.00144	0.4644 mg/L		0.00289	0.62%
Sb 206.836†	33.6		0.03268 mg/L	0.001271	0.06536 mg/L		0.002543	3.89%
Se 196.026†	-48.6		-0.03196 mg/L	0.005408	-0.06392 mg/L		0.010817	16.92%
Si 288.158†	6122.9		4.291 mg/L	0.0683	8.583 mg/L		0.1366	1.59%
Sn 189.927†	13.7		0.00913 mg/L	0.002015	0.01827 mg/L		0.004031	22.07%
Sr 421.552†	220433.7		0.3247 mg/L	0.00161	0.6494 mg/L		0.00323	0.50%
Ti 334.903†	129537.1		4.947 mg/L	0.0247	9.894 mg/L		0.0494	0.50%
Tl 190.801†	-7.7		-0.01185 mg/L	0.005054	-0.02369 mg/L		0.010109	42.67%
V 292.402†	89721.8		0.3010 mg/L	0.00143	0.6019 mg/L		0.00286	0.47%
Zn 206.200†	601.8		0.5661 mg/L	0.00277	1.132 mg/L		0.0055	0.49%

Sequence No.: 44
 Sample ID: JT30 A SWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 91
 Date Collected: 8/24/2006 7:50:45 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JT30 A SWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JT30 A SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1985953.0	114.4 %		0.62			0.54%
ScR 361.383	247880.6	119.0 %		0.47			0.39%
Ag 328.068†	-2055.9	-0.00101 mg/L		0.000142	-0.00201 mg/L	0.000283	14.06%
Al 308.215†	107059.5	78.69 mg/L		0.119	157.4 mg/L	0.24	0.15%
As 188.979†	63.9	0.03022 mg/L		0.001623	0.06045 mg/L	0.003246	5.37%
B 249.677†	96.1	0.02994 mg/L		0.001122	0.05988 mg/L	0.002244	3.75%
Ba 233.527†	853.5	0.2433 mg/L		0.00101	0.4867 mg/L	0.00202	0.42%
Be 313.042†	1005.2	0.00082 mg/L		0.000061	0.00164 mg/L	0.000121	7.40%
Ca 317.933†	963144.7	41.67 mg/L		0.057	83.35 mg/L	0.113	0.14%
Cd 228.802†	39.2	-0.00028 mg/L		0.000079	-0.00055 mg/L	0.000158	28.46%
Co 228.616†	2245.0	0.04024 mg/L		0.000436	0.08047 mg/L	0.000871	1.08%
Cr 267.716†	1001.2	0.1252 mg/L		0.00069	0.2504 mg/L	0.00138	0.55%
Cu 324.752†	32599.4	0.1310 mg/L		0.00019	0.2620 mg/L	0.00038	0.15%
Fe 273.955†	123413.5	132.8 mg/L		0.23	265.6 mg/L	0.46	0.17%
K 766.490†	6338.3	4.096 mg/L		0.0071	8.192 mg/L	0.0143	0.17%
Mg 279.077†	31332.5	19.70 mg/L		0.041	39.41 mg/L	0.082	0.21%
Mn 257.610†	30902.9	1.141 mg/L		0.0016	2.281 mg/L	0.0032	0.14%
Mo 202.031†	32.6	0.00426 mg/L		0.000118	0.00852 mg/L	0.000236	2.77%
Na 589.592†	46823.4	7.886 mg/L		0.0103	15.77 mg/L	0.021	0.13%
Na 330.237†	169.9	7.690 mg/L		0.2679	15.38 mg/L	0.536	3.48%
Ni 231.604†	139.7	0.06775 mg/L		0.001769	0.1355 mg/L	0.00354	2.61%
Pb 220.353†	16.5	0.01698 mg/L		0.000127	0.03397 mg/L	0.000255	0.75%
Sb 206.836†	16.5	0.02157 mg/L		0.001220	0.04314 mg/L	0.002439	5.65%
Se 196.026†	-47.2	-0.03076 mg/L		0.006787	-0.06151 mg/L	0.013574	22.07%
Si 288.158†	2640.0	1.850 mg/L		0.0132	3.701 mg/L	0.0264	0.71%
Sn 189.927†	-32.9	-0.00144 mg/L		0.000175	-0.00289 mg/L	0.000350	12.12%
Sr 421.552†	255701.6	0.3766 mg/L		0.00057	0.7533 mg/L	0.00114	0.15%
Tl 334.903†	219126.0	8.368 mg/L		0.0110	16.74 mg/L	0.022	0.13%
Tl 190.801†	-1.4	-0.00994 mg/L		0.003255	-0.01988 mg/L	0.006511	32.74%
V 292.402†	153006.6	0.5122 mg/L		0.00191	1.024 mg/L	0.0038	0.37%
Zn 206.200†	264.0	0.2464 mg/L		0.00339	0.4929 mg/L	0.00678	1.37%

Sequence No.: 45

Autosampler Location: 92

Sample ID: JT30 MBSPK SWC

Date Collected: 8/24/2006 7:57:00 PM

Analyst: BLW

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution: 2X

Sample Prep Vol:

Nebulizer Parameters: JT30 MBSPK SWC

Analyte	Back Pressure	Flow
All	170.0 kPa	0.50 L/min

Mean Data: JT30 MBSPK SWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	1981709.8		114.2 %	0.65				0.57%
ScR 361.383	244978.6		117.6 %	0.74				0.63%
Ag 328.068†	161404.4		0.5105 mg/L	0.00137	1.021 mg/L		0.0027	0.27%
Al 308.215†	2829.6		2.071 mg/L	0.0202	4.143 mg/L		0.0404	0.98%
As 188.979†	2258.2		2.159 mg/L	0.0209	4.318 mg/L		0.0418	0.97%
B 249.677†	50.5		0.01801 mg/L	0.003061	0.03602 mg/L		0.006122	17.00%
Ba 233.527†	6497.4		1.927 mg/L	0.0138	3.853 mg/L		0.0275	0.71%
Be 313.042†	322778.3		0.5219 mg/L	0.00098	1.044 mg/L		0.0020	0.19%
Ca 317.933†	244652.5		10.59 mg/L	0.019	21.17 mg/L		0.039	0.18%
Cd 228.802†	17627.6		0.5164 mg/L	0.00318	1.033 mg/L		0.0064	0.62%
Co 228.616†	19937.9		0.5016 mg/L	0.00398	1.003 mg/L		0.0080	0.79%
Cr 267.716†	4201.4		0.4958 mg/L	0.00308	0.9915 mg/L		0.00616	0.62%
Cu 324.752†	136970.4		0.5061 mg/L	0.00120	1.012 mg/L		0.0024	0.24%
Fe 273.955†	1981.1		2.131 mg/L	0.0162	4.261 mg/L		0.0324	0.76%
K 766.490†	16268.1		10.51 mg/L	0.047	21.03 mg/L		0.095	0.45%
Mg 279.077†	17129.1		10.82 mg/L	0.018	21.65 mg/L		0.037	0.17%
Mn 257.610†	13372.0		0.4943 mg/L	0.00197	0.9886 mg/L		0.00393	0.40%
Mo 202.031†	20.2		0.00164 mg/L	0.000155	0.00328 mg/L		0.000311	9.48%
Na 589.592†	64610.5		10.88 mg/L	0.037	21.76 mg/L		0.075	0.34%
Na 330.237†	329.1		11.45 mg/L	0.825	22.90 mg/L		1.650	7.21%
Ni 231.604†	1029.8		0.4994 mg/L	0.00229	0.9987 mg/L		0.00458	0.46%
Pb 220.353†	20682.6		2.115 mg/L	0.0030	4.229 mg/L		0.0060	0.14%
Sb 206.836†	11.3		0.00382 mg/L	0.003310	0.00763 mg/L		0.006620	86.71%
Se 196.026†	3530.7		2.203 mg/L	0.0097	4.406 mg/L		0.0194	0.44%
Si 288.158†	22.8		0.01703 mg/L	0.000259	0.03407 mg/L		0.000519	1.52%
Sn 189.927†	-18.3		-0.00199 mg/L	0.000716	-0.00397 mg/L		0.001432	36.03%
Sr 421.552†	341966.8		0.5037 mg/L	0.00116	1.007 mg/L		0.0023	0.23%
Ti 334.903†	56.4		0.00205 mg/L	0.000075	0.00410 mg/L		0.000150	3.66%
Tl 190.801†	2458.8		2.106 mg/L	0.0165	4.212 mg/L		0.0330	0.78%
V 292.402†	155887.3		0.5284 mg/L	0.00155	1.057 mg/L		0.0031	0.29%
Zn 206.200†	546.3		0.5161 mg/L	0.00371	1.032 mg/L		0.0074	0.72%

Sequence No.: 46
 Sample ID: JS66 MB2SPK TWC
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 93
 Date Collected: 8/24/2006 8:03:13 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: JS66 MB2SPK TWC

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: JS66 MB2SPK TWC

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1987511.9		114.5 %	0.50				0.44%
ScR 361.383	248933.4		119.5 %	0.83				0.69%
Ag 328.068†	161950.0		0.5123 mg/L	0.00096	0.5123 mg/L	0.00096		0.19%
Al 308.215†	2835.0		2.075 mg/L	0.0144	2.075 mg/L	0.0144		0.70%
As 188.979†	2256.5		2.157 mg/L	0.0143	2.157 mg/L	0.0143		0.66%
B 249.677†	37.2		0.01353 mg/L	0.002091	0.01353 mg/L	0.002091		15.46%
Ba 233.527†	6679.7		1.981 mg/L	0.0179	1.981 mg/L	0.0179		0.90%
Be 313.042†	333435.1		0.5391 mg/L	0.00269	0.5391 mg/L	0.00269		0.50%
Ca 317.933†	251350.1		10.88 mg/L	0.063	10.88 mg/L	0.063		0.58%
Cd 228.802†	17582.4		0.5151 mg/L	0.00203	0.5151 mg/L	0.00203		0.39%
Co 228.616†	20131.9		0.5065 mg/L	0.00179	0.5065 mg/L	0.00179		0.35%
Cr 267.716†	4314.0		0.5091 mg/L	0.00517	0.5091 mg/L	0.00517		1.02%
Cu 324.752†	139628.3		0.5159 mg/L	0.00100	0.5159 mg/L	0.00100		0.19%
Fe 273.955†	2043.2		2.197 mg/L	0.0156	2.197 mg/L	0.0156		0.71%
K 766.490†	16349.2		10.57 mg/L	0.069	10.57 mg/L	0.069		0.65%
Mg 279.077†	17707.3		11.19 mg/L	0.051	11.19 mg/L	0.051		0.45%
Mn 257.610†	13781.2		0.5094 mg/L	0.00307	0.5094 mg/L	0.00307		0.60%
Mo 202.031†	19.2		0.00154 mg/L	0.000399	0.00154 mg/L	0.000399		25.94%
Na 589.592†	63856.7		10.76 mg/L	0.060	10.76 mg/L	0.060		0.56%
Na 330.237†	339.0		11.79 mg/L	0.531	11.79 mg/L	0.531		4.50%
Ni 231.604†	1058.6		0.5133 mg/L	0.00499	0.5133 mg/L	0.00499		0.97%
Pb 220.353†	20981.9		2.145 mg/L	0.0054	2.145 mg/L	0.0054		0.25%
Sb 206.836†	10.8		0.00319 mg/L	0.001324	0.00319 mg/L	0.001324		41.49%
Se 196.026†	3485.3		2.175 mg/L	0.0150	2.175 mg/L	0.0150		0.69%
Si 288.158†	25.8		0.01916 mg/L	0.006197	0.01916 mg/L	0.006197		32.34%
Sn 189.927†	-18.9		-0.00208 mg/L	0.000384	-0.00208 mg/L	0.000384		18.45%
Sr 421.552†	345992.2		0.5096 mg/L	0.00301	0.5096 mg/L	0.00301		0.59%
Ti 334.903†	37.4		0.00132 mg/L	0.000795	0.00132 mg/L	0.000795		60.33%
Tl 190.801†	2457.4		2.105 mg/L	0.0081	2.105 mg/L	0.0081		0.39%
V 292.402†	158897.0		0.5386 mg/L	0.00146	0.5386 mg/L	0.00146		0.27%
Zn 206.200†	572.3		0.5408 mg/L	0.00462	0.5408 mg/L	0.00462		0.85%

Sequence No.: 47
 Sample ID: CV
 Analyst: BLW
 Initial Sample Wt: 9
 Dilution: 1X

Autosampler Location: 7
 Date Collected: 8/24/2006 8:09:28 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1947754.5	112.2 %		0.80			0.72%
ScR 361.383	245329.8	117.8 %		0.51			0.43%
Ag 328.068†	316129.8	0.9997 mg/L		0.00227	0.9997 mg/L	0.00227	0.23%
Al 308.215†	2770.3	1.999 mg/L		0.0086	1.999 mg/L	0.0086	0.43%
As 188.979†	2196.9	2.097 mg/L		0.0151	2.097 mg/L	0.0151	0.72%
B 249.677†	2992.5	1.017 mg/L		0.0051	1.017 mg/L	0.0051	0.50%
Ba 233.527†	3335.7	0.9888 mg/L		0.00287	0.9888 mg/L	0.00287	0.29%
Be 313.042†	634334.9	1.026 mg/L		0.0013	1.026 mg/L	0.0013	0.13%
Ca 317.933†	49661.7	2.149 mg/L		0.0029	2.149 mg/L	0.0029	0.14%
Cd 228.802†	35246.0	1.036 mg/L		0.0020	1.036 mg/L	0.0020	0.19%
Co 228.616†	40196.9	1.011 mg/L		0.0030	1.011 mg/L	0.0030	0.29%
Cr 267.716†	8260.6	0.9773 mg/L		0.00251	0.9773 mg/L	0.00251	0.26%
Cu 324.752†	281846.2	1.040 mg/L		0.0024	1.040 mg/L	0.0024	0.23%
Fe 273.955†	1975.9	2.124 mg/L		0.0028	2.124 mg/L	0.0028	0.13%
K 766.490†	30949.4	20.00 mg/L		0.093	20.00 mg/L	0.093	0.46%
Mg 279.077†	3413.8	2.161 mg/L		0.0069	2.161 mg/L	0.0069	0.32%
Mn 257.610†	26327.0	0.9731 mg/L		0.00081	0.9731 mg/L	0.00081	0.08%
Mo 202.031†	10947.7	1.002 mg/L		0.0065	1.002 mg/L	0.0065	0.64%
Na 589.592†	297109.9	50.04 mg/L		0.098	50.04 mg/L	0.098	0.20%
Na 330.237†	1430.0	50.68 mg/L		0.111	50.68 mg/L	0.111	0.22%
Ni 231.604†	2132.8	1.035 mg/L		0.0021	1.035 mg/L	0.0021	0.21%
Pb 220.353†	20399.8	2.087 mg/L		0.0148	2.087 mg/L	0.0148	0.71%
Sb 206.836†	2482.6	2.184 mg/L		0.0143	2.184 mg/L	0.0143	0.66%
Se 196.026†	3409.4	2.127 mg/L		0.0142	2.127 mg/L	0.0142	0.67%
Si 288.158†	2957.8	2.075 mg/L		0.0088	2.075 mg/L	0.0088	0.42%
Sn 189.927†	4914.9	1.001 mg/L		0.0090	1.001 mg/L	0.0090	0.90%
Sr 421.552†	670727.3	0.9879 mg/L		0.00176	0.9879 mg/L	0.00176	0.18%
Ti 334.903†	26973.5	1.029 mg/L		0.0010	1.029 mg/L	0.0010	0.10%
Tl 190.801†	2374.4	2.033 mg/L		0.0164	2.033 mg/L	0.0164	0.81%
V 292.402†	301622.2	1.023 mg/L		0.0031	1.023 mg/L	0.0031	0.30%
Zn 206.200†	1152.0	1.088 mg/L		0.0049	1.088 mg/L	0.0049	0.45%

Sequence No.: 48
 Sample ID: CB 9
 Analyst: BLW
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 1
 Date Collected: 8/24/2006 8:15:42 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 170.0 kPa 0.50 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1989835.2		114.6 %	1.17				1.02%
ScR 361.383	247519.1		118.8 %	1.18				1.00%
Ag 328.068†	9.4	0.00003	mg/L	0.000114	0.00003	mg/L	0.000114	382.33%
Al 308.215†	61.1	0.04490	mg/L	0.008144	0.04490	mg/L	0.008144	18.14%
As 188.979†	6.1	0.00582	mg/L	0.003689	0.00582	mg/L	0.003689	63.39%
B 249.677†	54.6	0.01851	mg/L	0.001318	0.01851	mg/L	0.001318	7.12%
Ba 233.527†	-5.0	-0.00147	mg/L	0.000322	-0.00147	mg/L	0.000322	21.84%
Be 313.042†	-102.9	-0.00017	mg/L	0.000005	-0.00017	mg/L	0.000005	3.00%
Ca 317.933†	8.8	0.00038	mg/L	0.002478	0.00038	mg/L	0.002478	651.03%
Cd 228.802†	4.5	0.00012	mg/L	0.000060	0.00012	mg/L	0.000060	48.21%
Co 228.616†	10.4	0.00026	mg/L	0.000022	0.00026	mg/L	0.000022	8.46%
Cr 267.716†	7.4	0.00087	mg/L	0.000907	0.00087	mg/L	0.000907	104.06%
Cu 324.752†	-141.8	-0.00052	mg/L	0.000181	-0.00052	mg/L	0.000181	34.50%
Fe 273.955†	4.8	0.00519	mg/L	0.000778	0.00519	mg/L	0.000778	14.98%
K 766.490†	97.9	0.06330	mg/L	0.025738	0.06330	mg/L	0.025738	40.66%
Mg 279.077†	20.7	0.01307	mg/L	0.011399	0.01307	mg/L	0.011399	87.21%
Mn 257.610†	10.8	0.00040	mg/L	0.000094	0.00040	mg/L	0.000094	23.77%
Mo 202.031†	4.4	0.00040	mg/L	0.000085	0.00040	mg/L	0.000085	21.07%
Na 589.592†	1721.7	0.2900	mg/L	0.00536	0.2900	mg/L	0.00536	1.85%
Na 330.237†	7.5	0.2666	mg/L	0.24388	0.2666	mg/L	0.24388	91.49%
Ni 231.604†	-3.0	-0.00148	mg/L	0.001365	-0.00148	mg/L	0.001365	92.40%
Pb 220.353†	-8.0	-0.00081	mg/L	0.000471	-0.00081	mg/L	0.000471	58.42%
Sb 206.836†	-1.2	-0.00104	mg/L	0.002551	-0.00104	mg/L	0.002551	245.66%
Se 196.026†	10.8	0.00671	mg/L	0.005704	0.00671	mg/L	0.005704	85.00%
Si 288.158†	17.8	0.01248	mg/L	0.005791	0.01248	mg/L	0.005791	46.41%
Sn 189.927†	9.0	0.00182	mg/L	0.001124	0.00182	mg/L	0.001124	61.89%
Sr 421.552†	21.2	0.00003	mg/L	0.000080	0.00003	mg/L	0.000080	254.90%
Ti 334.903†	26.0	0.00099	mg/L	0.000708	0.00099	mg/L	0.000708	71.34%
Tl 190.801†	12.1	0.01039	mg/L	0.001561	0.01039	mg/L	0.001561	15.03%
V 292.402†	16.2	0.00006	mg/L	0.000179	0.00006	mg/L	0.000179	295.67%
Zn 206.200†	1.2	0.00111	mg/L	0.001086	0.00111	mg/L	0.001086	97.83%

end package

Metals Prep Logs

**prepared
for**

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

**prepared
by**

Analytical Resources, Inc.

Total Solids

Oven in:

Analyst: DM Date: 8-22-06 Time: 1430 Temp: 102°C

Oven out:

Analyst: DM Date: 8-23-06 Time: 0750 Temp: 101°C

ARI Sample ID	Tare Weight (g)	Tare + Sample Wet (g)	Tare + Sample Dry (g)	Comments
JT38 A	1.069	10.705	8.090	
" B	1.023	10.284	7.918	
" C	0.990	10.259	7.869	
" D	0.949	10.631	8.065	
" E	0.957	10.284	8.703	
JT82 A	1.023	10.446	7.269	
" B	0.995	10.349	7.222	
" C	1.040	10.445	6.704	
" D	0.962	10.602	7.978	
" E	1.015	10.255	8.222	
" F	0.985	10.056	8.069	
" G	1.005	10.296	8.549	
" H	0.988	10.672	8.030	
" I	1.049	10.935	7.850	
8-22-06 DM				

Digestion Log

Analyst: DM
 Matrix: Soil

Date: 8-22-06
 Block Temp: 95°C

ARI Sample ID	Btl #	pH<2	Prep Code: <u>SNC</u>		Prep Code:		Comments
			Initial Wt (g) Vol (mL)	Final Vol (mL)	Initial Wt (g) Vol (mL)	Final Vol (mL)	
JT38 A	1	—	1.034	50.0			
" B	1	—	1.011				
" C	1	—	1.048				
" D	1	—	1.016				
" E	1	—	1.067				
" MB	—	—	—				
" MBSPK	—	—	—				
JT82 A	1	—	1.066				
" ADUP	1	—	1.068				
" ASPK	1	—	1.071				
" B	1	—	1.030				
" C	1	—	1.013				
" D	1	—	1.033				
" E	1	—	1.018				
" F	1	—	1.073				
" G	1	—	1.009				
" H	1	—	1.030				
" I	1	—	1.037				
" MBI	—	—	—	↓			
" MBSPK	—	—	—	50.0			
8-22-06 DM							

Chemical/Reagent ID:

HNO₃: MP1011 | I2854

HCl: I2854

H₂O₂: I2928

**General Chemistry Analysis
QC Summary Data**

**prepared
for**

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

**prepared
by**

Analytical Resources, Inc.

METHOD BLANK RESULTS-CONVENTIONALS
JT82-Anchor Environmental



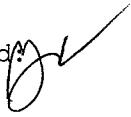
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	08/21/06	Percent	< 0.01 U
	08/21/06		< 0.01 U
Total Organic Carbon	08/23/06	Percent	< 0.020 U
	08/24/06		< 0.020 U

LAB CONTROL RESULTS-CONVENTIONALS
JT82-Anchor Environmental



Matrix: Sediment
Data Release Authorized: 
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	08/23/06	Percent	0.493	0.500	98.6%
	08/24/06		0.509	0.500	101.8%

STANDARD REFERENCE RESULTS-CONVENTIONALS
JT82-Anchor Environmental



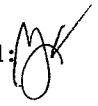
Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon	08/23/06	Percent	3.24	3.35	96.7%
NIST #8704	08/24/06		3.06	3.35	91.3%

REPLICATE RESULTS-CONVENTIONALS
JT82-Anchor Environmental



Matrix: Sediment
Data Release Authorized: 
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: JT82A Client ID: T4-S3-01-J					
Total Solids	08/21/06	Percent	64.90	65.60 65.80	0.7%
Total Organic Carbon	08/23/06	Percent	1.04	1.02 0.967	3.7%

MS/MSD RESULTS-CONVENTIONALS
JT82-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: JT82A Client ID: T4-S3-01-J						
Total Organic Carbon	08/23/06	Percent	1.04	1.79	0.931	80.6%

**General Chemistry Analysis
Sample Data**

**prepared
for**

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

**prepared
by**

Analytical Resources, Inc.

SAMPLE RESULTS-CONVENTIONALS
JT82-Anchor Environmental



Matrix: Sediment
Data Release Authorized
Reported: 08/28/06

A handwritten signature in black ink, appearing to be 'M' or 'J', written over the 'Data Release Authorized' text.

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-01-J
ARI ID: 06-15215 JT82A

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/21/06 082106#1	EPA 160.3	Percent	0.01	64.90
Total Organic Carbon	08/23/06 082306#1	Plumb, 1981	Percent	0.020	1.04

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JT82-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *JK*
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-01-K
ARI ID: 06-15216 JT82B

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/21/06 082106#1	EPA 160.3	Percent	0.01	67.70
Total Organic Carbon	08/24/06 082406#1	Plumb, 1981	Percent	0.020	0.312

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONAL
JT82-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *AW*
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06


Client ID: T4-S3-02-G
ARI ID: 06-15217 JT82C

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/21/06 082106#1	EPA 160.3	Percent	0.01	61.60
Total Organic Carbon	08/23/06 082306#1	Plumb, 1981	Percent	0.020	1.09

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JT82-Anchor Environmental



Matrix: Sediment
Data Release Authorized: 
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-J
ARI ID: 06-15218 JT82D

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/21/06 082106#2	EPA 160.3	Percent	0.01	74.30
Total Organic Carbon	08/23/06 082306#1	Plumb, 1981	Percent	0.020	0.775

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JT82-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *[Signature]*
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-K-DUP
ARI ID: 06-15219 JT82E

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/21/06 082106#2	EPA 160.3	Percent	0.01	80.70
Total Organic Carbon	08/23/06 082306#1	Plumb, 1981	Percent	0.020	0.495

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JT82-Anchor Environmental



Matrix: Sediment
Data Release Authorized: *M*
Reported: 08/28/06

Project: T-4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-H
ARI ID: 06-15223 JT82I

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/21/06 082106#2	EPA 160.3	Percent	0.01	69.10
Total Organic Carbon	08/23/06 082306#1	Plumb, 1981	Percent	0.020	1.46

RL Analytical reporting limit
U Undetected at reported detection limit

**General Chemistry Analysis
Instrument Raw Data**

**prepared
for**

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

**prepared
by**

Analytical Resources, Inc.

JT82

TOC Solids Prep Log						DATE: 8/21/2006	
acid purging to remove IC and drying at 70°C for TOC analysis						ANALYST: KE 19:28	
General notes regarding prep method and samples (identify the acid used)							
make no entry to shaded cells, they are calculated							
Sample ID		IC Test + / -	Gravimetric Data (grams)			% Solids	Sample description & notes (homogeneity and exclusions)
ARI #	Client		Tare Wt.	Wet wt.	70°C dry wt		
Blank			12.9652		12.9646	-0.6 mg	
JS55 A1			13.1349	18.1156			
JS55 A1 DUP			13.0355	18.5610			
JS55 A1 TRIP			13.1973	18.4654			
JS55 B1		-	13.1714	18.0593			
JT79 A5		-	13.0242	18.6516	18.1294	90.72%	
JT79 A5 DUP		-	12.9936	18.3983	17.8520	89.89%	
JT79 A5 TRIP		-	13.0654	18.0013	17.5235	90.32%	
JT79 B5		-	13.1538	18.2535	17.7494	90.12%	
JT79 C5		-	13.0255	18.1168	17.7565	92.92%	
JT79 D5		-	13.1569	18.5078	18.3237	96.56%	
JT79 E5		-	12.9457	18.1681	18.2990	102.51%	
JT79 F5		-	13.0563	18.0253	18.1131	101.77%	
JT82 A1		-	13.0199	18.3932	16.7519	69.45%	
JT82 A1 DUP		-	13.1639	18.5348	16.9124	69.79%	
JT82 A1 TRIP		-	13.1252	18.4344	16.8282	69.75%	
JT82 B1		-	13.1162	18.5344	16.9416	70.60%	
JT82 C1		-	13.0412	18.4200	16.5164	64.61%	
JT82 D1		-	13.0213	18.5333	17.3303	78.17%	
JT82 E1		-	13.1083	18.0529	17.2657	84.08%	
JT82 I 1		-	13.1449	18.5664	17.0770	72.53%	
JT86 A5		-	12.0488	18.2471	15.5464	56.43%	
JT86 B4		-	13.0405	18.5059	17.2010	76.12%	
JT86 C4		-	13.1002	18.7646	17.2884	73.94%	
JT86 D5		-	13.1296	18.4896	15.5416	45.00%	
JT86 E4		-	12.9566	18.2246	16.9958	76.67%	
JT86 G17		-	12.9748	18.9026	15.7412	46.67%	
JT86 G17 DUP		-	13.0978	18.4367	15.0795	37.12%	
JT86 G17 TRIP		-	13.0298	18.6998	14.9623	34.08%	
JT86 H5		-	13.2008	18.5038	15.1824	37.37%	

0863

TOC Solids Prep Log

acid purging to remove IC and drying at 70°C for TOC analysis

General notes regarding prep method and samples (identify the acid used)

DATE: 8-21-04

ANALYST: (W) 19:28

make no entry to shaded cells, they are calculated

Sample ID		IC Test +/-	Gravimetric Data (grams)			% Solids	Sample description & notes (homogeneity and exclusions)
ARI #	Client		Tare Wt.	Wet wt.	70°C dry wt		
Blank			12.9652	0	12.9646		
J555 A'		++	13.1349	18.1156			Soil + Rocks
oPA'		++	13.0355	18.5610			
+PA'		++	13.1973	18.4654			
B'		++	13.1714	18.0593			
JT79 A5		-	13.0242	18.6516	18.1294		
oPA5		-	12.9936	18.3983	17.8520		
+PA5		-	13.0654	18.0013	17.5235		
B5		-	13.1538	18.2535	17.7494		
C5		-	13.0255	18.1168	17.7565		
D5		-	13.1569	18.5078	18.3237		
E5		-	12.9457	18.1681	18.2990		↓ Rocks/DRY
F5		-	13.0563	18.0257	18.1131		↓
JT82 A'		-	13.0199	18.3932	16.7519		Thick Sediment
oPA'		-	13.1639	18.5348	16.9124		
+PA'		-	13.1252	18.4344	16.8282		
B'		-	13.1162	18.5344	16.9416		
C'		-	13.0412	18.4200	16.5164		
D'		-	13.0213	18.5333	17.3303		↓
E'		-	13.1083	18.0579	17.2657		Sand
J'		-	13.1449	18.5664	17.0770		Sediment
JT86 A5		-	13.0488	18.2471	15.5464		Sediment / Debris
B4		-	13.0405	18.5059	17.2010		Sandy Soil + Debris
C4		-	13.1002	18.7646	17.2884		Sandy Soil + Debris
D5		-	13.1296	18.4896	15.5416		Sediment + Debris
E4		-	12.9566	18.2246	16.9958		
G17		-	12.9748	18.9026	15.7412		
G17		-	13.0978	18.4367	15.0795		
G17		-	13.0298	18.6998	14.9623		
H5		-	13.2008	18.5038	15.1824		

8-21-04

(W)

Ww
8-22-06

5792

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 8/21/2006
ANALYST: KE

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams)		dry Wt (g)	TS (%)	ASH WT 550C (grams)			TVS (mg/kg)	
				1	2			3	1	2		3
<p>Batch drying time record times as mm/dd/yy hh:mm 8/21/2006 19:16 time in oven KE 8/22/2006 9:32 time out KE elapsed hrs = 14.3</p>												
<p>TS (%) calculated as: Final dry wt (g) = (Dry Wt - Tare Wt) TS = (Final Dry Wt)/(grams Sample-Tare)</p>												
<p>TVS (mg/kg dry wt) calculated as: Final ash wt (g) = (min ash wt - tare wt) TVS (mg/kg) = [(Dry wt-Ash wt)/(dry weight)] *1,000,000 if ash wt > dry wt, "Chk for Err" if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000"</p>												
Blank			0.9999	0.9998		0.00						
JS55 A1		6.1664	0.9999	5.4315		4.43	85.8%					
JS55 A1 dup		6.1302	1.0129	5.3781		4.37	85.3%					
<p>RPD = 0.55% RPD = NA</p>												
JS55 A1 trp		6.1873	1.0116	5.4409		4.43	85.6%					
<p>RSD = 0.28% RSD = NA</p>												
JS55 B1		6.3145	1.0253	5.5619		4.54	85.8%					
JS93 G7		6.3906	1.0155	6.0407		5.03	93.5%					
JS93 H7		6.4568	1.0216	6.1106		5.09	93.6%					
JS93 H7 dup		6.6426	1.0124	6.2780		5.27	93.5%					
<p>RPD = 0.11% RPD = NA</p>												
JS93 H7 trp		6.2455	1.0239	5.9082		4.88	93.5%					
<p>RSD = 0.06% RSD = NA</p>												
JS93 I 7		6.2917	1.0203	5.1486		4.13	78.3%					
JT79 A5		6.1091	1.0023	5.4277		4.43	86.7%					
JT79 A5 dup		6.5598	1.0390	5.9077		4.87	88.2%					
<p>RPD = 1.75% RPD = NA</p>												
JT79 A5 trp		6.4097	0.9821	5.7089		4.73	87.1%					
<p>RSD = 0.90% RSD = NA</p>												
JT79 B5		6.3544	0.9910	5.6030		4.61	86.0%					
JY79 C5		6.5767	1.0222	5.9828		4.96	89.3%					
JT79 D5		6.3149	1.0170	6.0170		5.00	94.4%					
JT79 E5		6.1262	0.9953	6.1106		5.12	99.7%					
JT79 F5		6.1584	0.9909	6.1066		5.12	99.0%					

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min))

DATE: 8/21/2006

ANALYST: KE

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams)		dry wt (g)	TS (%)	ASH WT 550C (grams)			TVS (mg/kg)
				1	2			1	2	3	
JT82 A1		6.2015	0.9927	4.3722		3.38	64.9%				
JT82 A1 dup		6.2929	1.0016	4.4745		3.47	65.6%				
RPD =							1.15%	RPD =			NA
JT82 A1 trp		6.2346	1.0122	4.4460		3.43	65.8%				
RSD =							0.72%	RSD =			NA
JT82 B1		6.6068	0.9860	4.7905		3.80	67.7%				
JT82 C1		6.6352	1.0218	4.4778		3.46	61.6%				
Blank			1.0020	1.0020		0.00					
JT82 D1		6.2490	0.9993	4.9017		3.90	74.3%				
JT82 E1		6.2536	1.0235	5.2420		4.22	80.7%				
JT82 I 1		6.2344	0.9903	4.6128		3.62	69.1%				
JT83 A1		6.1987	1.0170	4.7240		3.71	71.5%				
JT83 A1 dup		6.1224	1.0054	4.5257		3.52	68.8%				
RPD =							3.91%	RPD =			NA
JT83 A1 trp		6.3935	1.0051	4.3649		3.36	62.4%				
RSD =							6.98%	RSD =			NA
JT86 A5		6.2321	0.9831	3.7804		2.80	53.3%				
JT86 B4		6.6009	0.9776	5.1732		4.20	74.6%				
JT86 C4		6.2780	1.0182	4.6239		3.61	68.6%				
JT86 D5		6.1781	0.9995	3.0804		2.08	40.2%				
JT86 E4		6.4180	1.0179	5.0724		4.05	75.1%				
JT86 G17		6.4434	1.0324	2.7120		1.68	31.0%				
JT86 G17 dup		6.4054	1.0242	2.7516		1.73	32.1%				
RPD =							3.36%	RPD =			NA
JT86 G17 trp		6.6126	1.0070	2.7445		1.74	31.0%				
RSD =							1.99%	RSD =			NA
JT86 H5		6.3240	1.0092	2.9446		1.94	36.4%				

TS (%) calculated as:
 Final dry wt (g) = (Dry Wt - Tare Wt)
 TS = (Final Dry Wt)/(grams Sample-Tare)

TVS (mg/kg dry wt) calculated as:
 Final ash wt (g) = (min ash wt - tare wt)
 TVS (mg/kg) = [(Dry wt-Ash wt)/(dry weight)] *1,000,000
 if ash wt > dry wt, "Chk for Err"
 if dry wt-ash wt < 0.001 g, "<(1/dry wt)*1,000,000"

Batch drying time
 record times as mm/dd/yy hh:mm

8/21/2006 19:16 time in oven KE
 8/22/2006 9:32 time out KE
 elapsed hrs = 14.3

① 8-21-06

② 8-22-06

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 8-21-06

SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min))

ANALYST: R

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams)		dry WT (g)	TS (%)	ASH WT 550C (grams)			Ash Wt (g)	TVS (mg/kg)	TVS (%)
				1	2			1	2	3			
Blank													
JSSS A1	1	6.9999	0.9999	0.9999	0.9999	0.9999							
PA1	2	6.1664	0.9999	5.4315									
PA1	3	6.1302	1.0129	5.3781									
PA1	4	6.1873	1.0116	5.4350	5.4409								
PA1	5	6.3145	1.0253	5.5619									
JSS93 G7	6	6.3706	1.0155	6.0407									
PH7	7	6.4568	1.0316	6.1106									
PH7	8	6.6426	1.0124	6.2780									
PH7	9	6.2455	1.0239	5.9082									
PH7	10	6.2977	1.0203	5.1486									
JSS79 AS	11	6.1091	1.0023	5.4277									
PA5	12	6.5598	1.0390	5.9077									
PA5	13	6.4097	1.9821	5.7689									
BS	14	6.3344	0.9910	5.6030									
DS	15	6.5767	1.0222	5.9828									
DS	16	6.3449	1.0170	6.0120									
ES	17	6.1262	0.9953	6.1106									
FS	18	6.1584	0.9909	6.1066									
JT82 A1	19	6.2015	0.9927	4.3722									
PA1	20	6.2929	1.0016	4.4745									
PA1	21	6.2346	1.0122	4.4460									
PA1	22	6.0068	0.9860	4.7905									
CI	23	6.6352	1.0218	4.4778									

Batch drying time
 record times as mm/dd/yy hh:mm
 8-21-06 time in oven 19:16
 8-22-06 time out 9:32
 elapsed hrs = 0.0 < 12 hr

TS (%) calculated as:
 Final dry wt (g) = (Dry Wt - Tare Wt)
 TS = (Final Dry Wt)/(grams Sample-Tare)

TVS (mg/kg dry wt) calculated as:
 Final ash wt (g) = (min ash wt - tare wt)
 TVS (mg/kg) = [(Dry wt-Ash wt)/(dry weight)] * 1,000,000
 if ash wt > dry wt, "Chk for Err"
 if dry wt-ash wt < 0.001 g, "< (1/dry wt) * 1,000,000"

JT82

22
8-24-06

TOC, Solids Data Analysis

Mode: NPOC Inlet: Boat
Spike Std = 2,000 ppm C

DATE: 8/23/2006
ANALYST: KE 10:36

Calibration Data							
Calibration Standard		Source: ARI # 0062-08		Conc: 2,000 ppm			
Observed Values (µg/g)				mean	Cal Factor		
1,590	1,602	1,592		1,595	1.254		
Verification Standard		Source: SPEX 32-44 As		Conc: 5,000 ppm			
ICV	CCV	CCV	CCV	CCV	mean	% Rec	
4,930	5,195	5,137			5,087	101.7%	
Standard Reference Material		Source: NIST 8704		Conc: 33,510 ppm			

Blank Data							Historical Blank Limits	
System Blanks (enter "observed C")							mean	stdev
Replicate determinations				Mean	condition	17.8	7.23	
20.59	18.77	27.84		22.40	OK!	updated	9/27/2005	
Silica Blanks (enter "corrected C" at end of run)							LBL	-3.9
Replicate determinations				Mean	condition	UBL	39.5	

Sample Data (Entered data must match the Dohrmann output report !)
 "Corrected C" (no dilution) = "Observed C" - Mean Blank
 "Corrected C" (with dilution) = ("Observed C" - (Mean silica Blank * %Silica)) * Dilution Factor

Sample ID	Dilution Data				Spike (µL Std)	Combustion Data			
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor		Burn wt. (mg)	Observed C (ppm C)	Corrected C (ppm C)	
ICV				1.00		10.0	4952	4,930	98.59%
Blank				1.00		10.0	20.59		Blank OK
NIST 8704				1.00		3.5	25990	25,968	77.49%
NIST 8704				1.00		3.5	32410	32,388	96.65%
JT38 A3				1.00		3.0	6991	6,969	Range OK!
JT38 A3 dup				1.00		2.9	8099	8,077	RPD=14.7%
JT38 A3 trp				1.00		3.0	6091	6,069	RSD=14.3%
JT38 A3 ms				1.00	10	2.8	13560	13,538	Range OK!
Spike = 0.02 mg C to 2.8 mg samp = 7,143 ppm									92%
JT38 B3				1.00		3.0	8830	8,808	Range OK!
JT38 C3				1.00		3.1	8799	8,777	Range OK!
JT38 D3				1.00		3.0	7912	7,890	Range OK!
JT38 E3				1.00		3.5	708.7	686	Range OK!
CCV				1.00		10.0	5217	5,195	103.89%
Blank				1.00		10.0	18.77		Blank OK
JT82 A1				1.00		2.4	9730	9,708	Range OK!
JT82 A1 dup				1.00		2.2	9567	9,545	RPD=1.7%
JT82 A1 trp				1.00		2.5	9063	9,041	RSD=3.7%
JT82 A1 ms				1.00	10	2.0	25740	25,718	Range OK!
Spike = 0.02 mg C to 2.0 mg samp = 10,000 ppm									160%
JT82 A1 ms				1.00	10	2.3	16750	16,728	Range OK!
Spike = 0.02 mg C to 2.3 mg samp = 8,696 ppm									81%
JT82 B4				1.00		2.7	3024	2,999	Range OK!
JT82 C1				1.00		3.1	10460	10,438	Range OK!
JT82 D1				1.00		3.2	7390	7,368	Range OK!
JT82 E1				1.00		3.5	4771	4,749	Range OK!
JT82 I 1				1.00		2.6	13960	13,938	Range OK!
NIST 8704				1.00		3.2	29160	29,138	86.95%
CCV				1.00		10.0	5159	5,137	102.73%
Blank				1.00		10.0	27.84		Blank OK

dw
8-24-06

JT82

TOC, Solids Data Analysis

Mode: NPOC Inlet: Boat
Spike Std = 2,000 ppm C

DATE: 8/24/2006
ANALYST: KE 9:44

Calibration Data							
Calibration Standard		Source: ARI # 0062-08		Conc: 2,000 ppm			
Observed Values (µg/g)				mean	Cal Factor		
1,588	1,570	1,579		1,579	1.267		
Verification Standard		Source: SPEX 32-44 As		Conc: 5,000 ppm			
ICV	CCV	CCV	CCV	CCV	mean	% Rec	
5,086	5,118				5,102	102.0%	
Standard Reference Material		Source: NIST 8704		Conc: 33,510 ppm			

Blank Data							Historical Blank Limits	
System Blanks (enter "observed C")							mean	stdev
Replicate determinations				Mean	condition	17.8	7.23	
18.49	23.19			20.84	OK!	updated	9/27/2005	
Silica Blanks (enter "corrected C" at end of run)							LBL	-3.9
Replicate determinations				Mean	condition	UBL	39.5	

Sample Data (Entered data must match the Dohrmann output report !)

"Corrected C" (no dilution) = "Observed C" - Mean Blank
 "Corrected C" (with dilution) = ("Observed C" - (Mean silica Blank * %Silica)) * Dilution Factor

Sample ID	Dilution Data				Spike (µL Std)	Combustion Data			
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor		Burn wt. (mg)	Observed C (ppm C)	Corrected C (ppm C)	
ICV				1.00		10.0	5107	5,086	101.72%
Blank				1.00		10.0	18.49		Blank OK
NIST 8704				1.00		3.2	30660	30,639	91.43%
JU08 A1				1.00		3.3	971.2	950	Range OK!
JU08 A1 dup				1.00		3.2	690.8	670	RPD=34.6%
JU08 A1 trp				1.00		3.3	778	757	RSD=18.1%
JU08 A1 ms				1.00	10	2.0	11500	11,479	Range OK!
Spike = 0.02 mg C to 2.0 mg samp = 10,000 ppm 105%									
JU08 B1				1.00		2.5	637.6	617	Range OK!
JU08 C1				1.00		3.4	613.9	593	Range OK!
JU08 D1				1.00		3.5	2003	1,982	Range OK!
JT82 B1				1.00		2.7	3011	2,990	Range OK!
NIST 8704			-	1.00		3.4	20480	20,159	60.16%
NIST 8704				1.00		3.4	30640	30,619	91.37%
CCV				1.00		10.0	5139	5,118	102.36%
Blank				1.00		10.0	23.19		Blank OK



(N) 9:44

Page 1 of 1 (A)

TOC Solids Sample Run Log

Set-Up Parameters			MODE: <i>NPOC</i>			INLET: <i>BOAT</i>		
Standards:	Source		Conc (ppm)					
Calibration:	<i>ART</i>	<i>006208</i>	<i>2000</i>					
Verification:	<i>SPEX</i>	<i>3244AS</i>	<i>5000</i>					
SRM:	<i>NBS</i>	<i>8704</i>	<i>33SID</i>					
Sample Sequence:								
Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments		
	Sample	+ Silica Gel	mg	mg/L	µL added			
<i>cal @ 2000</i>			<i>25</i>					
<i>ICV</i>			<i>10</i>					
<i>ICB</i>			<i>10</i>					
<i>NBS 8704</i>			<i>3.2</i>					
<i>J408 A'</i>			<i>3.3</i>					
<i>DPA'</i>			<i>3.2</i>					
<i>HPA'</i>			<i>3.3</i>					
<i>MSA'</i>			<i>2.0</i>	<i>2000</i>	<i>10</i>			
<i>B'</i>			<i>2.5</i>					
<i>C'</i>			<i>3.4</i>					
<i>D'</i>			<i>3.5</i>					
<i>JT82 B'</i>			<i>2.7</i>					
<i>NBS 8704</i>			<i>3.4/3.4</i>			<i>2 injects</i>		
<i>CCV</i>			<i>10</i>					
<i>CCB</i>			<i>10</i>					
<i>8-24-06</i>								
<i>(W)</i>								

8-24-06

Operating Parameters

Analysis set-up 1
NPOC Analysis
Boat mode
Sample size 25.
Calibration factor 1.
System blank 0.
Std. concentration =2000.
Sample mass (mg) = 25.
1. NPOC = 1558. ug/g
Sample mass (mg) = 25.
2. NPOC = 1588. ug/g
Sample mass (mg) = 25.
3. NPOC = 1595. ug/g
Sample mass (mg) = 25.
4. NPOC = 1570. ug/g
Sample mass (mg) = 25.
5. NPOC = 1579. ug/g
AVG NPOC = 1578. +/- 14.44 % std dev: 0.915
10:46:47 Thu Aug 24, 2006
Repeat number 1 omitted:
Repeat number 3 omitted:

AVG NPOC = 1579. +/- 8.986 % std dev: 0.569

Calibration update:
Calibration factor 1.266
System blank 0.
Sample mass (mg) = 10.
1. NPOC = 5107. ug/g
11:25:04 Thu Aug 24, 2006
Sample mass (mg) = 10.
1. NPOC = 18.49 ug/g
11:39:35 Thu Aug 24, 2006
Sample mass (mg) = 3.2
1. NPOC = 30660. ug/g
11:56:18 Thu Aug 24, 2006
Sample mass (mg) = 3.3
1. NPOC = 971.2 ug/g
12:09:29 Thu Aug 24, 2006
Sample mass (mg) = 3.2
1. NPOC = 690.8 ug/g
12:23:49 Thu Aug 24, 2006
Sample mass (mg) = 3.3
1. NPOC = 778. ug/g
12:40:45 Thu Aug 24, 2006
Sample mass (mg) = 2.
1. NPOC = 11500. ug/g
12:47:06 Thu Aug 24, 2006
Sample mass (mg) = 2.5
1. NPOC = 637.6 ug/g
12:53:36 Thu Aug 24, 2006
Sample mass (mg) = 3.4
1. NPOC = 613.9 ug/g
12:59:35 Thu Aug 24, 2006
Sample mass (mg) = 3.5
1. NPOC = 2003. ug/g
13:05:54 Thu Aug 24, 2006
Sample mass (mg) = 2.7
1. NPOC = 3011. ug/g
13:11:31 Thu Aug 24, 2006
Sample mass (mg) = 3.4

1. NPOC = 20180. ug/g
13:19:39 Thu Aug 24, 2006
Sample mass (mg) = 3.4
1. NPOC = 30640. ug/g
13:26:17 Thu Aug 24, 2006
Sample mass (mg) = 10.
1. NPOC = 5139. ug/g
13:33:51 Thu Aug 24, 2006
Sample mass (mg) = 10.
1. NPOC = 23.19 ug/g

Geotech Analysis

**prepared
for**

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JT82

**prepared
by**

Analytical Resources, Inc.



Client: Anchor Environmental

ARI Project No.: JT82

Client Project No.: T-4 Early Action 050332-01

Case Narrative

1. Nine samples were received on July 21, 2006 and submitted for grain size distribution according to ASTM D421/D422.
2. Prior to testing, visual inspection classified most of the samples as silts and sands. Samples T4-S3-01-J and T4-S3-02-G were classified as clays and silts.
3. Most of the samples had some woody matter, which may have broken down during the sieving process, affecting grain size analysis.
4. Sample T4-S3-01-J was selected for triplicate analysis. The triplicate data is reported on the QA Summary page.
5. A standard "milkshake" mixer was used to disperse the samples.
6. An assumed specific gravity of 2.65 was used in the calculations.
7. All of the samples were consumed during testing.
8. There were no further anomalies in the samples or test method.
9. The data is provided in summary tables and plots.

Approved by:
Title:

Taylor McKenzie
Lead Technician

Date:

8/31/06

Percent Finer (Passing) Than the Indicated Size

Sieve Size (microns)	2"	1"	3/4"	1/2"	3/8"	#4 (4750)	#10 (2000)	#20 (850)	#40 (425)	#60 (250)	#100 (150)	#200 (75)	32	22	13	9	7	3.2	1.3
T4-S3-01-J	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.3	96.6	89.6	80.3	56.2	39.8	32.5	26.0	21.0	17.3	10.8	8.0
T4-S3-01-J	100.0	100.0	100.0	100.0	100.0	99.6	99.5	99.1	96.5	89.7	80.6	56.6	39.3	31.9	25.9	20.8	17.8	11.1	7.4
T4-S3-01-J	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.5	97.1	89.8	80.4	58.4	39.5	32.4	26.1	21.3	19.0	11.1	7.1
T4-S3-01-K	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.5	94.8	68.7	41.8	32.4	24.5	19.4	15.1	10.1	7.2
T4-S3-02-G	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	97.2	88.3	83.3	69.0	42.2	34.6	27.7	22.3	16.9	10.8	6.9
T4-S3-02-J	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.2	85.1	44.7	33.6	29.7	19.6	16.1	12.1	10.4	7.5	4.0	2.9
T4-S3-02-K	100.0	100.0	100.0	100.0	100.0	98.4	97.5	95.2	70.1	25.3	13.9	9.9	6.5	5.2	3.9	3.0	2.2	1.3	1.3
T4-S3-03-E	100.0	100.0	100.0	100.0	100.0	99.9	99.9	98.1	77.5	42.8	32.5	25.8	18.2	16.1	11.9	9.1	6.3	3.5	2.1
T4-S3-03-F	100.0	100.0	100.0	100.0	100.0	100.0	99.8	95.7	62.8	21.7	13.6	11.5	8.3	7.4	6.1	4.8	3.5	2.2	1.3
T4-S3-03-G	100.0	100.0	100.0	100.0	100.0	100.0	99.7	95.7	65.0	22.6	14.6	12.8	10.2	9.3	7.5	5.8	4.9	2.7	1.8
T4-S3-02-H	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4	87.6	55.9	45.2	36.6	24.9	23.5	19.9	16.3	12.8	8.5	5.7

Testing performed according to ASTM D421/D422

Anchor Environmental
T-4 Early Action 050332-01

Percent Retained in Each Size Fraction

Description	% Gravel > 4750	% Coarse Sand 4750-2000	% Medium Sand 2000-425	% Fine Sand 425-75	% Very Coarse Silt 75-32	% Coarse Silt 32-22	% Medium Silt 22-13	% Fine Silt 13-9	% Fine Silt 9-7	% Very Fine Silt 7-3.2	% Clay <3.2
Particle Size (microns)											
T4-S3-01-J	0.0	0.3	3.1	40.5	16.4	7.2	6.5	5.1	3.6	6.5	10.8
T4-S3-01-J	0.4	0.1	3.0	39.9	17.3	7.4	5.9	5.2	3.0	6.7	11.1
T4-S3-01-J	0.0	0.1	2.8	38.7	18.9	7.1	6.3	4.7	2.4	7.9	11.1
T4-S3-01-K	0.0	0.0	0.2	31.2	26.9	9.4	7.9	5.0	4.3	5.0	10.1
T4-S3-02-G	0.0	0.0	2.8	28.2	26.7	7.7	6.9	5.4	5.4	6.1	10.8
T4-S3-02-J	0.0	0.1	14.8	55.4	10.1	3.5	4.0	1.7	2.9	3.5	4.0
T4-S3-02-K	1.6	0.9	27.4	60.2	3.4	1.3	1.3	0.9	0.9	0.9	1.3
T4-S3-03-E	0.1	0.1	22.3	51.7	7.6	2.1	4.2	2.8	2.8	2.8	3.5
T4-S3-03-F	0.0	0.2	37.1	51.3	3.2	0.9	1.3	1.3	1.3	1.3	2.2
T4-S3-03-G	0.0	0.3	34.8	52.2	2.6	0.9	1.8	1.8	0.9	2.2	2.7
T4-S3-02-H	0.0	0.0	12.3	51.0	11.7	1.4	3.6	3.6	3.6	4.3	8.5

PROJECT: Anchor Environmental Project No.: T-4 Early Action 050332-01
 ARI Triplicate Sample ID: JT82 A Batch No.: JT82 -01
 Client Triplicate Sample ID: T4-S3-01-J Page: 1 of 1

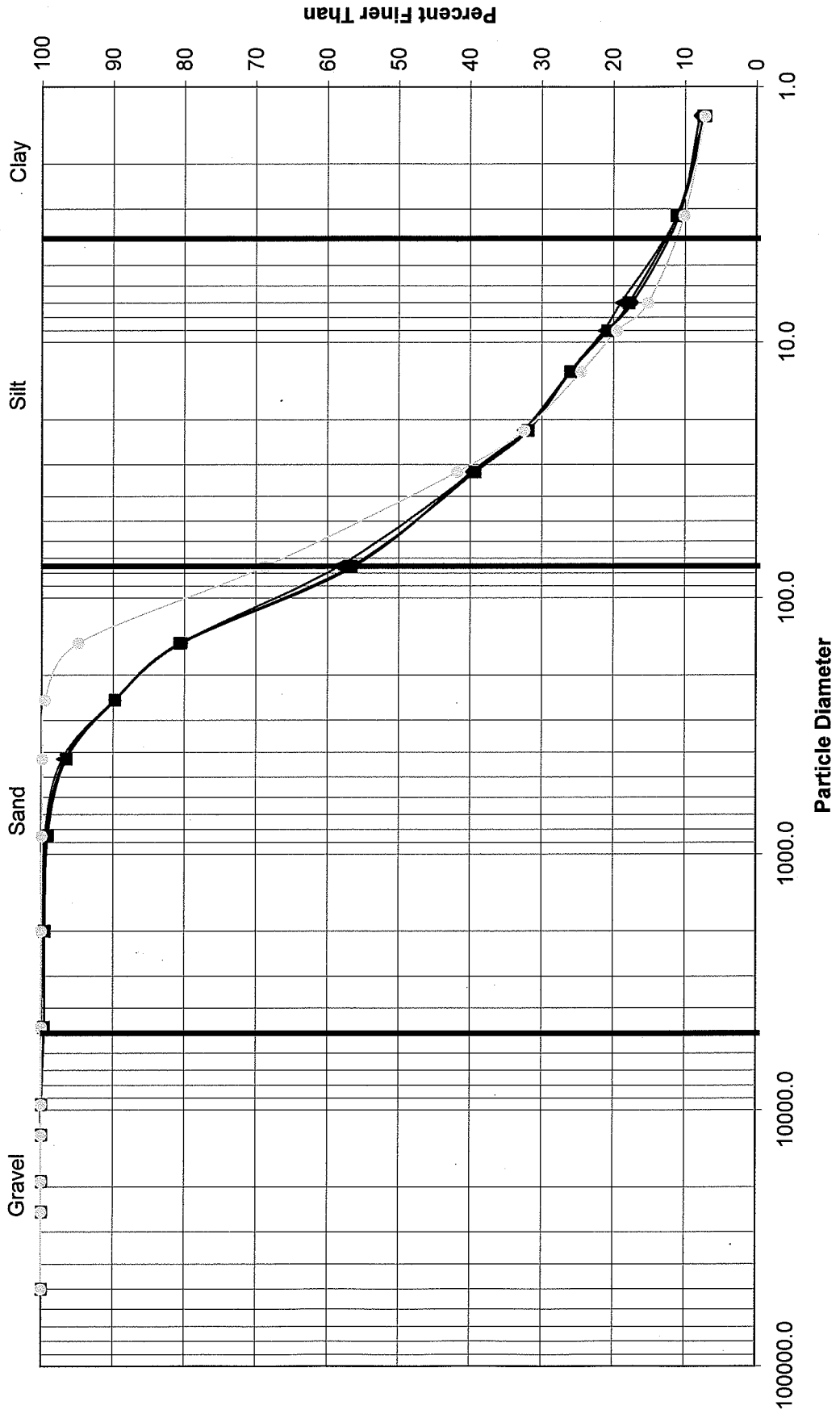
Relative Standard Deviation, By Size

Sample ID	4750	2000	850	425	250	150	75	32	22	13	9	7	3.2	1.3
T4-S3-01-J	100.0	100.0	100.0	100.0	100.0	99.7	99.3	96.6	89.6	80.3	56.2	39.8	32.5	26.0
T4-S3-01-J	100.0	100.0	100.0	100.0	99.6	99.5	99.1	96.5	89.7	80.6	56.6	39.3	31.9	25.9
T4-S3-01-J	100.0	100.0	100.0	100.0	100.0	99.9	99.5	97.1	89.8	80.4	58.4	39.5	32.4	26.1
AVE	100.00	100.00	100.00	100.00	99.87	99.72	99.33	96.73	89.70	80.44	57.05	39.52	32.26	26.01
STDEV	0.00	0.00	0.00	0.00	0.23	0.19	0.21	0.29	0.08	0.11	1.16	0.23	0.34	0.06
%RSD	0.00	0.00	0.00	0.00	0.23	0.19	0.21	0.30	0.09	0.14	2.04	0.58	1.05	0.24

This Triplicate applies to the Batch Containing the Following Samples

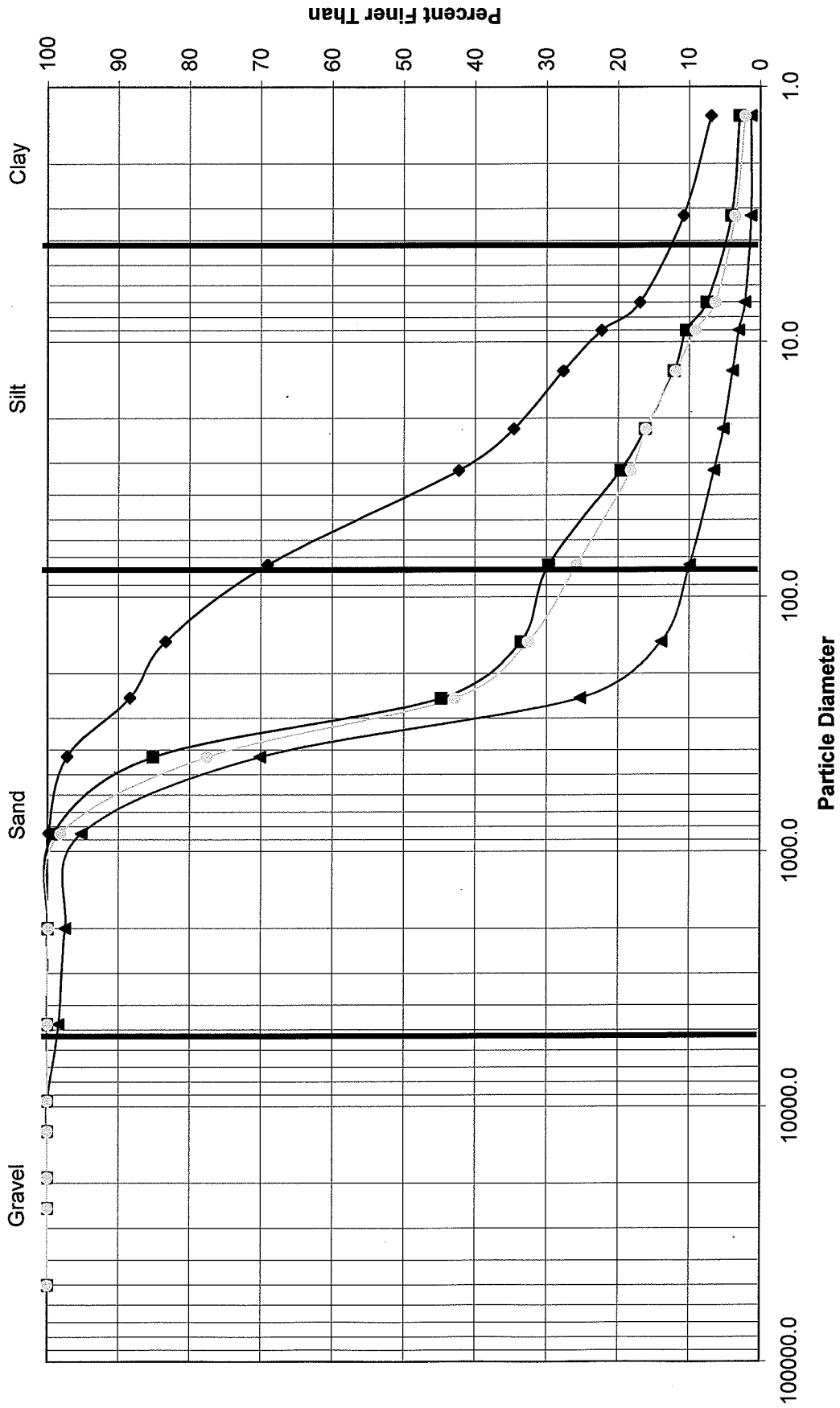
Sample ID	Date Sampled	Date Set up	Date Started	Date Complete	Data Qualifiers
T4-S3-01-J	7/18/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-01-J	7/18/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-01-J	7/18/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-01-K	7/18/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-02-G	7/18/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-02-J	7/18/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-02-K	7/18/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-03-E	7/19/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-03-F	7/19/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-03-G	7/19/2006	8/23/2006	8/28/2006	8/30/2006	
T4-S3-02-H	7/18/2006	8/23/2006	8/28/2006	8/30/2006	

Grain Size Distribution by Hydrometer



T4-S3-01-J
 T4-S3-01-K
 T4-S3-01-L

Grain Size Distribution by Hydrometer



- ◆ T4-S3-02-G
- T4-S3-02-J
- ▲ T4-S3-02-K
- T4-S3-03-E

Hydrometer Analysis - ASTM D-422

ARI Job No.: JT82 ARI Sample No.: A-1
 Client Sample Number: T4-S3-01-J
 Description: SILT, CLAY
 Method of size reduction: Quartering [] Sample Splitter [] Whole Sample []

Moisture Content	
Tare Number	<u>A-1</u>
Tare Weight	<u>1.44</u>
Wet Soil + Tare (g)	<u>29.53</u>
Dry Soil + Tare (g)	<u>28.60</u>

Tare Number	<u>A-1</u>
Tare Weight (g)	<u>10.48</u>
Weight Total Sample (g) (Air-dried, not sieved)	<u>143.39</u>
Weight Hydro Test Sample (g)	<u>71.46</u>
Tare + Oven Dry Plus #10 (g)	<u>10.70</u>
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	<u>42.95</u>

Date Set Up 8/23/00
 Technician: TM
 Hydro Beaker: AM
 Hydro #: 115170
 Calgon Batch #: 141

8/28/06		Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
Place	TIME	START			
	9:55:00				
	9:56:00	1	37	4.5	23
	9:57:00	2	32	4.5	23
	10:00:00	5	27	4.5	23
	10:10:00	15	22.5	4.5	23
	10:25:00	30	19	4.5	23
	10:55:00	60	16.5	4.5	23
	14:05:00	250	12	4.5	23.5
	9:55:00	1440	10	4.5	22.5

Sieve Analysis

Date Sieved: 8/30/06 Technician: gs Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	<u>10.54</u>
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	<u>10.88</u>
#20	<u>11.15</u>
#40	<u>13.02</u>
#60	<u>17.89</u>
#100	<u>24.32</u>
#200	<u>41.05</u>
Pan	<u>43.15</u>

WET WT : 200.38

Hydrometer Analysis - ASTM D-422

ARI Job No.: JT82 ARI Sample No.: A-2
 Client Sample Number: T4-S3-01-J
 Description: SILT, CLAY
 Method of size reduction: Quartering [] Sample Splitter [] Whole Sample []

Moisture Content	
Tare Number	<u>A-2</u>
Tare Weight	<u>1.45</u>
Wet Soil + Tare (g)	<u>30.42</u>
Dry Soil + Tare (g)	<u>28.69</u> <u>29.44</u>

Tare Number	<u>A-2</u>
Tare Weight (g)	<u>10.37</u>
Weight Total Sample (g) (Air-dried, not sieved)	<u>140.41</u>
Weight Hydro Test Sample (g)	<u>69.56</u>
Tare + Oven Dry Plus #10 (g)	<u>11.06</u>
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	<u>41.64</u>

Date Set Up 8/23/06
 Technician: tm
 Hydro Beaker: A
 Hydro #: 115170
 Calgon Batch #: 141

Place	8/28/06	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
	TIME				
		START			
	10:04:00				
	10:05:00	1	35	4.5	23
	10:06:00	2	31	4.5	23
	10:09:00	5	26	4.5	23
	10:19:00	15	22	4.5	23
	10:34:00	30	18.5	4.5	23
	11:04:00	60	16.5	4.5	23
	14:14:00	250	12	4.5	23
	10:04:00	1440	9.5	4.5	23

Sieve Analysis

Date Sieved: 8/30/06 Technician: gs Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	<u>10.43</u>
2"	
1"	
3/4	
1/2	
3/8	
#4	<u>10.73</u>
#10	<u>11.04</u>
#20	<u>11.31</u>
#40	<u>13.08</u>
#60	<u>17.68</u>
#100	<u>23.84</u>
#200	<u>40.03</u>
Pan	<u>41.90</u>

Hydrometer Analysis - ASTM D-422

ARI Job No.: JT82 ARI Sample No.: A-3
 Client Sample Number: T4-S3-01-J
 Description: SILT, CLAY
 Method of size reduction: Quartering Sample Splitter Whole Sample

Moisture Content	
Tare Number	<u>A-3</u>
Tare Weight	<u>1.45</u>
Wet Soil + Tare (g)	<u>29.64</u>
Dry Soil + Tare (g)	<u>28.69</u>

Tare Number	<u>A-3</u>
Tare Weight (g)	<u>10.43</u>
Weight Total Sample (g) (Air-dried, not sieved)	<u>153.96</u>
Weight Hydro Test Sample (g)	<u>65.52</u>
Tare + Oven Dry Plus #10 (g)	<u>10.59</u>
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	<u>39.74</u>

Date Set Up 8/23/06
 Technician: tm
 Hydro Beaker: AE
 Hydro #: 115170
 Calgon Batch #: 141

Place	8/28/06	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
	TIME				
		START			
	10:13:00				
	10:14:00	1	<u>33</u>	<u>4.5</u>	<u>23</u>
	10:15:00	2	<u>29.5</u>	<u>4.5</u>	<u>23</u>
	10:18:00	5	<u>25</u>	<u>4.5</u>	<u>23</u>
	10:28:00	15	<u>21</u>	<u>4.5</u>	<u>23</u>
	10:43:00	30	<u>18</u>	<u>4.5</u>	<u>23</u>
	11:13:00	60	<u>16.5</u>	<u>4.5</u>	<u>23</u>
	14:23:00	250	<u>11.5</u>	<u>4.5</u>	<u>23</u>
	10:13:00	1440	<u>9</u>	<u>4.5</u>	<u>23</u>

Sieve Analysis

Date Sieved: 8/30/06 Technician: gs Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	<u>10.77</u>
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	<u>10.61</u>
#20	<u>10.84</u>
#40	<u>12.41</u>
#60	<u>17.02</u>
#100	<u>22.96</u>
#200	<u>36.93</u>
Pan	<u>39.90</u>

Hydrometer Analysis - ASTM D-422

ARI Job No.: J182 ARI Sample No.: B
 Client Sample Number: T4-S3-01-K
 Description: SILT, FINE SAND
 Method of size reduction: Quartering Sample Splitter Whole Sample

Moisture Content	
Tare Number	<u>B</u>
Tare Weight	<u>1.47</u>
Wet Soil + Tare (g)	<u>29.06</u>
Dry Soil + Tare (g)	<u>28.19</u>

Tare Number	<u>BA</u>
Tare Weight (g)	<u>10.42</u>
Weight Total Sample (g) (Air-dried, not sieved)	<u>126.43</u>
Weight Hydro Test Sample (g)	<u>71.99</u>
Tare + Oven Dry Plus #10 (g)	<u>10.44</u>
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	<u>35.20</u>

Date Set Up 8/23/06
 Technician: tm
 Hydro Beaker: BA
 Hydro #: 115170
 Calgon Batch #: 141

Place	8/28/06	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
		TIME	START		
	10:22:00				
	10:23:00	1	<u>40</u>	<u>4.5</u>	<u>23</u>
	10:24:00	2	<u>33.5</u>	<u>4.5</u>	<u>23</u>
	10:27:00	5	<u>27</u>	<u>4.5</u>	<u>23</u>
	10:37:00	15	<u>21.5</u>	<u>4.5</u>	<u>23</u>
	10:52:00	30	<u>18</u>	<u>4.5</u>	<u>23</u>
	11:22:00	60	<u>15</u>	<u>4.5</u>	<u>23</u>
	14:32:00	250	<u>11.5</u>	<u>4.5</u>	<u>23</u>
	10:22:00	1440	<u>9.5</u>	<u>4.5</u>	<u>23</u>

Sieve Analysis

Date Sieved: 8/30/06 Technician: 96 Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	<u>10.465</u>
2"	
1"	
3/4"	
1/2"	
3/8"	
#4	
#10	
#20	<u>10.49</u>
#40	<u>10.57</u>
#60	<u>10.82</u>
#100	<u>14.07</u>
#200	<u>32.73</u>
Pan	<u>35.54</u>

WET WT: 198.83

Hydrometer Analysis - ASTM D-422

ARI Job No.: JT82 ARI Sample No.: C
 Client Sample Number: T4-33-02-G
 Description: CLAY, SILT
 Method of size reduction: Quartering [] Sample Splitter [] Whole Sample []

Moisture Content	
Tare Number	<u>C</u>
Tare Weight	<u>1.49</u>
Wet Soil + Tare (g)	<u>29.10</u>
Dry Soil + Tare (g)	<u>28.15</u>

Tare Number	<u>C</u>
Tare Weight (g)	<u>10.45</u>
Weight Total Sample (g) (Air-dried, not sieved)	<u>127.98</u>
Weight Hydro Test Sample (g)	<u>67.50</u>
Tare + Oven Dry Plus #10 (g)	<u>10.47</u>
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	<u>33.94</u>

Date Set Up 8/23/06
 Technician: tm
 Hydro Beaker: A6
 Hydro #: 115/70
 Calgon Batch #: 141

8/28/06		Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
Place	TIME				
		START			
	10:31:00				
	10:32:00	1	35	4.5	23
	10:33:00	2	32	4.5	23
	10:36:00	5	27	4.5	23
	10:46:00	15	22.5	4.5	23
	11:01:00	30	19	4.5	23
	11:31:00	60	15.5	4.5	23
	14:41:00	250	11.5	4.5	23
	10:31:00	1440	9	4.5	23

Sieve Analysis
 Date Sieved: 8/30/06 Technician: gs Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	<u>10.47</u>
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	<u>10.49</u>
#20	<u>10.61</u>
#40	<u>12.31</u>
#60	<u>18.09</u>
#100	<u>21.36</u>
#200	<u>30.70</u>
Pan	<u>34.14</u>

WET WT: 197.19

Hydrometer Analysis - ASTM D-422

ARI Job No.: JTB2 ARI Sample No.: D
 Client Sample Number: T4-S3-02-J
 Description: SILT, FINE SAND
 Method of size reduction: Quartering Sample Splitter Whole Sample

Moisture Content	
Tare Number	D
Tare Weight	1.47
Wet Soil + Tare (g)	29.28
Dry Soil + Tare (g)	28.70

Tare Number	D
Tare Weight (g)	10.42
Weight Total Sample (g) (Air-dried, not sieved)	150.54
Weight Hydro Test Sample (g)	88.62
Tare + Oven Dry Plus #10 (g)	10.52
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	72.02

Date Set Up 8/23/06
 Technician: tm
 Hydro Beaker: 11X
 Hydro #: 115170
 Calgon Batch #: 141

8/28/06		Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
Place	TIME	START			
	10:40:00				
	10:41:00	1	25	4.5	23
	10:42:00	2	21.5	4.5	23
	10:45:00	5	18.5	4.5	23
	10:55:00	15	15	4.5	23
	11:10:00	30	13.5	4.5	23
	11:40:00	60	11	4.5	23
	14:50:00	250	8	4.5	23
	10:40:00	1440	7	4.5	23

Sieve Analysis
 Date Sieved: 8/30/06 Technician: gs Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.44
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.53
#20	11.21
#40	23.41
#60	58.51
#100	68.17
#200	71.55
Pan	72.22

WET WT: 227.82

Hydrometer Analysis - ASTM D-422

ARI Job No.: JT82 ARI Sample No.: E
 Client Sample Number: T4-S3-02-K
 Description: SAND
 Method of size reduction: Quartering Sample Splitter Whole Sample

Moisture Content	
Tare Number	<u>E</u>
Tare Weight	<u>1.48</u>
Wet Soil + Tare (g)	<u>28.22</u>
Dry Soil + Tare (g)	<u>27.8</u>

Tare Number	<u>E</u>
Tare Weight (g)	<u>10.46</u>
Weight Total Sample (g) (Air-dried, not sieved)	<u>174.41</u>
Weight Hydro Test Sample (g)	<u>114.54</u>
Tare + Oven Dry Plus #10 (g)	<u>15.07</u>
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	<u>110.48</u>

Date Set Up 8/23/06
 Technician: Ym
 Hydro Beaker: AR
 Hydro #: 115170
 Calgon Batch #: 141

8/28/06		Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
Place	TIME	START			
	10:49:00				
	10:50:00	<u>1</u>	<u>13</u>	<u>4.5</u>	<u>23</u>
	10:51:00	<u>2</u>	<u>12</u>	<u>4.5</u>	<u>23</u>
	10:54:00	<u>5</u>	<u>10.5</u>	<u>4.5</u>	<u>23</u>
	11:04:00	<u>15</u>	<u>9</u>	<u>4.5</u>	<u>23</u>
	11:19:00	<u>30</u>	<u>8</u>	<u>4.5</u>	<u>23</u>
	11:49:00	<u>60</u>	<u>7</u>	<u>4.5</u>	<u>23</u>
	14:59:00	<u>250</u>	<u>6</u>	<u>4.5</u>	<u>23</u>
	10:49:00	<u>1440</u>	<u>6</u>	<u>4.5</u>	<u>23</u>

Sieve Analysis

Date Sieved: 8/30/06 Technician: gs Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	<u>10.51</u>
2"	
1"	
3/4	
1/2	
3/8	
#4	<u>13.16</u>
#10	<u>14.59</u>
#20	<u>17.23</u>
#40	<u>46.27</u>
#60	<u>98.10</u>
#100	<u>111.30</u>
#200	<u>115.90</u>
Pan	<u>116.50</u>

Hydrometer Analysis - ASTM D-422

ARI Job No.: JT82 ARI Sample No.: F
 Client Sample Number: T4-53-03E
 Description: SILT, Some SAND
 Method of size reduction: Quartering Sample Splitter Whole Sample

Moisture Content	
Tare Number	<u>F</u>
Tare Weight	<u>1.46</u>
Wet Soil + Tare (g)	<u>28.03</u>
Dry Soil + Tare (g)	<u>27.44</u>

Tare Number	<u>F</u>
Tare Weight (g)	<u>10.35</u>
Weight Total Sample (g) (Air-dried, not sieved)	<u>163.10</u>
Weight Hydro Test Sample (g)	<u>73.21</u>
Tare + Oven Dry Plus #10 (g)	<u>10.59</u>
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	<u>64.35</u>

Date Set Up 8/23/06
 Technician: JM
 Hydro Beaker: ED
 Hydro #: 115170
 Calgon Batch #: 141

8/28/06		Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
Place	TIME	START			
	10:58:00	1	<u>19</u>	<u>4.5</u>	<u>23</u>
	10:59:00	2	<u>17.5</u>	<u>4.5</u>	<u>23</u>
	11:00:00	5	<u>16</u>	<u>4.5</u>	<u>23</u>
	11:03:00	15	<u>13</u>	<u>4.5</u>	<u>23</u>
	11:28:00	30	<u>11</u>	<u>4.5</u>	<u>23</u>
	11:58:00	60	<u>9</u>	<u>4.5</u>	<u>23</u>
	15:08:00	250	<u>7</u>	<u>4.5</u>	<u>23</u>
	10:58:00	1440	<u>6</u>	<u>4.5</u>	<u>23</u>

Sieve Analysis
 Date Sieved: 8/31/06 Technician: gs Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	<u>10.36</u>
2"	
1"	
3/4	
1/2	
3/8	
#4	<u>10.44</u>
#10	<u>10.58</u>
#20	<u>11.81</u>
#40	<u>26.60</u>
#60	<u>51.50</u>
#100	<u>58.87</u>
#200	<u>63.68</u>
Pan	<u>64.56</u>

WET WT: 199.95

Hydrometer Analysis - ASTM D-422

ARI Job No.: JT82 ARI Sample No.: G
 Client Sample Number: T4-53-03-F
 Description: SILT, SAND
 Method of size reduction: Quartering [] Sample Splitter [] Whole Sample []

Moisture Content	
Tare Number	<u>G</u>
Tare Weight	<u>1.48</u>
Wet Soil + Tare (g)	<u>27.58</u>
Dry Soil + Tare (g)	<u>27.16</u>

Tare Number	<u>G</u>
Tare Weight (g)	<u>10.51</u>
Weight Total Sample (g) (Air-dried, not sieved)	<u>165.86</u>
Weight Hydro Test Sample (g)	<u>115.99</u>
Tare + Oven Dry Plus #10 (g)	<u>10.74</u>
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	<u>111.85</u>

Date Set Up 8/23/06
 Technician: fm
 Hydro Beaker: D2
 Hydro #: 115170
 Calgon Batch #: 141

8/28/06		Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
Place	TIME	START			
	11:07:00				
	11:08:00	<u>1</u>	<u>16</u>	<u>4.5</u>	<u>23</u>
	11:09:00	<u>2</u>	<u>14</u>	<u>4.5</u>	<u>23</u>
	11:12:00	<u>5</u>	<u>13</u>	<u>4.5</u>	<u>23</u>
	11:22:00	<u>15</u>	<u>11.5</u>	<u>4.5</u>	<u>23</u>
	11:37:00	<u>30</u>	<u>10</u>	<u>4.5</u>	<u>23</u>
	12:07:00	<u>60</u>	<u>8.5</u>	<u>4.5</u>	<u>23</u>
	15:17:00	<u>250</u>	<u>7</u>	<u>4.5</u>	<u>23</u>
	11:07:00	<u>1440</u>	<u>6</u>	<u>4.5</u>	<u>23</u>

Sieve Analysis

Date Sieved: 8/30/06 Technician: gs Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	<u>10.51</u>
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	<u>10.76</u>
#20	<u>15.50</u>
#40	<u>53.12</u>
#60	<u>100.04</u>
#100	<u>109.37</u>
#200	<u>111.73</u>
Pan	<u>111.89</u>

Hydrometer Analysis - ASTM D-422

ARI Job No.: JT82 ARI Sample No.: H
 Client Sample Number: 74-53-03-C7
 Description: SAND, SILT
 Method of size reduction: Quartering [] Sample Splitter [] Whole Sample []

Moisture Content	
Tare Number	<u>H</u>
Tare Weight	<u>1.48</u>
Wet Soil + Tare (g)	<u>27.51</u>
Dry Soil + Tare (g)	<u>27.10</u>

Tare Number	<u>H</u>
Tare Weight (g)	<u>10.49</u>
Weight Total Sample (g) (Air-dried, not sieved)	<u>151.59</u>
Weight Hydro Test Sample (g)	<u>114.44</u>
Tare + Oven Dry Plus #10 (g)	<u>10.90</u>
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	<u>109.18</u>

Date Set Up 8/23/06
 Technician: tm
 Hydro Beaker: BB
 Hydro #: 115170
 Calgon Batch #: 141

		8/28/06				
		TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
Place		11:16:00	START			
		11:17:00	1	17	4.5	23
		11:18:00	2	16	4.5	23
		11:21:00	5	15	4.5	23
		11:31:00	15	13	4.5	23
		11:46:00	30	11	4.5	23
		12:16:00	60	10	4.5	23
		15:26:00	250	7.5	4.5	23
		11:16:00	1440	6.5	4.5	23

Sieve Analysis

Date Sieved: 8/31/06 Technician: gs Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	<u>10.49</u>
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	<u>10.87</u>
#20	<u>15.41</u>
#40	<u>50.13</u>
#60	<u>97.98</u>
#100	<u>107.07</u>
#200	<u>109.10</u>
Pan	<u>109.27</u>

Hydrometer Analysis - ASTM D-422

ARI Job No.: JT87 ARI Sample No.: I
 Client Sample Number: TH-53-02-H
 Description: SILT, Some Sand
 Method of size reduction: Quartering [] Sample Splitter [] Whole Sample []

Moisture Content	
Tare Number	<u>I</u>
Tare Weight	<u>1.45</u>
Wet Soil + Tare (g)	<u>26.60</u>
Dry Soil + Tare (g)	<u>25.94</u>

Tare Number	<u>I</u>
Tare Weight (g)	<u>10.42</u>
Weight Total Sample (g) (Air-dried, not sieved)	<u>148.83</u>
Weight Hydro Test Sample (g)	<u>72.32</u>
Tare + Oven Dry Plus #10 (g)	<u>10.53</u>
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	<u>55.68</u>

Date Set Up 8/23/06
 Technician: fm
 Hydro Beaker: 21
 Hydro #: 115170
 Calgon Batch #: 141

8/28/06					
	TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
Place	11:25:00	START			
	11:26:00	1	<u>24</u>	<u>4.5</u>	<u>23</u>
	11:27:00	2	<u>22</u>	<u>4.5</u>	<u>23</u>
	11:30:00	5	<u>21</u>	<u>4.5</u>	<u>23</u>
	11:40:00	15	<u>18.5</u>	<u>4.5</u>	<u>23</u>
	11:55:00	30	<u>16</u>	<u>4.5</u>	<u>23</u>
	12:25:00	60	<u>13.5</u>	<u>4.5</u>	<u>23</u>
	15:35:00	250	<u>10.5</u>	<u>4.5</u>	<u>23</u>
	11:25:00	1440	<u>8.5</u>	<u>4.5</u>	<u>23</u>

Sieve Analysis
 Date Sieved: 9/31/06 Technician: gs Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	<u>10.46</u>
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	<u>10.51</u>
#20	<u>10.93</u>
#40	<u>19.20</u>
#60	<u>41.55</u>
#100	<u>49.10</u>
#200	<u>55.14</u>
Pan	<u>55.87</u>