Semivolatile Organics
QC Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ35

prepared
by

Analytical Resources, Inc.

Data File: /chem1/nt6.i/20060705.b/tune.b/0250705.d

Page 2

Date : 05-JUL-2006 10:16

Client ID:

Instrument: nt6.i

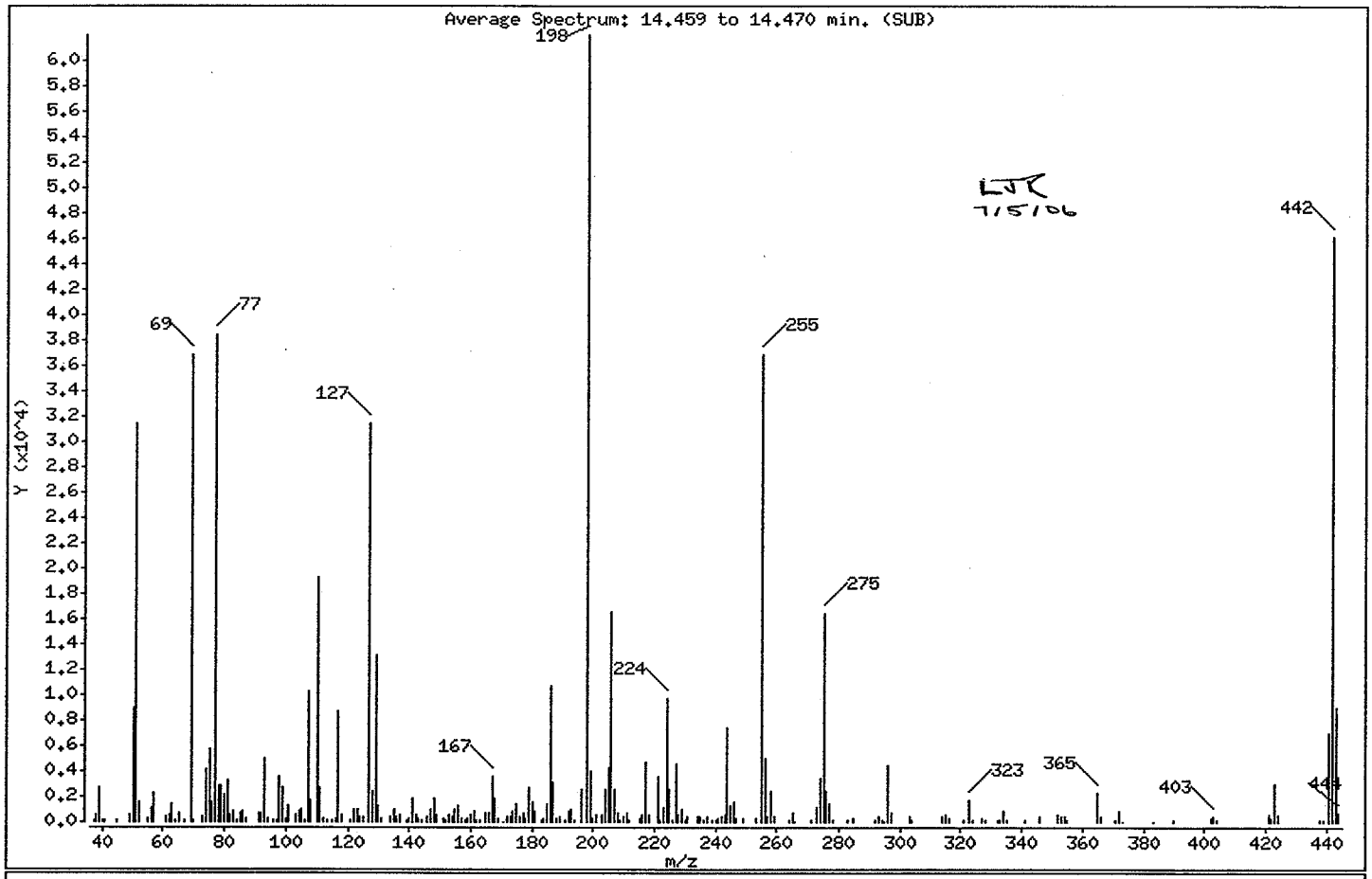
Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

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	50.77
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	59.54
70	Less than 2.00% of mass 69	0.33 (0.56)
127	25.00 - 75.00% of mass 198	50.66
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.36
275	10.00 - 30.00% of mass 198	26.60
365	Greater than 0.75% of mass 198	3.73
441	Present, but less than mass 443	11.32
442	40.00 - 110.00% of mass 198	74.52
443	15.00 - 24.00% of mass 442	14.43 (19.37)

Data File: /chem1/nt6.i/20060705.b/tune.b/0250705.d

Date : 05-JUL-2006 10:16

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: 0250705.d

Spectrum: Average Spectrum: 14.459 to 14.470 min. (SUB)

Location of Maximum: 198.00

Number of points: 232

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	196	118.00	554	188.00	289	271.00	78
38.00	604	121.00	77	189.00	488	273.00	1191
39.00	2711	122.00	991	191.00	196	274.00	3389
40.00	148	123.00	1020	192.00	808	275.00	16472
41.00	190	124.00	453	193.00	981	276.00	2385
45.00	72	125.00	358	194.00	87	277.00	1379
49.00	564	127.00	31384	196.00	2502	278.00	118
50.00	8950	128.00	2494	198.00	61952	283.00	87
51.00	31448	129.00	13156	199.00	3938	285.00	317
52.00	1622	130.00	1258	200.00	317	292.00	77
55.00	283	131.00	225	201.00	574	293.00	427
56.00	1108	134.00	480	203.00	576	294.00	75
57.00	2273	135.00	979	204.00	2565	295.00	70
61.00	484	136.00	390	205.00	4253	296.00	4442
62.00	513	137.00	578	206.00	16544	297.00	657
63.00	1471	139.00	112	207.00	2573	303.00	454
64.00	178	140.00	340	208.00	745	304.00	196
65.00	647	141.00	1818	209.00	78	314.00	362
67.00	72	142.00	512	210.00	469	315.00	594
69.00	36888	143.00	353	211.00	760	316.00	286
70.00	205	144.00	79	212.00	135	321.00	79
73.00	391	146.00	404	215.00	321	323.00	1659
74.00	4168	147.00	978	216.00	521	324.00	189
75.00	5689	148.00	1895	217.00	4653	327.00	220
76.00	1601	149.00	507	218.00	543	328.00	75
77.00	38448	151.00	271	221.00	3526	332.00	90
78.00	2869	152.00	160	222.00	109	333.00	145
79.00	2879	153.00	628	223.00	1160	334.00	915
80.00	2194	154.00	384	224.00	9742	335.00	84
81.00	3307	155.00	971	225.00	2518	341.00	105
82.00	629	156.00	1291	226.00	189	346.00	395
83.00	823	157.00	313	227.00	4541	352.00	565
84.00	189	158.00	172	228.00	622	353.00	393
85.00	645	159.00	221	229.00	952	354.00	386
86.00	841	160.00	536	230.00	93	355.00	83

Data File: /chem1/nt6.i/20060705.b/tune.b/0250705.d

Date : 05-JUL-2006 10:16

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: 0250705.d

Spectrum: Average Spectrum: 14.459 to 14.470 min. (SUB)

Location of Maximum: 198.00

Number of points: 232

m/z	Y	m/z	Y	m/z	Y	m/z	Y
87.00	303	161.00	853	231.00	435	365.00	2310
91.00	686	162.00	146	234.00	396	366.00	361
92.00	773	163.00	79	235.00	459	371.00	85
93.00	4935	165.00	731	236.00	197	372.00	830
94.00	337	166.00	710	237.00	374	373.00	69
96.00	90	167.00	3504	239.00	192	383.00	71
97.00	77	168.00	1805	240.00	83	390.00	81
98.00	3507	169.00	308	241.00	243	402.00	252
99.00	2686	171.00	69	242.00	452	403.00	407
100.00	292	172.00	380	243.00	607	404.00	175
101.00	1350	173.00	426	244.00	7403	421.00	554
103.00	641	174.00	797	245.00	1258	422.00	250
104.00	918	175.00	1421	246.00	1514	423.00	2953
105.00	1030	176.00	394	247.00	333	424.00	596
106.00	109	177.00	691	249.00	301	438.00	181
107.00	10276	178.00	290	253.00	256	439.00	199
108.00	1675	179.00	2673	255.00	36880	441.00	7012
110.00	19256	180.00	1587	256.00	4967	442.00	46168
111.00	2649	181.00	804	257.00	493	443.00	8942
112.00	304	183.00	84	258.00	2453	444.00	779
113.00	76	184.00	263	259.00	474		
115.00	90	185.00	1360	264.00	88		
116.00	286	186.00	10663	265.00	732		
117.00	8714	187.00	3170	266.00	70		

Data File: /chem1/nt6.i/20060705.b/tune.b/0250705.d

Date : 05-JUL-2006 10:16

Client ID:

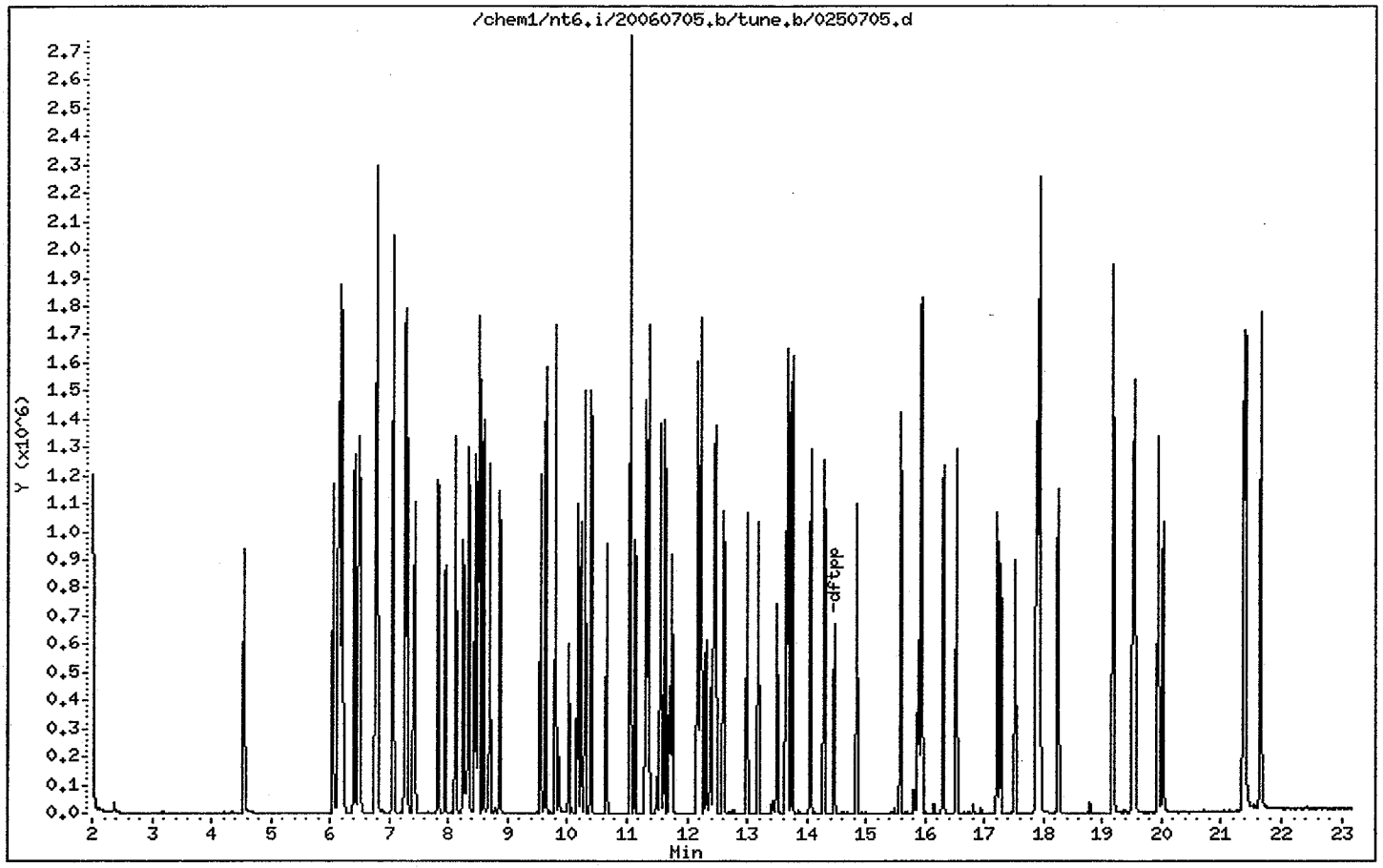
Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32



Data File: /chem1/nt6.i/20060807.b/tune.b/cc0807.d

Date : 07-AUG-2006 09:54

Client ID:

Instrument: nt6.i

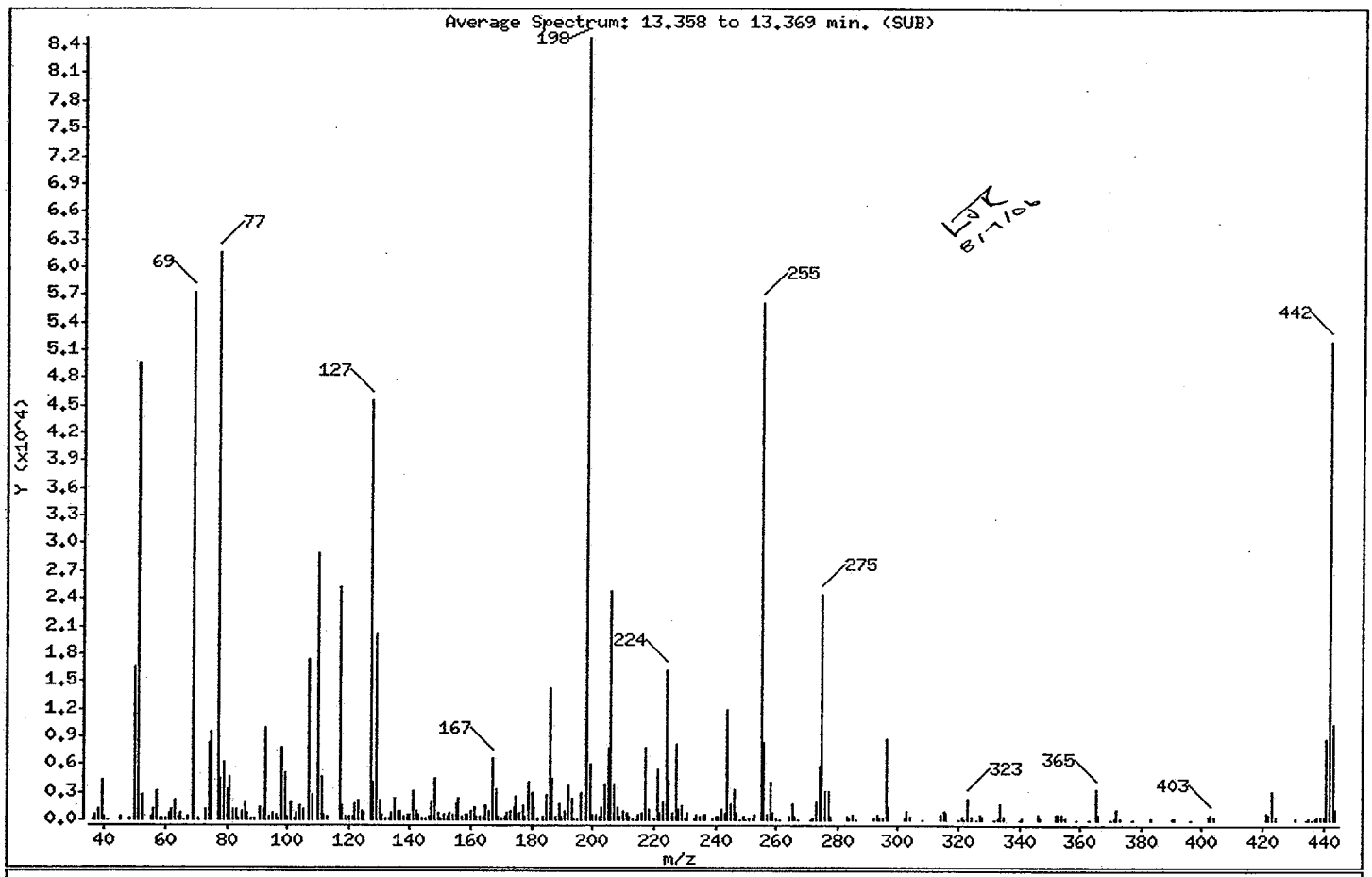
Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

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	58.57
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	67.47
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	53.59
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.16
275	10.00 - 30.00% of mass 198	28.75
365	Greater than 0.75% of mass 198	4.02
441	Present, but less than mass 443	10.29
442	40.00 - 110.00% of mass 198	61.24
443	15.00 - 24.00% of mass 442	12.11 (19.78)

Data File: /chem1/nt6.i/20060807.b/tune.b/cc0807.d

Date : 07-AUG-2006 09:54

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0807.d

Spectrum: Average Spectrum: 13.358 to 13.369 min. (SUB)

Location of Maximum: 198.00

Number of points: 282

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	239	125.00	783	199.00	6072	283.00	482
37.00	652	127.00	45440	200.00	648	284.00	197
38.00	1245	128.00	4124	201.00	610	285.00	576
39.00	4256	129.00	20216	202.00	383	286.00	90
40.00	378	130.00	2078	203.00	1274	292.00	113
41.00	9	131.00	501	204.00	3849	293.00	505
45.00	412	132.00	252	205.00	7757	294.00	118
48.00	138	133.00	104	206.00	24880	295.00	125
50.00	16680	134.00	749	207.00	3904	296.00	8813
51.00	49672	135.00	2290	208.00	1327	297.00	1343
52.00	2802	136.00	916	209.00	428	302.00	290
55.00	396	137.00	978	210.00	925	303.00	930
56.00	1262	138.00	446	211.00	858	304.00	314
57.00	3217	139.00	543	212.00	475	308.00	83
58.00	131	140.00	568	213.00	133	314.00	490
59.00	163	141.00	3105	214.00	75	315.00	901
60.00	207	142.00	938	215.00	497	316.00	765
61.00	755	143.00	627	216.00	777	320.00	86
62.00	1087	144.00	206	217.00	7821	321.00	344
63.00	2088	145.00	232	218.00	1206	322.00	85
64.00	419	146.00	480	220.00	136	323.00	2254
65.00	817	147.00	1923	221.00	5545	324.00	369
66.00	73	148.00	4427	222.00	717	326.00	68
67.00	409	149.00	860	223.00	1953	327.00	516
69.00	57208	150.00	219	224.00	16129	328.00	322
71.00	262	151.00	540	225.00	4303	332.00	90
73.00	1109	152.00	393	226.00	842	333.00	288
74.00	8381	153.00	859	227.00	8262	334.00	1704
75.00	9594	154.00	585	228.00	1085	335.00	384
77.00	61640	155.00	1855	229.00	1588	340.00	70
78.00	4517	156.00	2442	230.00	174	341.00	234
79.00	6209	157.00	356	231.00	743	346.00	493
80.00	3249	158.00	637	233.00	120	347.00	158
81.00	4653	159.00	623	234.00	497	352.00	594
82.00	1270	160.00	1019	235.00	397	353.00	601

Data File: /chem1/nt6.i/20060807.b/tune.b/cc0807.d

Date : 07-AUG-2006 09:54

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0807.d
Spectrum: Average Spectrum: 13.358 to 13.369 min. (SUB)
Location of Maximum: 198.00
Number of points: 282

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	1265	161.00	1359	236.00	593	354.00	583
84.00	151	162.00	426	237.00	534	355.00	191
85.00	949	163.00	444	239.00	246	359.00	90
86.00	1969	164.00	312	240.00	349	363.00	89
87.00	812	165.00	1543	241.00	447	365.00	3410
88.00	182	166.00	1047	242.00	1130	366.00	585
89.00	191	167.00	6613	243.00	699	370.00	75
91.00	1449	168.00	3329	244.00	11914	371.00	232
92.00	1268	169.00	446	245.00	1740	372.00	1158
93.00	10020	170.00	194	246.00	3384	373.00	287
94.00	467	171.00	348	247.00	750	377.00	67
95.00	832	172.00	726	248.00	79	383.00	171
96.00	672	173.00	911	249.00	455	390.00	185
97.00	185	174.00	1321	250.00	68	391.00	101
98.00	7789	175.00	2465	251.00	114	396.00	68
99.00	5003	176.00	841	252.00	98	402.00	488
100.00	405	177.00	1611	253.00	529	403.00	646
101.00	1942	178.00	470	255.00	56040	404.00	402
102.00	185	179.00	4080	256.00	8362	421.00	841
103.00	859	180.00	2913	257.00	634	422.00	669
104.00	1596	181.00	1423	258.00	4197	423.00	3163
105.00	1207	182.00	173	259.00	859	424.00	463
107.00	17384	184.00	371	260.00	187	431.00	101
108.00	2653	185.00	2699	261.00	70	434.00	74
110.00	28888	186.00	14356	264.00	339	435.00	212
111.00	4644	187.00	4578	265.00	1695	436.00	77
112.00	506	188.00	445	266.00	363	437.00	104
113.00	471	189.00	1749	267.00	96	438.00	466
117.00	25176	190.00	476	271.00	68	439.00	382
118.00	1477	191.00	953	272.00	132	440.00	413
119.00	430	192.00	3664	273.00	1998	441.00	8726
120.00	351	193.00	2272	274.00	5808	442.00	51928
121.00	351	194.00	231	275.00	24384	443.00	10271
122.00	1709	195.00	169	276.00	3223	444.00	1101
123.00	2092	196.00	2867	277.00	3045		

Data File: /chem1/nt6.i/20060807.b/tune.b/cc0807.d

Date : 07-AUG-2006 09:54

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0807.d

Spectrum: Average Spectrum: 13.358 to 13.369 min. (SUB)

Location of Maximum: 198.00

Number of points: 282

m/z	Y	m/z	Y	m/z	Y	m/z	Y
124.00	880	198.00	84800	278.00	464		

Data File: /chem1/nt6.i/20060807.b/tune.b/cc0807.d

Date : 07-AUG-2006 09:54

Client ID:

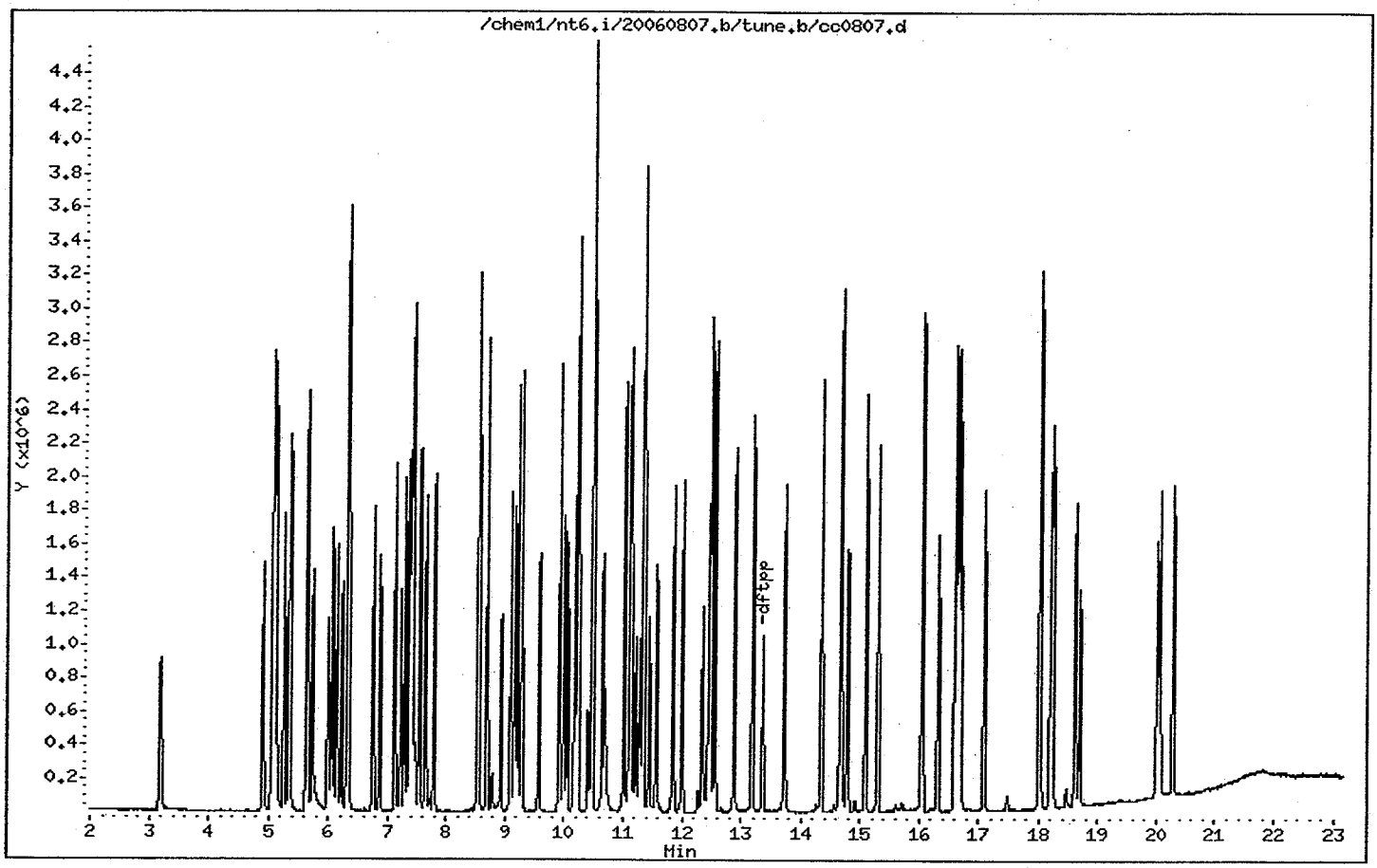
Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32



Data File: /chem1/nt6.i/20060808.b/tune.b/cc0808.d

Date : 08-AUG-2006 13:13

Client ID:

Instrument: nt6.i

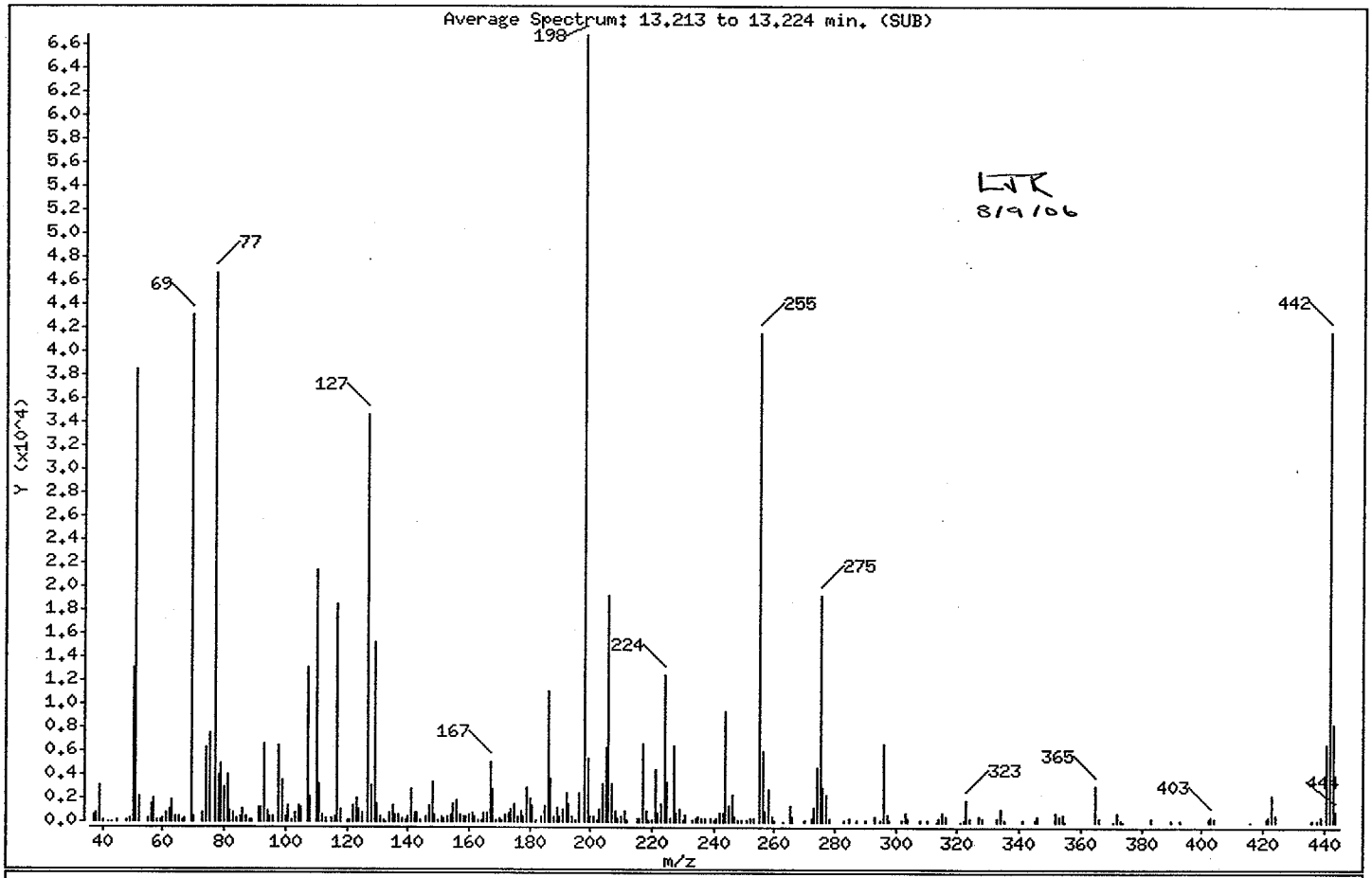
Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

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	57.69
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	64.52
70	Less than 2.00% of mass 69	0.78 (1.22)
127	25.00 - 75.00% of mass 198	51.77
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	8.05
275	10.00 - 30.00% of mass 198	28.88
365	Greater than 0.75% of mass 198	4.54
441	Present, but less than mass 443	9.90
442	40.00 - 110.00% of mass 198	62.47
443	15.00 - 24.00% of mass 442	12.44 (19.92)

Date : 08-AUG-2006 13:13

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0808.d
Spectrum: Average Spectrum: 13.213 to 13.224 min. (SUB)
Location of Maximum: 198.00
Number of points: 267

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	630	120.00	83	190.00	395	270.00	104
38.00	741	121.00	164	191.00	1016	272.00	295
39.00	3139	122.00	1443	192.00	2442	273.00	1182
40.00	108	123.00	2017	193.00	1508	274.00	4667
42.00	67	124.00	1004	194.00	434	275.00	19280
43.00	54	125.00	784	195.00	82	276.00	2870
45.00	170	127.00	34568	196.00	2511	277.00	2286
48.00	121	128.00	3139	198.00	66768	278.00	369
49.00	317	129.00	15259	199.00	5374	283.00	201
50.00	13043	130.00	1602	200.00	406	285.00	249
51.00	38520	131.00	418	201.00	398	287.00	80
52.00	2113	132.00	100	202.00	152	290.00	136
55.00	231	133.00	70	203.00	1037	293.00	425
56.00	1514	134.00	750	204.00	3266	295.00	164
57.00	1924	135.00	1380	205.00	6270	296.00	6574
58.00	189	136.00	552	206.00	19168	297.00	681
59.00	101	137.00	650	207.00	3296	298.00	79
60.00	349	138.00	300	208.00	946	302.00	81
61.00	751	139.00	161	209.00	291	303.00	795
62.00	1104	140.00	406	210.00	533	304.00	291
63.00	1788	141.00	2748	211.00	937	308.00	170
64.00	473	142.00	712	212.00	194	310.00	91
65.00	456	143.00	729	215.00	305	313.00	70
66.00	84	144.00	142	216.00	289	314.00	231
67.00	291	146.00	403	217.00	6559	315.00	735
69.00	43080	147.00	1330	218.00	916	316.00	514
70.00	524	148.00	3365	219.00	163	321.00	76
73.00	766	149.00	661	220.00	110	322.00	121
74.00	6260	150.00	97	221.00	4471	323.00	1837
75.00	7477	151.00	517	222.00	697	324.00	271
77.00	46624	152.00	328	223.00	1473	327.00	503
78.00	3956	153.00	533	224.00	12451	328.00	365
79.00	4958	154.00	577	225.00	3374	333.00	293
80.00	2898	155.00	1524	226.00	308	334.00	1077
81.00	4011	156.00	1863	227.00	6407	335.00	126

Data File: /chem1/nt6.i/20060808.b/tune.b/cc0808.d

Date : 08-AUG-2006 13:13

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0808.d

Spectrum: Average Spectrum: 13.213 to 13.224 min. (SUB)

Location of Maximum: 198.00

Number of points: 267

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	943	157.00	668	228.00	763	341.00	161
83.00	756	158.00	471	229.00	1136	345.00	91
84.00	334	159.00	393	230.00	227	346.00	409
85.00	505	160.00	608	231.00	573	352.00	746
86.00	1101	161.00	752	233.00	146	353.00	447
87.00	455	162.00	455	234.00	348	354.00	615
88.00	212	163.00	122	235.00	513	355.00	76
89.00	227	164.00	195	236.00	237	365.00	3033
91.00	1236	165.00	840	237.00	243	366.00	360
92.00	1294	166.00	701	239.00	354	371.00	69
93.00	6673	167.00	5046	240.00	147	372.00	814
94.00	927	168.00	2717	241.00	316	373.00	108
95.00	503	169.00	217	242.00	788	374.00	74
96.00	426	170.00	246	243.00	727	383.00	289
98.00	6400	171.00	230	244.00	9359	390.00	90
99.00	3596	172.00	544	245.00	1415	393.00	91
100.00	405	173.00	766	246.00	2343	402.00	283
101.00	1379	174.00	1070	247.00	439	403.00	417
102.00	201	175.00	1530	248.00	80	404.00	250
103.00	732	176.00	511	249.00	140	416.00	68
104.00	1332	177.00	957	251.00	81	421.00	351
105.00	1224	178.00	436	252.00	323	422.00	476
107.00	13116	179.00	2944	253.00	345	423.00	2318
108.00	2186	180.00	2028	255.00	41520	424.00	605
110.00	21448	181.00	1336	256.00	5968	436.00	83
111.00	3268	182.00	93	257.00	889	438.00	167
112.00	616	184.00	442	258.00	2802	439.00	448
113.00	269	185.00	1373	259.00	489	441.00	6613
115.00	369	186.00	11150	260.00	105	442.00	41712
116.00	468	187.00	3626	263.00	75	443.00	8308
117.00	18504	188.00	474	265.00	1388	444.00	889
118.00	1075	189.00	1284	266.00	451		

Data File: /chem1/nt6.i/20060808.b/tune.b/cc0808.d

Date : 08-AUG-2006 13:13

Client ID:

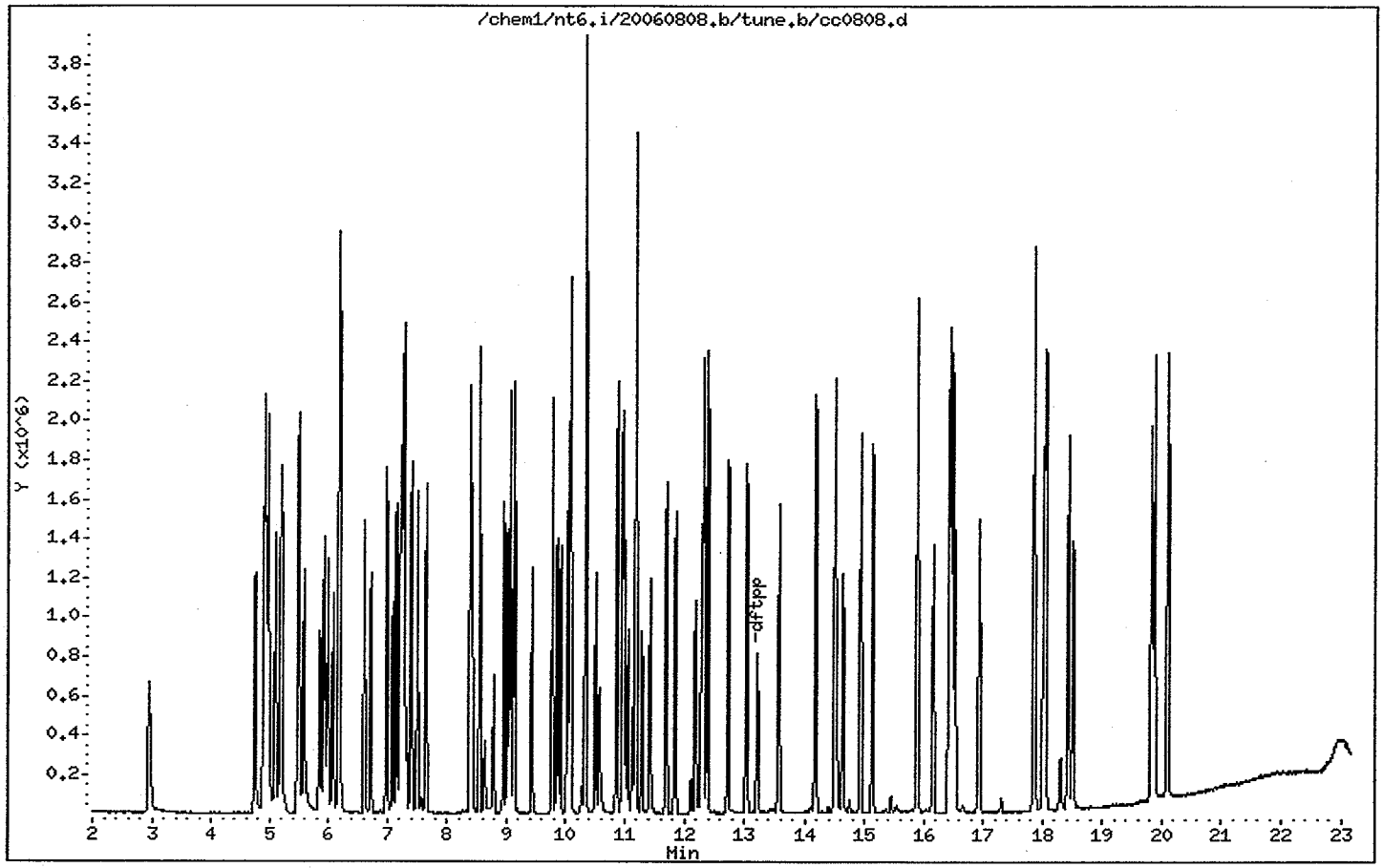
Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32



Data File: /chem1/nt6.i/20060809.b/tune.b/cc0809.d

Date : 09-AUG-2006 09:22

Client ID:

Instrument: nt6.i

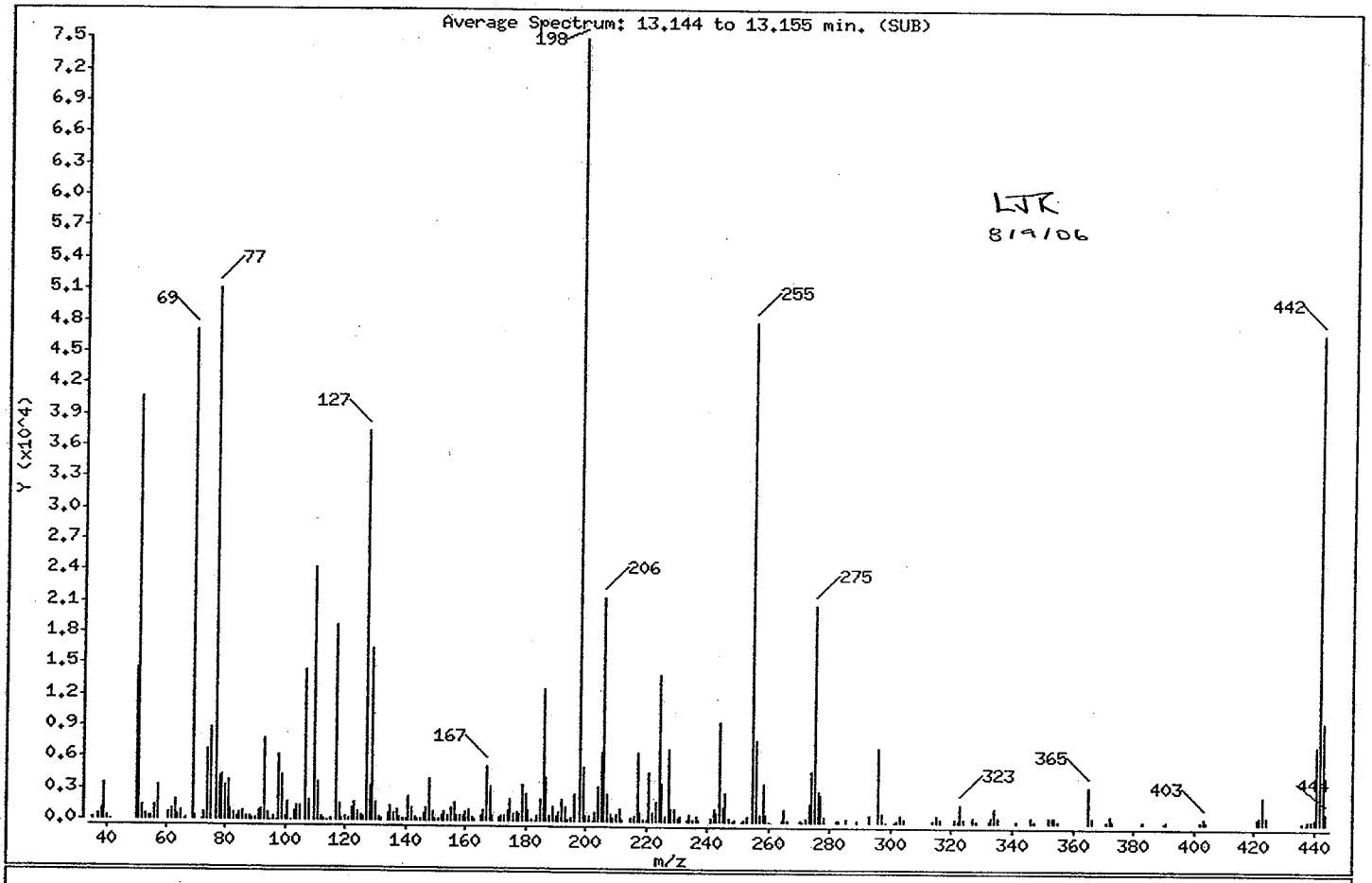
Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

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	54.11
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	62.67
70	Less than 2.00% of mass 69	0.44 (0.70)
127	25.00 - 75.00% of mass 198	49.79
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.94
275	10.00 - 30.00% of mass 198	27.65
365	Greater than 0.75% of mass 198	4.72
441	Present, but less than mass 443	9.93
442	40.00 - 110.00% of mass 198	62.61
443	15.00 - 24.00% of mass 442	12.80 (20.45)

Data File: /chem1/nt6.i/20060809.b/tune.b/cc0809.d

Date : 09-AUG-2006 09:22

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0809.d

Spectrum: Average Spectrum: 13.144 to 13.155 min. (SUB)

Location of Maximum: 198.00

Number of points: 264

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	90	120.00	276	190.00	572	272.00	317
37.00	435	121.00	181	191.00	854	273.00	1696
38.00	1113	122.00	1192	192.00	2048	274.00	4876
39.00	3374	123.00	1722	193.00	1351	275.00	20752
40.00	408	124.00	791	194.00	218	276.00	3000
41.00	41	125.00	460	195.00	284	277.00	2514
50.00	14601	126.00	292	196.00	2513	278.00	522
51.00	40624	127.00	37376	198.00	75072	282.00	94
52.00	1449	128.00	3327	199.00	5212	283.00	152
53.00	445	129.00	16440	200.00	571	285.00	423
54.00	344	130.00	1692	201.00	493	289.00	173
55.00	264	131.00	305	202.00	86	293.00	632
56.00	1397	132.00	164	203.00	844	296.00	7176
57.00	3260	134.00	715	204.00	3232	297.00	886
61.00	716	135.00	1374	205.00	6645	298.00	83
62.00	1004	136.00	649	206.00	21472	301.00	68
63.00	1848	137.00	991	207.00	2603	302.00	92
64.00	502	138.00	384	208.00	689	303.00	736
65.00	910	139.00	216	209.00	404	304.00	284
66.00	42	140.00	172	210.00	680	314.00	194
67.00	172	141.00	2318	211.00	1229	315.00	738
69.00	47048	142.00	1152	212.00	152	316.00	390
70.00	329	143.00	373	215.00	321	321.00	353
72.00	68	144.00	147	216.00	551	322.00	186
73.00	677	145.00	144	217.00	6550	323.00	1712
74.00	6680	146.00	606	218.00	866	324.00	372
75.00	8766	147.00	1231	219.00	151	327.00	446
77.00	51096	148.00	3984	220.00	113	328.00	224
78.00	4207	149.00	871	221.00	4745	332.00	110
79.00	4358	150.00	167	222.00	935	333.00	472
80.00	3244	151.00	215	223.00	1924	334.00	1337
81.00	3748	152.00	461	224.00	14003	335.00	490
82.00	959	153.00	835	225.00	3672	341.00	235
83.00	650	154.00	538	226.00	504	346.00	578
84.00	265	155.00	1216	227.00	6854	347.00	90

Data File: /chem1/nt6.i/20060809.b/tune.b/cc0809.d

Date : 09-AUG-2006 09:22

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc0809.d

Spectrum: Average Spectrum: 13.144 to 13.155 min. (SUB)

Location of Maximum: 198.00

Number of points: 264

m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	648	156.00	1670	228.00	1161	352.00	509
86.00	936	157.00	484	229.00	1224	353.00	500
87.00	346	158.00	501	230.00	405	354.00	533
88.00	405	159.00	454	231.00	505	355.00	90
89.00	104	160.00	835	233.00	102	365.00	3545
90.00	175	161.00	1021	234.00	614	366.00	510
91.00	923	162.00	418	235.00	114	371.00	255
92.00	1024	163.00	91	236.00	552	372.00	727
93.00	7818	165.00	570	237.00	234	373.00	208
94.00	621	166.00	1108	241.00	261	383.00	97
95.00	17	167.00	5270	242.00	1179	390.00	85
96.00	331	168.00	3215	243.00	833	391.00	124
97.00	9	169.00	599	244.00	9514	402.00	216
98.00	6306	171.00	323	245.00	1318	403.00	579
99.00	4358	172.00	469	246.00	2807	404.00	123
100.00	388	173.00	466	247.00	383	421.00	475
101.00	1764	174.00	999	248.00	80	422.00	633
102.00	86	175.00	2084	249.00	95	423.00	2512
103.00	824	176.00	714	251.00	85	424.00	643
104.00	1349	177.00	780	252.00	176	436.00	150
105.00	1298	178.00	614	253.00	483	437.00	74
107.00	14370	179.00	3392	255.00	47976	438.00	346
108.00	1873	180.00	2510	256.00	7722	439.00	347
110.00	24208	181.00	1113	257.00	762	440.00	459
111.00	3620	182.00	173	258.00	3662	441.00	7455
112.00	414	183.00	74	259.00	723	442.00	47000
113.00	89	184.00	598	260.00	84	443.00	9611
114.00	69	185.00	2113	264.00	97	444.00	1022
115.00	147	186.00	12612	265.00	1265		
117.00	18744	187.00	4180	266.00	194		
118.00	1627	188.00	534	270.00	198		
119.00	228	189.00	1360	271.00	81		

Data File: /chem1/nt6.i/20060809.b/tune.b/cc0809.d

Date : 09-AUG-2006 09:22

Client ID:

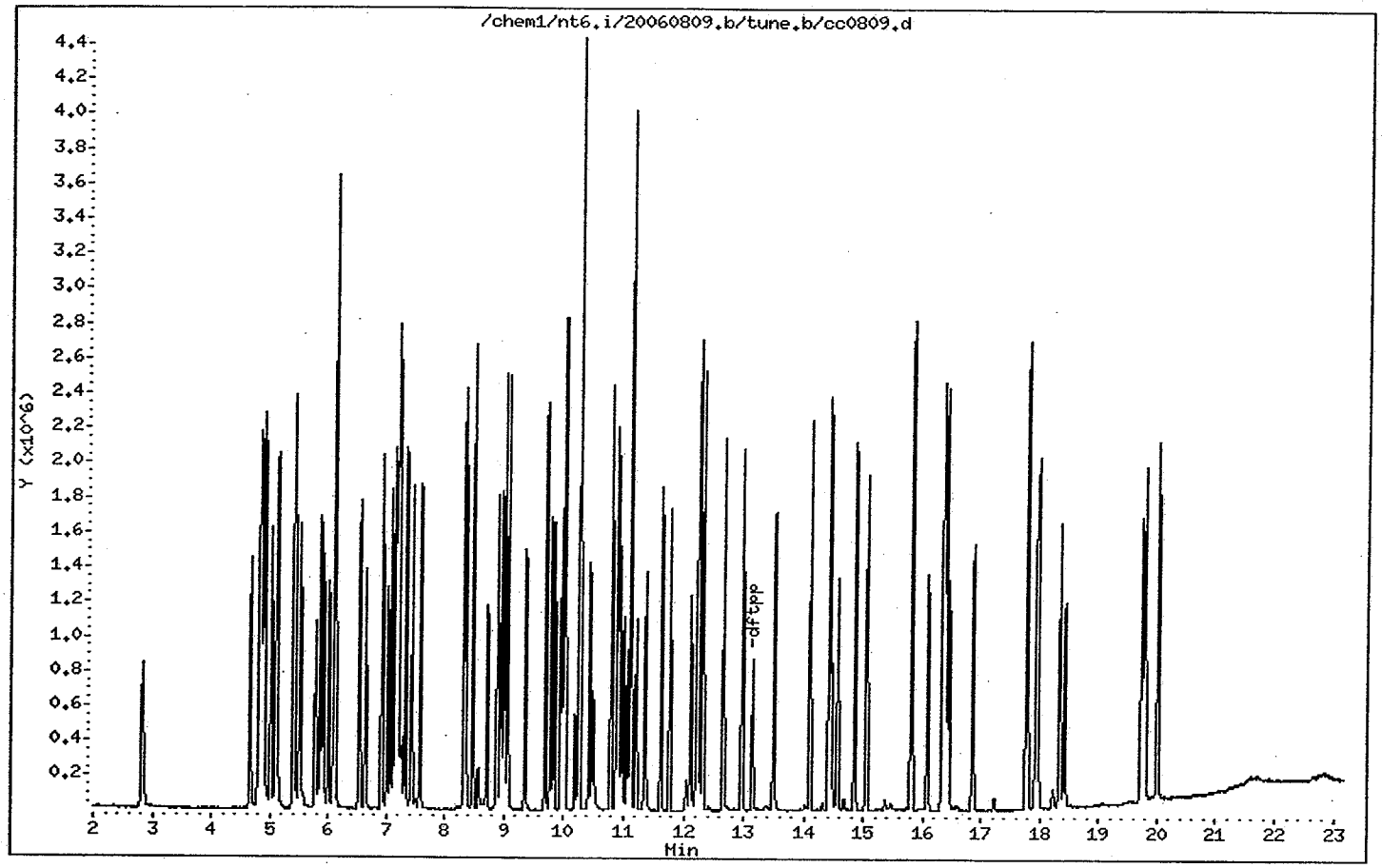
Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: MB-073106**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-073106
LIMS ID: 06-12971
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 07/31/06
Date Analyzed: 08/07/06 10:25
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**10 J**
117-84-0	Di-n-Octyl phthalate	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	71.6%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20060807.b/jq35mb.d
Lab Smp Id: JQ35MBS1 Client Smp ID: JQ35MBS1
Inj Date : 07-AUG-2006 10:25
Operator : LJR Inst ID: nt6.i
Smp Info : JQ35MBS1
Misc Info : 06-12971
Comment : 1ul Injection
Method : /chem1/nt6.i/20060807.b/SW846.m
Meth Date : 09-Aug-2006 11:13 jeff Quant Type: ISTD
Cal Date : 19-JUL-2006 17:54 Cal File: 0100719d.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDAMBLCS.sub
Target Version: 3.50

LJK 8/9/06

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	50.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	1 2-Fluorophenol	112	3.213	3.192	(0.602)	459927	22.6498	453.0(M)
$	2 Phenol-d5	99	5.109	5.115	(0.958)	596936	24.2615	485.2(M)
	3 Phenol	94	Compound Not Detected.					
$	5 2-Chlorophenol-d4	132	5.056	5.056	(0.948)	462861	22.1864	443.7(M)
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	5.334	5.340	(1.000)	275186	20.0000	(M)
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	5.633	5.639	(1.056)	163679	12.1708	243.4
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	6.306	6.317	(0.853)	408560	15.7527	315.1
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	7.391	7.396	(1.000)	958062	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	9.207	9.213	(0.905)	569173	12.6678	253.4
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	10.174	10.180	(1.000)	601750	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	11.434	11.440	(1.124)	131812	22.7800	455.6
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	12.450	12.455	(1.000)	928155	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63	Di-n-butylphthalate	149	Compound Not Detected.					
64	Fluoranthene	202	Compound Not Detected.					
65	Pyrene	202	Compound Not Detected.					
$ 66	Terphenyl-d14	244	15.094	15.094	(0.909)	752103	17.8749	357.5
67	Butylbenzylphthalate	149	Compound Not Detected.					
68	Benzo(a)anthracene	228	Compound Not Detected.					
* 69	Chrysene-d12	240	16.611	16.622	(1.000)	794537	20.0000	
70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71	Chrysene	228	Compound Not Detected.					
72	bis(2-Ethylhexyl)phthalate	149	17.086	17.092	(0.949)	15560	0.52435 J	10.49(MH)
* 134	Di-n-octylphthalate-d4	153	18.005	18.011	(1.000)	1175278	20.0000	
73	Di-n-octylphthalate	149	Compound Not Detected.					
74	Benzo(b)fluoranthene	252	Compound Not Detected.					
75	Benzo(k)fluoranthene	252	Compound Not Detected.					
76	Benzo(a)pyrene	252	Compound Not Detected.					
* 77	Perylene-d12	264	18.689	18.695	(1.000)	654960	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	141	Compound Not Detected.					
111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Reported 105 8/11/06

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: jq35mb.d
Lab Smp Id: JQ35MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR
Method File: /chem1/nt6.i/20060807.b/SW846.m
Misc Info: 06-12971

Calibration Date: 07-AUG-2006
Calibration Time: 09:54
Client Smp ID: JQ35MBS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	318996	159498	637992	275186	-13.73
27 Naphthalene-d8	1113586	556793	2227172	958062	-13.97
42 Acenaphthene-d10	652908	326454	1305816	601750	-7.84
59 Phenanthrene-d10	1012561	506280	2025122	928155	-8.34
69 Chrysene-d12	948800	474400	1897600	794537	-16.26
134 Di-n-octylphthala	1381183	690592	2762366	1175278	-14.91
77 Perylene-d12	760208	380104	1520416	654960	-13.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.34	4.84	5.84	5.33	-0.11
27 Naphthalene-d8	7.40	6.90	7.90	7.39	-0.08
42 Acenaphthene-d10	10.18	9.68	10.68	10.17	-0.06
59 Phenanthrene-d10	12.46	11.96	12.96	12.45	-0.05
69 Chrysene-d12	16.62	16.12	17.12	16.61	-0.07
134 Di-n-octylphthala	18.01	17.51	18.51	18.01	-0.03
77 Perylene-d12	18.69	18.19	19.19	18.69	-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

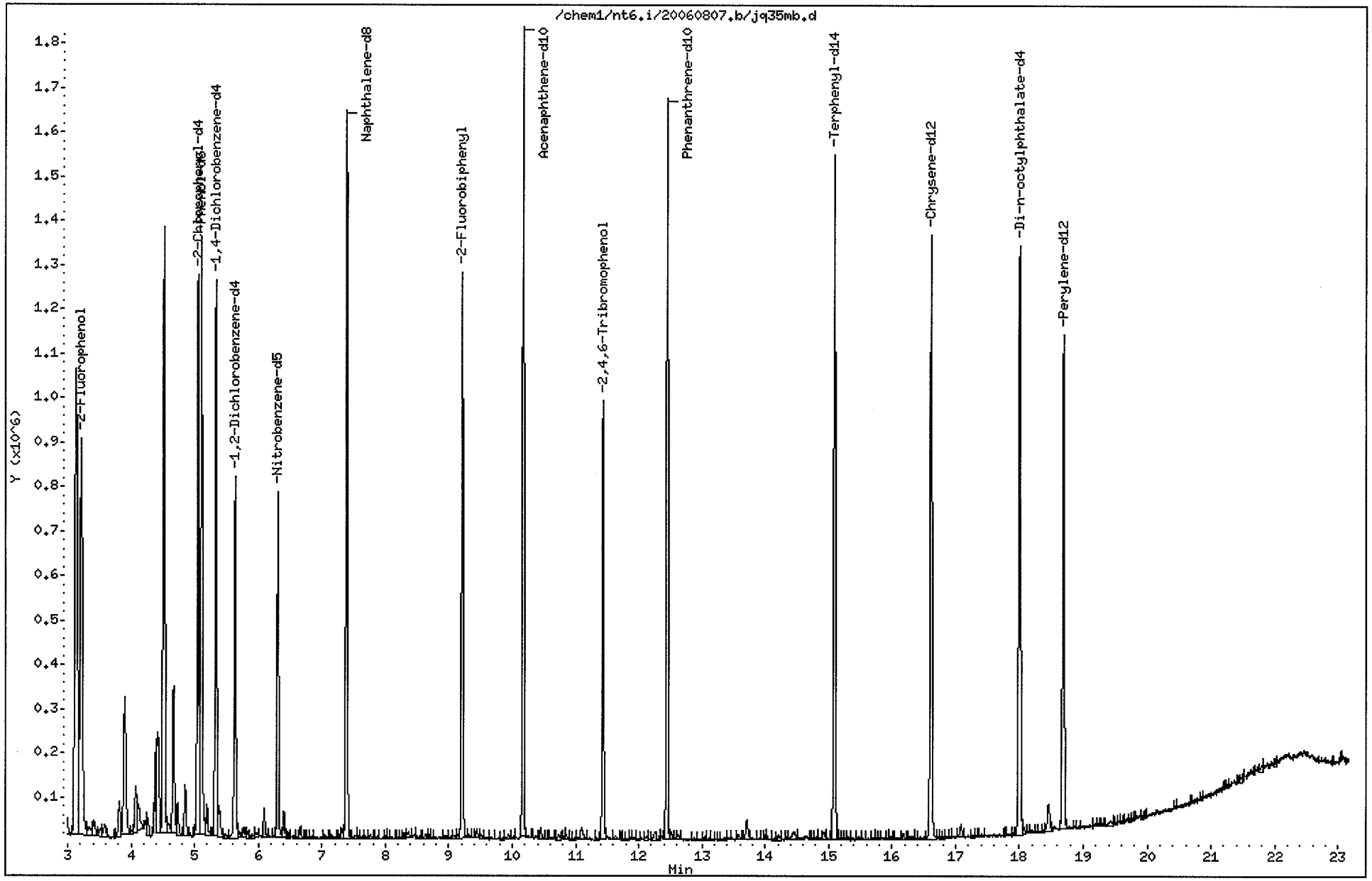
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ35MBS1
Level: LOW
Data Type: MS DATA
SpikeList File: SEPLCS.spk
Sublist File: PSDDAMBLCS.sub
Method File: /chem1/nt6.i/20060807.b/SW846.m
Misc Info: 06-12971

Client SDG: JQ35
Fraction: SV
Client Smp ID: JQ35MBS1
Operator: LJR
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	750.0	453.0	60.40	42-87
$ 2 Phenol-d5	750.0	485.2	64.70	47-87
$ 5 2-Chlorophenol-d4	750.0	443.7	59.16	47-86
$ 10 1,2-Dichlorobenzen	500.0	243.4	48.68	43-82
$ 18 Nitrobenzene-d5	500.0	315.1	63.01	46-87
$ 36 2-Fluorobiphenyl	500.0	253.4	50.67	46-88
$ 55 2,4,6-Tribromophen	750.0	455.6	60.75	40-97
$ 66 Terphenyl-d14	500.0	357.5	71.50	37-114

Data File: /chem1/nt6.i/20060807.b/jq35mb.d
Date : 07-AUG-2006 10:25
Client ID: JQ35MBS1
Sample Info: JQ35MBS1
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR
Column diameter: 0.32



Data File: /chem1/nt6.i/20060807.b/jq35mb.d

Date : 07-AUG-2006 10:25

Client ID: JQ35MBS1

Instrument: nt6.i

Sample Info: JQ35MBS1

Volume Injected (uL): 1.0

Operator: LJR

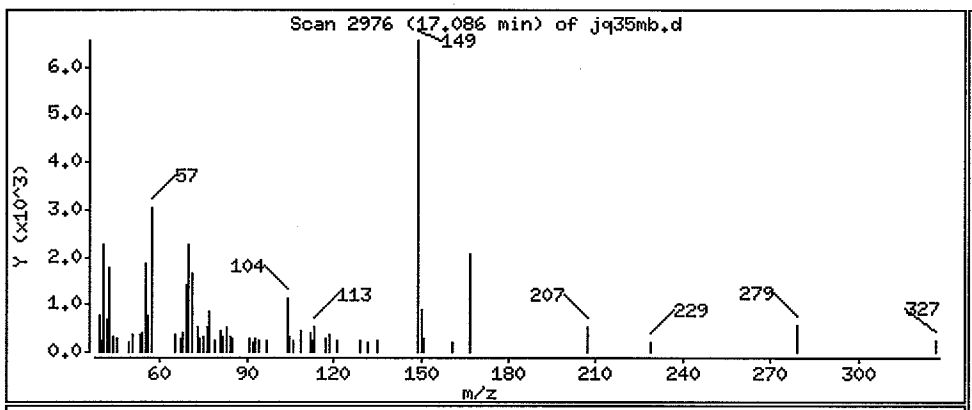
Column phase: ZB-5

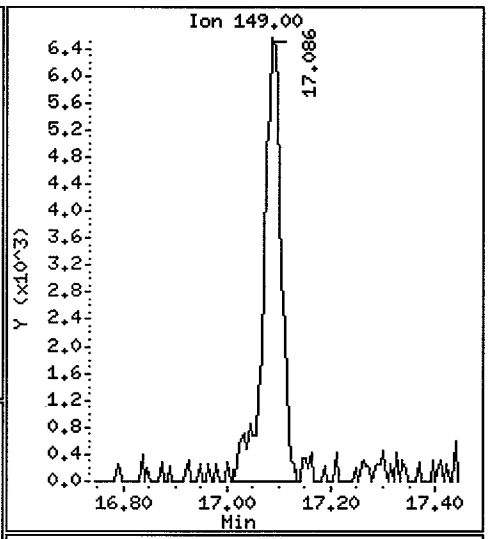
Column diameter: 0.32

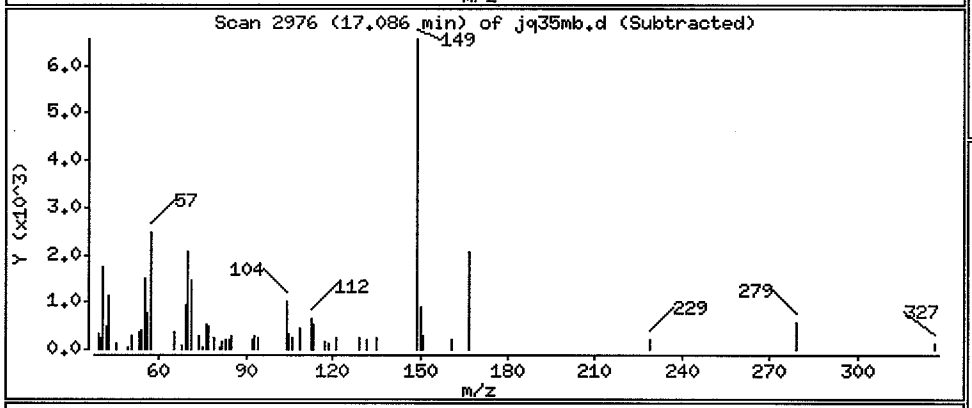
72 bis(2-Ethylhexyl)phthalate

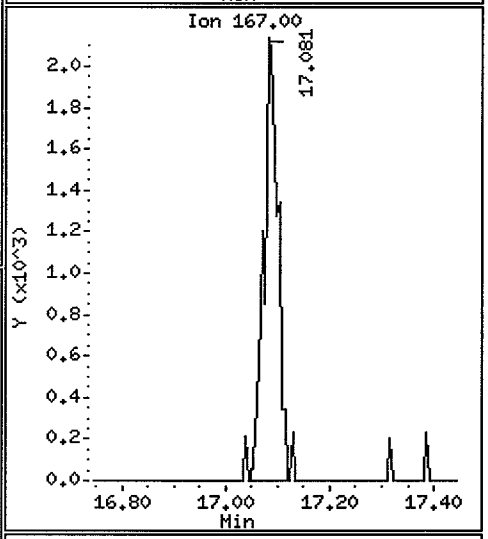
Concentration: 10.49 ug/kg

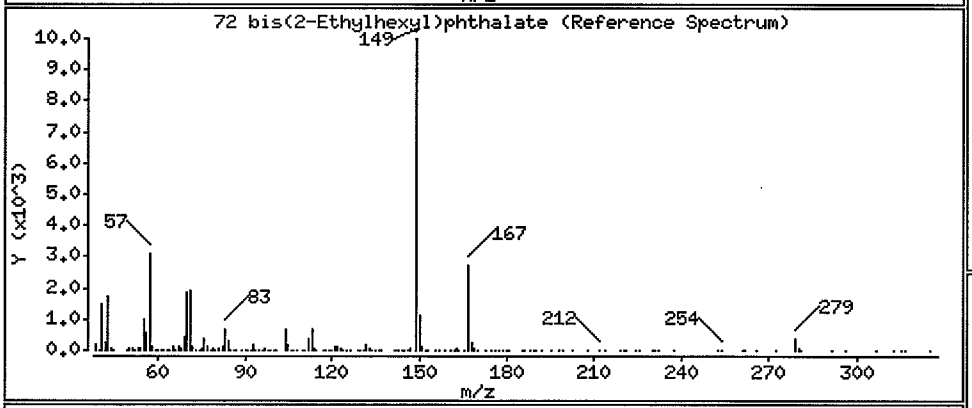
LMDL

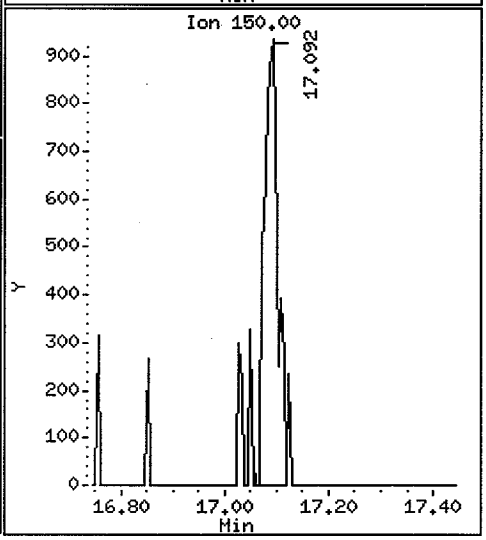


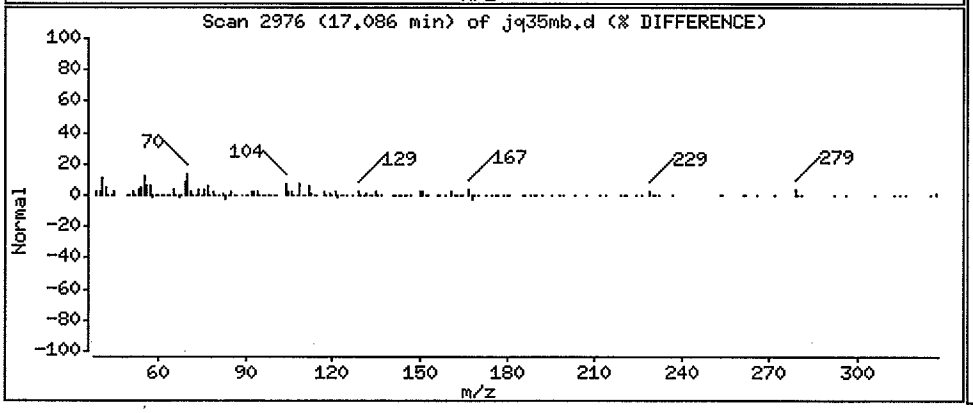




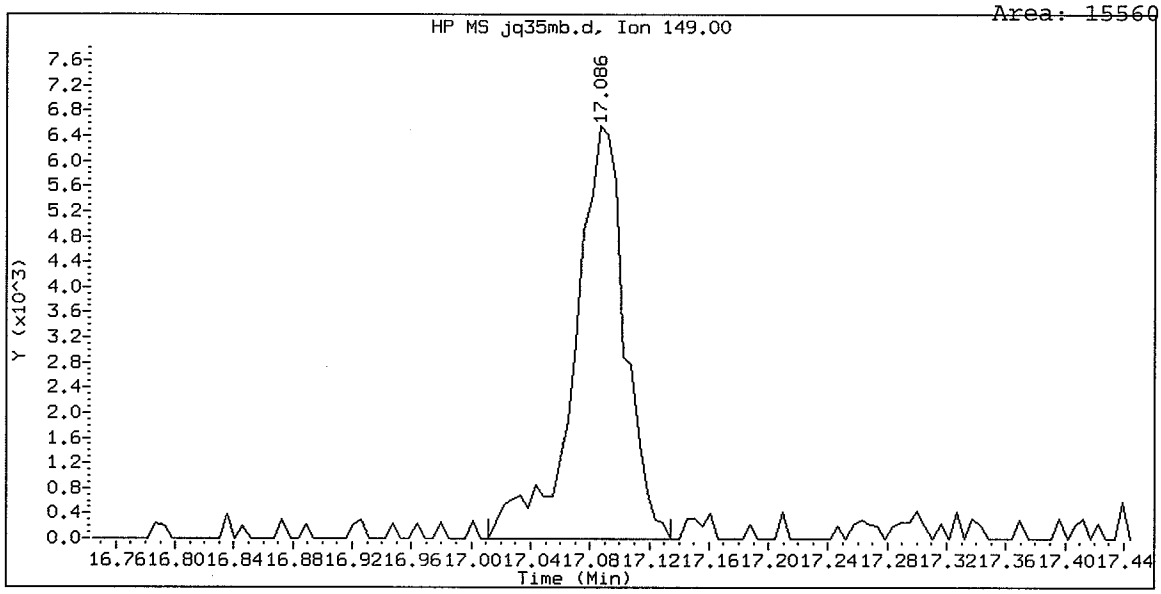


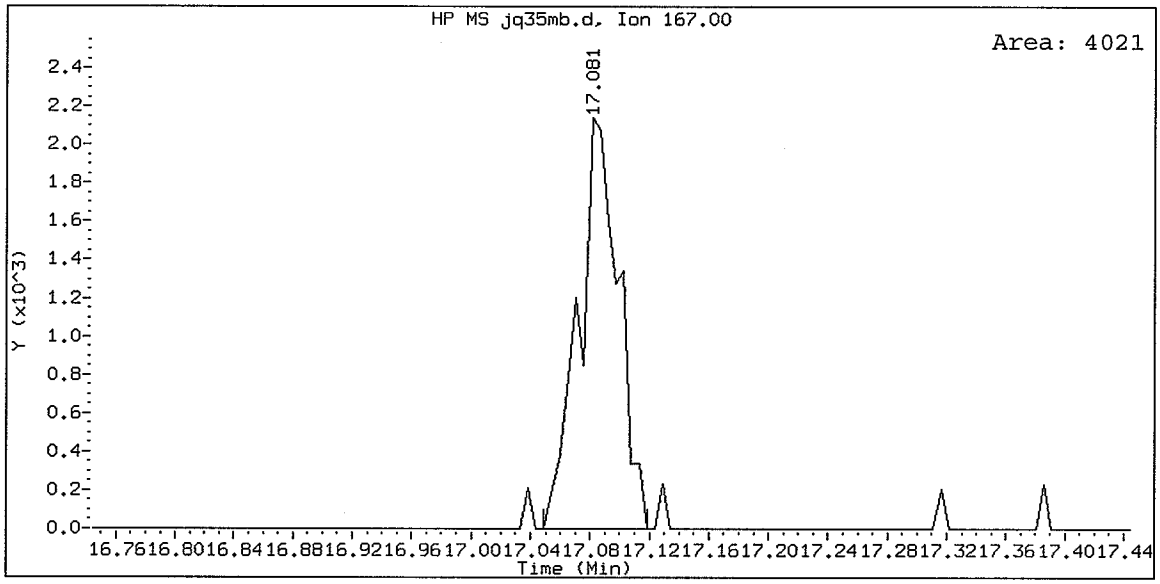


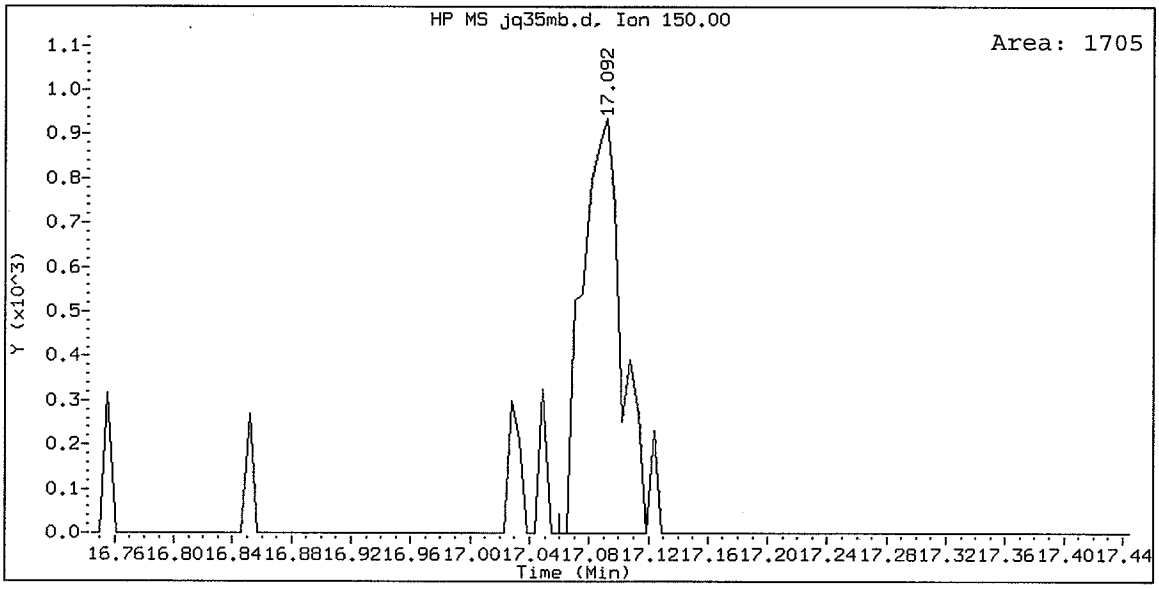




JQ35MBS1, /chem1/nt6.i/20060807.b/jq35mb.d
bis(2-Ethylhexyl)phthalate Amount: 0.52







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-08-C**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: JQ35P
LIMS ID: 06-12971
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/08/06 20:21
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 16.7%
pH: 6.0

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	59	< 59 U
84-66-2	Diethylphthalate	59	< 59 U
84-74-2	Di-n-Butylphthalate	59	< 59 U
85-68-7	Butylbenzylphthalate	59	< 59 U
117-81-7	bis(2-Ethylhexyl)phthalate	59	< 59 U
117-84-0	Di-n-Octyl phthalate	59	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	55.7%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20060808.b/jq35pms.d
Lab Smp Id: JQ35PMS Client Smp ID: T4-S3-08-C MS
Inj Date : 08-AUG-2006 20:21
Operator : LJR Inst ID: nt6.i
Smp Info : JQ35PMS,3
Misc Info : 06-12971
Comment : 1ul Injection
Method : /chem1/nt6.i/20060808.b/SW846.m
Meth Date : 10-Aug-2006 14:54 jeff Quant Type: ISTD
Cal Date : 19-JUL-2006 17:54 Cal File: 0100719d.d
Als bottle: 14 QC Sample: MS
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 8/10/06

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

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	61.00000	Weight of sample extracted (g)
M	16.70000	% Moisture

Cpnd Variable Local Compound Variable

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	1	2-Fluorophenol	112	2.973	2.956	(0.574)	131172	6.55395	386.9
$	2	Phenol-d5	99	4.977	4.965	(0.961)	166696	6.87389	405.8(M)
	3	Phenol	94	5.003	4.981	(0.966)	207218	6.85744	404.9
$	5	2-Chlorophenol-d4	132	4.896	4.896	(0.945)	148376	7.21583	426.0(M)
	4	Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6	2-Chlorophenol	128	4.918	4.922	(0.949)	143834	6.91774	408.4(M)
	7	1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8	1,4-Dichlorobenzene-d4	152	5.180	5.179	(1.000)	271231	20.0000	(M)
	9	1,4-Dichlorobenzene	146	5.201	5.205	(1.004)	106100	4.56823	269.7(M)
$	10	1,2-Dichlorobenzene-d4	152	5.479	5.478	(1.058)	58705	4.42883	261.5(M)
	12	1,2-Dichlorobenzene	146	Compound Not Detected.					
	11	Benzyl alcohol	108	Compound Not Detected.					
	14	2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
	13	2-Methylphenol	108	Compound Not Detected.					
	17	Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	6.061	6.076	(1.170)	96599	5.07633	299.7
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	6.157	6.167	(0.850)	139123	5.48519	323.8
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	7.210	7.214	(0.996)	86616	4.81302	284.2
*	27 Naphthalene-d8	136	7.242	7.246	(1.000)	936915	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	8.422	8.421	(1.163)	129544	7.34891	433.9
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	9.069	9.068	(0.905)	194889	4.79076	282.8
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	10.025	10.024	(1.000)	544822	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	10.068	10.072	(1.004)	168773	4.82411	284.8
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	10.548	10.558	(1.052)	53596	8.91287	526.2
	48 2,4-Dinitrotoluene	165	10.495	10.500	(1.047)	46056	4.19867	247.9
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	11.280	11.290	(1.125)	40181	7.66973	452.8
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	12.183	12.193	(0.991)	58513	8.81300	520.3
*	59 Phenanthrene-d10	188	12.290	12.294	(1.000)	828649	20.0000	
	60 Phenanthrene	178	12.317	12.327	(1.002)	74938	1.35846	80.20
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	63 Di-n-butylphthalate	149	Compound Not Detected.					
	64 Fluoranthene	202	14.176	14.180	(1.153)	206287	3.79291	223.9
	65 Pyrene	202	14.496	14.501	(0.882)	527431	6.75605	398.9
$	66 Terphenyl-d14	244	14.929	14.934	(0.908)	227806	4.64152	274.0
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	16.419	16.424	(0.999)	169571	2.42294	143.1
*	69 Chrysene-d12	240	16.441	16.445	(1.000)	926797	20.0000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	16.467	16.483	(1.002)	167392	2.40689	142.1
	72 bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
*	134 Di-n-octylphthalate-d4	153	17.846	17.850	(1.000)	1438826	20.0000	
	73 Di-n-octylphthalate	149	17.851	17.856	(1.000)	348050	5.06451	299.0
	74 Benzo(b)fluoranthene	252	18.011	18.021	(0.973)	217431	3.26180	192.6(M)
	75 Benzo(k)fluoranthene	252	18.027	18.048	(0.974)	149577	2.16997	128.1(M)
	76 Benzo(a)pyrene	252	18.417	18.427	(0.995)	188779	2.94235	173.7
*	77 Perylene-d12	264	18.508	18.507	(1.000)	1015346	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	19.812	19.827	(1.070)	136134	1.74412	103.0
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	20.084	20.099	(1.085)	407225	4.98245	294.2
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: jq35pms.d
Lab Smp Id: JQ35PMS
Analysis Type: SV
Quant Type: ISTD
Operator: LJR
Method File: /chem1/nt6.i/20060808.b/SW846.m
Misc Info: 06-12971

Calibration Date: 08-AUG-2006
Calibration Time: 13:13
Client Smp ID: T4-S3-08-C MS
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	284616	142308	569232	271231	-4.70
27 Naphthalene-d8	977404	488702	1954808	936915	-4.14
42 Acenaphthene-d10	544393	272196	1088786	544822	0.08
59 Phenanthrene-d10	824403	412202	1648806	828649	0.52
69 Chrysene-d12	813838	406919	1627676	926797	13.88
134 Di-n-octylphthala	1238353	619176	2476706	1438826	16.19
77 Perylene-d12	837816	418908	1675632	1015346	21.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.18	4.68	5.68	5.18	0.02
27 Naphthalene-d8	7.25	6.75	7.75	7.24	-0.06
42 Acenaphthene-d10	10.02	9.52	10.52	10.02	0.01
59 Phenanthrene-d10	12.29	11.79	12.79	12.29	-0.04
69 Chrysene-d12	16.45	15.95	16.95	16.44	-0.03
134 Di-n-octylphthala	17.85	17.35	18.35	17.85	-0.03
77 Perylene-d12	18.51	18.01	19.01	18.51	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.

RECOVERY REPORT

Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ35PMS
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDAMS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20060808.b/SW846.m
Misc Info: 06-12971

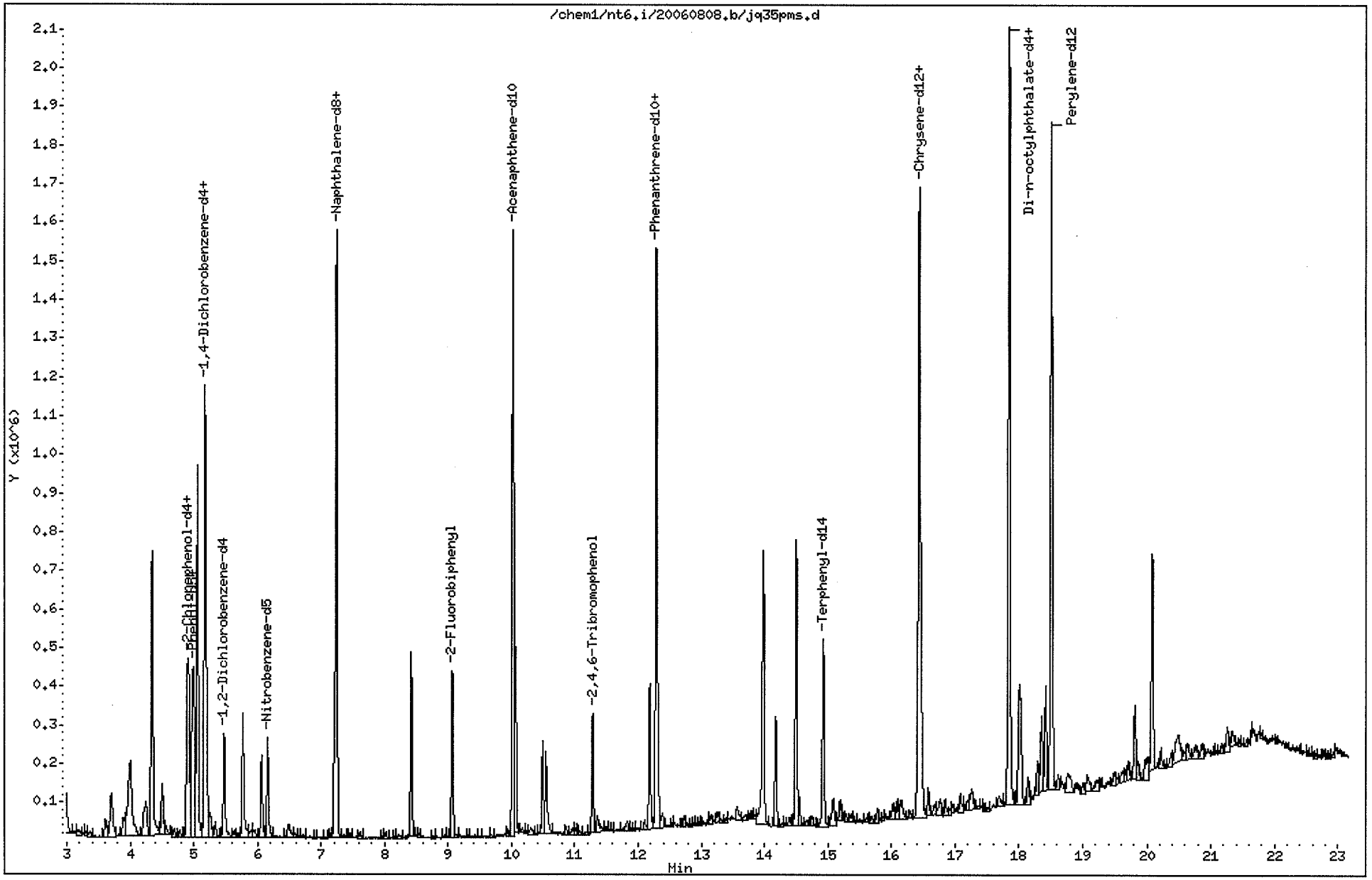
Client SDG: JQ35
Fraction: SV
Client Smp ID: T4-S3-08-C MS
Operator: LJR
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	738.0	404.9	54.86	32-121
6 2-Chlorophenol	738.0	408.4	55.34	39-111
9 1,4-Dichlorobenzen	492.0	269.7	54.82	34-88
16 N-Nitroso-di-n-pro	492.0	299.7	60.92	24-100
26 1,2,4-Trichloroben	492.0	284.2	57.76	41-91
31 4-Chloro-3-methylp	738.0	433.9	58.79	48-110
44 Acenaphthene	492.0	284.8	57.89	48-108
47 4-Nitrophenol	738.0	526.2	71.30	27-155
48 2,4-Dinitrotoluene	492.0	247.9	50.38	30-124
58 Pentachlorophenol	738.0	520.3	70.50	28-151
65 Pyrene	492.0	398.9	81.07	10-153

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	738.0	386.9	52.43	22-91
$ 2 Phenol-d5	738.0	405.8	54.99	26-99
$ 5 2-Chlorophenol-d4	738.0	426.0	57.73	29-96
$ 10 1,2-Dichlorobenzen	492.0	261.5	53.15	24-87
$ 18 Nitrobenzene-d5	492.0	323.8	65.82	27-101
$ 36 2-Fluorobiphenyl	492.0	282.8	57.49	30-100
$ 55 2,4,6-Tribromophen	738.0	452.8	61.36	20-114
$ 66 Terphenyl-d14	492.0	274.0	55.70	12-120

Data File: /chem1/nt6.i/20060808.b/jq35pms.d
Date : 08-AUG-2006 20:21
Client ID: T4-S3-08-C MS
Sample Info: JQ35PMS,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR
Column diameter: 0.32



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ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: T4-S3-08-C**
Page 1 of 1 **MATRIX SPIKE DUPLICATE**

Lab Sample ID: JQ35P
LIMS ID: 06-12971
Matrix: Sediment
Data Release Authorized:
Reported: 08/11/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted: 07/31/06
Date Analyzed: 08/08/06 20:52
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 51.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 3.00
Percent Moisture: 16.7%
pH: 6.0

CAS Number	Analyte	RL	Result
131-11-3	Dimethylphthalate	59	< 59 U
84-66-2	Diethylphthalate	59	< 59 U
84-74-2	Di-n-Butylphthalate	59	< 59 U
85-68-7	Butylbenzylphthalate	59	< 59 U
117-81-7	bis(2-Ethylhexyl)phthalate	59	< 59 U
117-84-0	Di-n-Octyl phthalate	59	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	54.0%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20060808.b/jq35pmd.d
Lab Smp Id: JQ35PMSD Client Smp ID: T4-S3-08-C MSD
Inj Date : 08-AUG-2006 20:52
Operator : LJR Inst ID: nt6.i
Smp Info : JQ35PMSD,3
Misc Info : 06-12971
Comment : 1ul Injection
Method : /chem1/nt6.i/20060808.b/SW846.m
Meth Date : 10-Aug-2006 14:54 jeff Quant Type: ISTD
Cal Date : 19-JUL-2006 17:54 Cal File: 0100719d.d
Als bottle: 15 QC Sample: MSD
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 8/10/06

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

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	61.20000	Weight of sample extracted (g)
M	16.70000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	1 2-Fluorophenol	112	2.969	2.956	(0.574)	132348	6.37101	374.9
$	2 Phenol-d5	99	4.978	4.965	(0.962)	183624	7.29517	429.3
	3 Phenol	94	4.999	4.981	(0.966)	201893	6.43701	378.8
$	5 2-Chlorophenol-d4	132	4.892	4.896	(0.945)	143484	6.72287	395.6(M)
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	4.919	4.922	(0.950)	141896	6.57508	386.9(M)
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	5.175	5.179	(1.000)	281521	20.0000	(M)
	9 1,4-Dichlorobenzene	146	5.202	5.205	(1.005)	97677	4.05185	238.4(M)
$	10 1,2-Dichlorobenzene-d4	152	5.474	5.478	(1.058)	55343	4.02259	236.7(M)
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
16	N-Nitroso-di-n-propylamine	70	6.062	6.076	(1.171)	93809	4.74953	279.5
15	4-Methylphenol	108	Compound Not Detected.					
$ 18	Nitrobenzene-d5	82	6.158	6.167	(0.850)	129592	5.03766	296.5
19	Nitrobenzene	77	Compound Not Detected.					
20	Isophorone	82	Compound Not Detected.					
21	2-Nitrophenol	139	Compound Not Detected.					
22	2,4-Dimethylphenol	107	Compound Not Detected.					
23	Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
24	Benzoic acid	105	Compound Not Detected.					
25	2,4-Dichlorophenol	162	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	7.211	7.214	(0.996)	85082	4.66139	274.3(H)
* 27	Naphthalene-d8	136	7.243	7.246	(1.000)	950259	20.0000	
28	Naphthalene	128	Compound Not Detected.					
29	4-Chloroaniline	127	Compound Not Detected.					
30	Hexachlorobutadiene	225	Compound Not Detected.					
31	4-Chloro-3-methylphenol	107	8.423	8.421	(1.163)	126965	7.10147	417.9
32	2-Methylnaphthalene	141	Compound Not Detected.					
33	Hexachlorocyclopentadiene	237	Compound Not Detected.					
34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$ 36	2-Fluorobiphenyl	172	9.064	9.068	(0.905)	195861	4.78078	281.3
37	2-Chloronaphthalene	162	Compound Not Detected.					
38	2-Nitroaniline	65	Compound Not Detected.					
39	Dimethylphthalate	163	Compound Not Detected.					
40	Acenaphthylene	152	Compound Not Detected.					
41	2,6-Dinitrotoluene	165	Compound Not Detected.					
* 42	Acenaphthene-d10	164	10.020	10.024	(1.000)	548682	20.0000	
43	3-Nitroaniline	138	Compound Not Detected.					
44	Acenaphthene	153	10.063	10.072	(1.004)	169376	4.80729	282.9
45	2,4-Dinitrophenol	184	Compound Not Detected.					
46	Dibenzofuran	168	Compound Not Detected.					
47	4-Nitrophenol	109	10.544	10.558	(1.052)	53769	8.87873	522.5
48	2,4-Dinitrotoluene	165	10.496	10.500	(1.047)	45549	4.12324	242.6
50	Diethylphthalate	149	Compound Not Detected.					
49	Fluorene	166	Compound Not Detected.					
51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
52	4-Nitroaniline	138	Compound Not Detected.					
53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$ 55	2,4,6-Tribromophenol	330	11.281	11.290	(1.126)	38793	7.35270	432.7
56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					
58	Pentachlorophenol	266	12.179	12.193	(0.991)	61997	9.21114	542.0
* 59	Phenanthrene-d10	188	12.286	12.294	(1.000)	840039	20.0000	
60	Phenanthrene	178	12.318	12.327	(1.003)	79574	1.42294	83.74
61	Anthracene	178	Compound Not Detected.					
62	Carbazole	167	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	63 Di-n-butylphthalate	149	Compound Not Detected.					
	64 Fluoranthene	202	14.171	14.180	(1.153)	220297	3.99559	235.1
	65 Pyrene	202	14.497	14.501	(0.882)	553044	6.85873	403.6
$	66 Terphenyl-d14	244	14.925	14.934	(0.908)	228344	4.50444	265.1
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	16.415	16.424	(0.999)	175681	2.43037	143.0
*	69 Chrysene-d12	240	16.436	16.445	(1.000)	957256	20.0000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	16.468	16.483	(1.002)	188943	2.63032	154.8
	72 bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
*	134 Di-n-octylphthalate-d4	153	17.841	17.850	(1.000)	1454127	20.0000	
	73 Di-n-octylphthalate	149	17.852	17.856	(1.001)	347784	5.00739	294.7
	74 Benzo(b)fluoranthene	252	18.007	18.021	(0.973)	176691	2.62565	154.5(M)
	75 Benzo(k)fluoranthene	252	18.018	18.048	(0.973)	220271	3.16544	186.3(M)
	76 Benzo(a)pyrene	252	18.418	18.427	(0.995)	199088	3.07378	180.9
*	77 Perylene-d12	264	18.509	18.507	(1.000)	1025007	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	19.807	19.827	(1.070)	146193	1.85534	109.2
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	20.085	20.099	(1.085)	422792	5.12416	301.5
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: jq35pmd.d
Lab Smp Id: JQ35PMSD
Analysis Type: SV
Quant Type: ISTD
Operator: LJR
Method File: /chem1/nt6.i/20060808.b/SW846.m
Misc Info: 06-12971

Calibration Date: 08-AUG-2006
Calibration Time: 13:13
Client Smp ID: T4-S3-08-C MSD
Level: LOW
Sample Type: Sediment

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	284616	142308	569232	281521	-1.09
27 Naphthalene-d8	977404	488702	1954808	950259	-2.78
42 Acenaphthene-d10	544393	272196	1088786	548682	0.79
59 Phenanthrene-d10	824403	412202	1648806	840039	1.90
69 Chrysene-d12	813838	406919	1627676	957256	17.62
134 Di-n-octylphthala	1238353	619176	2476706	1454127	17.42
77 Perylene-d12	837816	418908	1675632	1025007	22.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.18	4.68	5.68	5.18	-0.07
27 Naphthalene-d8	7.25	6.75	7.75	7.24	-0.05
42 Acenaphthene-d10	10.02	9.52	10.52	10.02	-0.04
59 Phenanthrene-d10	12.29	11.79	12.79	12.29	-0.07
69 Chrysene-d12	16.45	15.95	16.95	16.44	-0.05
134 Di-n-octylphthala	17.85	17.35	18.35	17.84	-0.05
77 Perylene-d12	18.51	18.01	19.01	18.51	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: JQ35PMSD
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDAMS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20060808.b/SW846.m
Misc Info: 06-12971

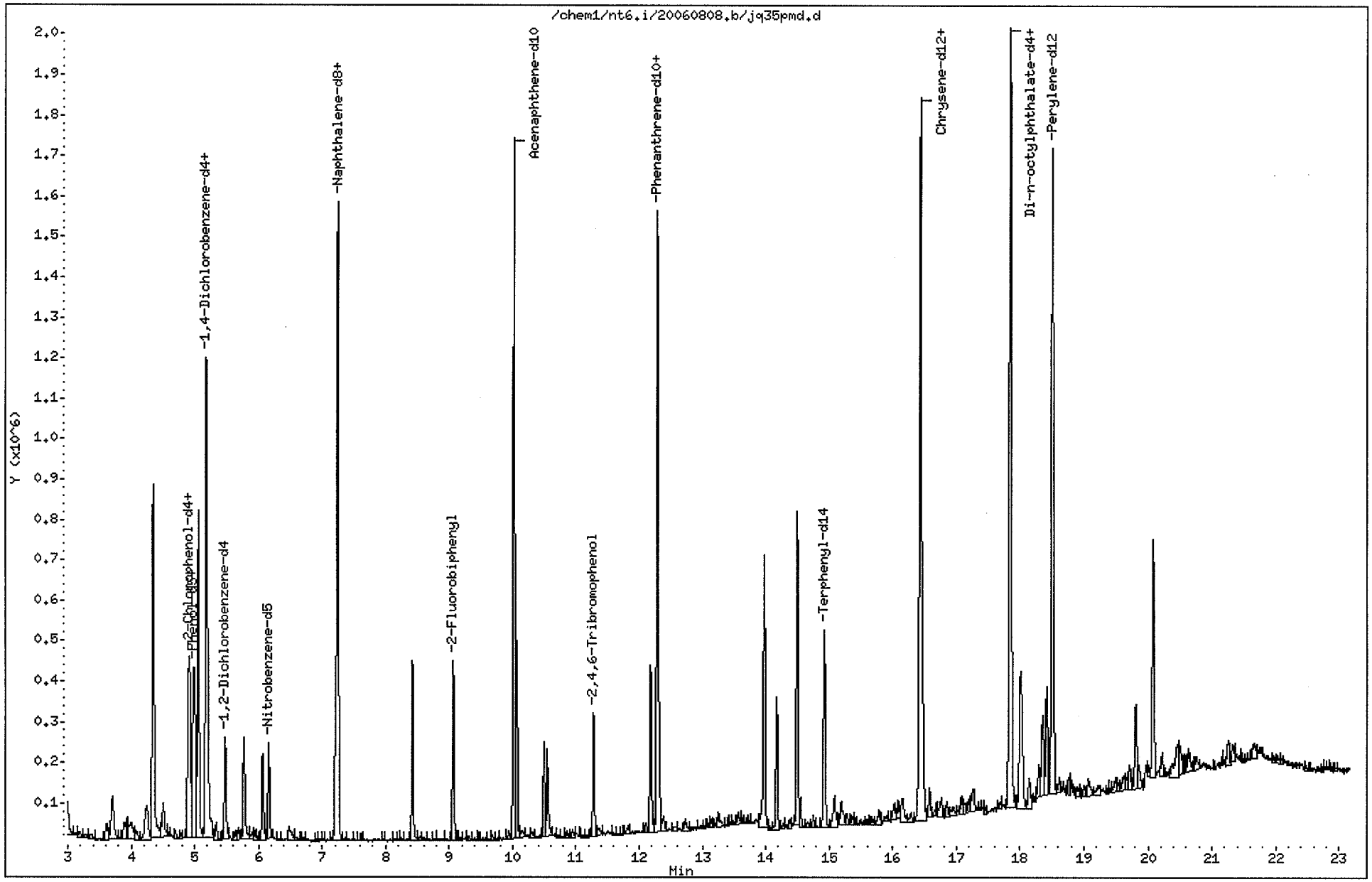
Client SDG: JQ35
Fraction: SV
Client Smp ID: T4-S3-08-C MSD
Operator: LJR
SampleType: MSD
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3	Phenol	735.6	378.8	51.50	32-121
6	2-Chlorophenol	735.6	386.9	52.60	39-111
9	1,4-Dichlorobenzen	490.4	238.4	48.62	34-88
16	N-Nitroso-di-n-pro	490.4	279.5	56.99	24-100
26	1,2,4-Trichloroben	490.4	274.3	55.94	41-91
31	4-Chloro-3-methylp	735.6	417.9	56.81	48-110
44	Acenaphthene	490.4	282.9	57.69	48-108
47	4-Nitrophenol	735.6	522.5	71.03	27-155
48	2,4-Dinitrotoluene	490.4	242.6	49.48	30-124
58	Pentachlorophenol	735.6	542.0	73.69	28-151
65	Pyrene	490.4	403.6	82.30	10-153

	SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1	2-Fluorophenol	735.6	374.9	50.97	22-91
$ 2	Phenol-d5	735.6	429.3	58.36	26-99
$ 5	2-Chlorophenol-d4	735.6	395.6	53.78	29-96
$ 10	1,2-Dichlorobenzen	490.4	236.7	48.27	24-87
$ 18	Nitrobenzene-d5	490.4	296.5	60.45	27-101
$ 36	2-Fluorobiphenyl	490.4	281.3	57.37	30-100
$ 55	2,4,6-Tribromophen	735.6	432.7	58.82	20-114
$ 66	Terphenyl-d14	490.4	265.1	54.05	12-120

Data File: /chem1/nt6.i/20060808.b/jq35pmd.d
Date : 08-AUG-2006 20:52
Client ID: T4-S3-08-C MSD
Sample Info: JQ35PMSD,3
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20060807.b/jq35sb.d
Lab Smp Id: JQ35LCSS1 Client Smp ID: JQ35LCSS1
Inj Date : 07-AUG-2006 10:55
Operator : LJR Inst ID: nt6.i
Smp Info : JQ35LCSS1
Misc Info : 06-12971
Comment : 1ul Injection
Method : /chem1/nt6.i/20060807.b/SW846.m
Meth Date : 10-Aug-2006 15:06 jeff Quant Type: ISTD
Cal Date : 19-JUL-2006 17:54 Cal File: 0100719d.d
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDAMBLCS.sub
Target Version: 3.50

LJR 8/10/06

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	50.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$ 1	2-Fluorophenol	112	3.213	3.192	(0.602)	432756	19.8802	397.6
$ 2	Phenol-d5	99	5.115	5.115	(0.958)	620019	23.5070	470.1
3	Phenol	94	5.131	5.131	(0.961)	512799	15.6026	312.1 (M)
$ 5	2-Chlorophenol-d4	132	5.056	5.056	(0.947)	453358	20.2711	405.4 (M)
4	Bis(2-Chloroethyl)ether	93	5.083	5.089	(0.952)	353411	14.4519	289.0
6	2-Chlorophenol	128	5.083	5.083	(0.952)	343012	15.1679	303.4 (M)
7	1,3-Dichlorobenzene	146	5.259	5.260	(0.985)	328818	13.3761	267.5
* 8	1,4-Dichlorobenzene-d4	152	5.339	5.340	(1.000)	295002	20.0000	(M)
9	1,4-Dichlorobenzene	146	5.361	5.366	(1.004)	340381	13.4745	269.5
$ 10	1,2-Dichlorobenzene-d4	152	5.639	5.639	(1.056)	153537	10.6498	213.0 (RM)
12	1,2-Dichlorobenzene	146	5.655	5.660	(1.059)	330701	13.6168	272.3 (M)
11	Benzyl alcohol	108	5.735	5.740	(1.074)	234645	14.9851	299.7 (M)
14	2,2'-oxybis(1-Chloropropane)	45	5.997	5.997	(1.123)	383352	12.8000	256.0 (R)
13	2-Methylphenol	108	6.066	6.066	(1.136)	331587	15.3335	306.7
17	Hexachloroethane	117	6.146	6.146	(1.151)	154062	14.4068	288.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	6.221	6.226	(1.165)	319441	15.4341	308.7
	15 4-Methylphenol	108	6.328	6.317	(1.185)	785591	35.2249	704.5
$	18 Nitrobenzene-d5	82	6.312	6.317	(0.853)	403059	14.1800	283.6
	19 Nitrobenzene	77	6.338	6.344	(0.857)	862236	27.6292	552.6
	20 Isophorone	82	6.755	6.755	(0.913)	803917	16.4246	328.5
	21 2-Nitrophenol	139	6.867	6.867	(0.928)	162402	14.1459	282.9 (R)
	22 2,4-Dimethylphenol	107	7.124	7.124	(0.963)	300677	12.5556	251.1
	23 Bis(2-Chloroethoxy)methane	93	7.225	7.231	(0.977)	416157	15.2617	305.2
	24 Benzoic acid	105	7.444	7.476	(1.006)	272766	21.5803	431.6 (MH)
	25 2,4-Dichlorophenol	162	7.289	7.295	(0.986)	278368	15.9189	318.4
	26 1,2,4-Trichlorobenzene	180	7.359	7.364	(0.995)	299032	14.8269	296.5
*	27 Naphthalene-d8	136	7.396	7.396	(1.000)	1049992	20.0000	
	28 Naphthalene	128	7.423	7.423	(1.004)	924274	14.4800	289.6 (R)
	29 4-Chloroaniline	127	7.647	7.647	(1.034)	682802	26.5231	530.5
	30 Hexachlorobutadiene	225	7.786	7.792	(1.053)	196864	15.5366	310.7
	31 4-Chloro-3-methylphenol	107	8.555	8.556	(1.157)	354811	17.9604	359.2
	32 2-Methylnaphthalene	141	8.534	8.540	(1.154)	561050	16.2512	325.0
	33 Hexachlorocyclopentadiene	237	8.929	8.930	(0.877)	150456	18.0652	361.3
	34 2,4,6-Trichlorophenol	196	9.095	9.101	(0.893)	224804	16.1772	323.5
	35 2,4,5-Trichlorophenol	196	9.154	9.159	(0.899)	243206	16.8404	336.8
$	36 2-Fluorobiphenyl	172	9.213	9.213	(0.905)	527202	11.3169	226.3 (R)
	37 2-Chloronaphthalene	162	9.277	9.282	(0.911)	602476	14.7215	294.4
	38 2-Nitroaniline	65	9.570	9.576	(0.940)	288618	17.2848	345.7
	39 Dimethylphthalate	163	9.998	9.998	(0.982)	718973	16.5547	331.1
	40 Acenaphthylene	152	9.918	9.923	(0.974)	951685	15.0396	300.8
	41 2,6-Dinitrotoluene	165	10.057	10.057	(0.988)	157064	15.8637	317.3
*	42 Acenaphthene-d10	164	10.179	10.180	(1.000)	623908	20.0000	
	43 3-Nitroaniline	138	10.249	10.244	(1.007)	377515	35.6752	713.5
	44 Acenaphthene	153	10.222	10.222	(1.004)	638469	15.9363	318.7
	45 2,4-Dinitrophenol	184	10.404	10.399	(1.022)	60956	31.7208	634.4 (M)
	46 Dibenzofuran	168	10.484	10.484	(1.030)	870596	15.7938	315.9
	47 4-Nitrophenol	109	10.682	10.692	(1.049)	143934	20.9018	418.0
	48 2,4-Dinitrotoluene	165	10.650	10.650	(1.046)	205875	16.3894	327.8
	50 Diethylphthalate	149	11.130	11.141	(1.093)	731506	17.4385	348.8
	49 Fluorene	166	11.018	11.018	(1.082)	721254	16.1300	322.6
	51 4-Chlorophenyl-phenylether	204	11.109	11.109	(1.091)	402881	17.1515	343.0
	52 4-Nitroaniline	138	11.200	11.211	(1.100)	107293	11.5508	231.0 (RM)
	53 4,6-Dinitro-2-methylphenol	198	11.269	11.275	(0.905)	100995	17.1953	343.9
	54 N-Nitrosodiphenylamine	169	11.328	11.334	(0.910)	562673	16.2277	324.6
$	55 2,4,6-Tribromophenol	330	11.440	11.440	(1.124)	139448	23.2437	464.9
	56 4-Bromophenyl-phenylether	248	11.852	11.852	(0.952)	232277	16.3912	327.8
	57 Hexachlorobenzene	284	12.006	12.007	(0.964)	226120	15.2254	304.5
	58 Pentachlorophenol	266	12.338	12.349	(0.991)	130032	16.0756	321.5
*	59 Phenanthrene-d10	188	12.450	12.455	(1.000)	1009544	20.0000	
	60 Phenanthrene	178	12.482	12.487	(1.003)	1085968	16.1587	323.2
	61 Anthracene	178	12.551	12.557	(1.008)	1000107	14.8231	296.5
	62 Carbazole	167	12.888	12.893	(1.035)	871305	16.0423	320.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	63 Di-n-butylphthalate	149	13.721	13.727	(1.102)	1159901	17.8290	356.6
	64 Fluoranthene	202	14.346	14.352	(1.152)	1193618	18.0141	360.3
	65 Pyrene	202	14.672	14.672	(0.883)	1198381	15.1218	302.4
$	66 Terphenyl-d14	244	15.094	15.094	(0.908)	702538	14.1009	282.0
	67 Butylbenzylphthalate	149	16.040	16.045	(0.965)	473156	16.0906	321.8
	68 Benzo(a)anthracene	228	16.595	16.601	(0.998)	1197713	16.8588	337.2
*	69 Chrysene-d12	240	16.622	16.622	(1.000)	940810	20.0000	
	70 3,3'-Dichlorobenzidine	252	16.702	16.697	(1.005)	694527	27.1082	542.2
	71 Chrysene	228	16.654	16.660	(1.002)	1129125	15.9936	319.9
	72 bis(2-Ethylhexyl)phthalate	149	17.087	17.092	(0.949)	642752	18.6678	373.4
*	134 Di-n-octylphthalate-d4	153	18.011	18.011	(1.000)	1363655	20.0000	
	73 Di-n-octylphthalate	149	18.016	18.017	(1.000)	1073998	16.4893	329.8
	74 Benzo(b)fluoranthene	252	18.198	18.203	(0.974)	963823	19.4565	389.1
	75 Benzo(k)fluoranthene	252	18.225	18.236	(0.975)	1122501	21.9132	438.3 (M)
	76 Benzo(a)pyrene	252	18.609	18.615	(0.996)	811944	17.0293	340.6
*	77 Perylene-d12	264	18.689	18.695	(1.000)	754542	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	20.004	20.009	(1.070)	800078	13.7934	275.9
	79 Dibenzo(a,h)anthracene	278	20.057	20.057	(1.073)	838258	14.7121	294.2
	80 Benzo(g,h,i)perylene	276	20.281	20.292	(1.085)	876276	14.4271	288.5
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	4.912	4.918	(0.920)	841340	21.6819	433.6 (M)
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	141	8.694	8.694	(1.176)	504982	13.9926	279.9
	111 Azobenzene (1,2-DP-Hydrazine)	77	11.339	11.344	(1.114)	1139834	18.6721	373.4

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: jq35sb.d
Lab Smp Id: JQ35LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR
Method File: /chem1/nt6.i/20060807.b/SW846.m
Misc Info: 06-12971

Calibration Date: 07-AUG-2006
Calibration Time: 09:54
Client Smp ID: JQ35LCSS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	318996	159498	637992	295002	-7.52
27 Naphthalene-d8	1113586	556793	2227172	1049992	-5.71
42 Acenaphthene-d10	652908	326454	1305816	623908	-4.44
59 Phenanthrene-d10	1012561	506280	2025122	1009544	-0.30
69 Chrysene-d12	948800	474400	1897600	940810	-0.84
134 Di-n-octylphthala	1381183	690592	2762366	1363655	-1.27
77 Perylene-d12	760208	380104	1520416	754542	-0.75

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.34	4.84	5.84	5.34	0.00
27 Naphthalene-d8	7.40	6.90	7.90	7.40	0.00
42 Acenaphthene-d10	10.18	9.68	10.68	10.18	0.00
59 Phenanthrene-d10	12.46	11.96	12.96	12.45	-0.04
69 Chrysene-d12	16.62	16.12	17.12	16.62	0.00
134 Di-n-octylphthala	18.01	17.51	18.51	18.01	0.00
77 Perylene-d12	18.69	18.19	19.19	18.69	-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: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JQ35LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDAMBLCS.sub
Method File: /chem1/nt6.i/20060807.b/SW846.m
Misc Info: 06-12971

Client SDG: JQ35
Fraction: SV
Client Smp ID: JQ35LCSS1
Operator: LJR
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3	Phenol	500.0	312.1	62.41	42-101
4	Bis(2-Chloroethyl)	500.0	289.0	57.81	55-102
6	2-Chlorophenol	500.0	303.4	60.67	43-99
7	1,3-Dichlorobenzen	500.0	267.5	53.50	53-95
9	1,4-Dichlorobenzen	500.0	269.5	53.90	39-93
11	Benzyl alcohol	500.0	299.7	59.94	19-123
12	1,2-Dichlorobenzen	500.0	272.3	54.47	54-96
13	2-Methylphenol	500.0	306.7	61.33	53-108
14	2,2'-oxybis(1-Chlo	500.0	256.0	51.20 *	53-103
15	4-Methylphenol	1000	704.5	70.45	54-116
16	N-Nitroso-di-n-pro	500.0	308.7	61.74	31-108
17	Hexachloroethane	500.0	288.1	57.63	52-99
19	Nitrobenzene	500.0	552.6	110.52	58-112
20	Isophorone	500.0	328.5	65.70	59-122
21	2-Nitrophenol	500.0	282.9	56.58 *	58-112
22	2,4-Dimethylphenol	500.0	251.1	50.22	17-121
23	Bis(2-Chloroethoxy	500.0	305.2	61.05	57-116
24	Benzoic acid	500.0	431.6	86.32	39-143
25	2,4-Dichlorophenol	500.0	318.4	63.68	57-119
26	1,2,4-Trichloroben	500.0	296.5	59.31	40-102
28	Naphthalene	500.0	289.6	57.92 *	58-106
29	4-Chloroaniline	1200	530.5	44.21	10-57
30	Hexachlorobutadien	500.0	310.7	62.15	56-108
31	4-Chloro-3-methylp	500.0	359.2	71.84	42-121
32	2-Methylnaphthalen	500.0	325.0	65.00	59-111
33	Hexachlorocyclopen	500.0	361.3	72.26	31-122
34	2,4,6-Trichlorophe	500.0	323.5	64.71	58-114
35	2,4,5-Trichlorophe	500.0	336.8	67.36	57-115
37	2-Chloronaphthalen	500.0	294.4	58.89	58-112
38	2-Nitroaniline	500.0	345.7	69.14	36-89
39	Dimethylphthalate	500.0	331.1	66.22	59-126
40	Acenaphthylene	500.0	300.8	60.16	58-114
41	2,6-Dinitrotoluene	500.0	317.3	63.45	58-131

OK

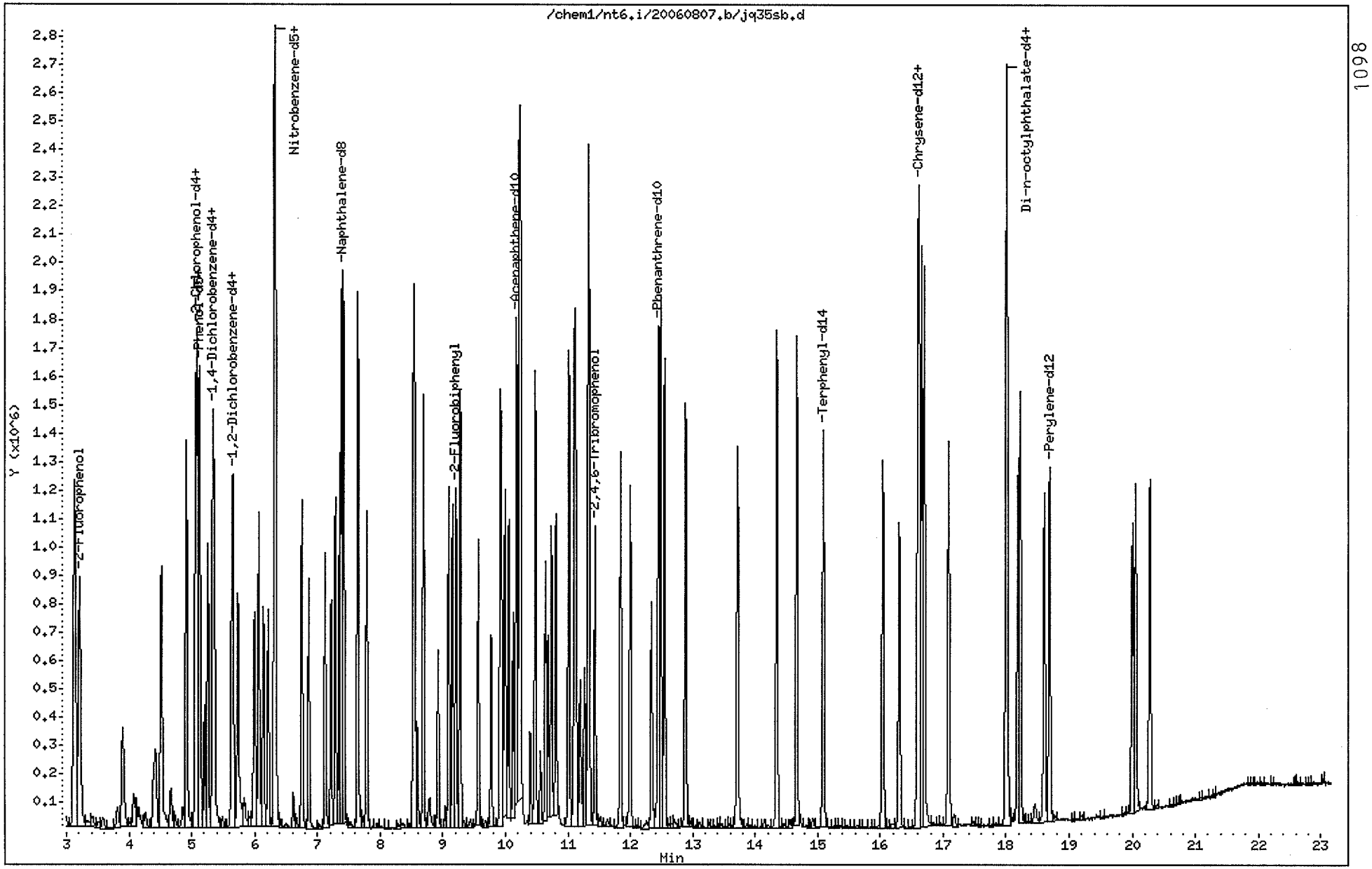
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
43 3-Nitroaniline	1280	713.5	55.74	33-92
44 Acenaphthene	500.0	318.7	63.75	43-108
45 2,4-Dinitrophenol	500.0	634.4	126.88	10-174
46 Dibenzofuran	500.0	315.9	63.18	57-117
47 4-Nitrophenol	500.0	418.0	83.61	34-140
48 2,4-Dinitrotoluene	500.0	327.8	65.56	32-126
49 Fluorene	500.0	322.6	64.52	57-124
50 Diethylphthalate	500.0	348.8	69.75	60-134
51 4-Chlorophenyl-phe	500.0	343.0	68.61	57-125
52 4-Nitroaniline	500.0	231.0	46.20*	52-109
53 4,6-Dinitro-2-meth	500.0	343.9	68.78	24-151
54 N-Nitrosodiphenyla	500.0	324.6	64.91	51-131
56 4-Bromophenyl-phen	500.0	327.8	65.56	60-125
57 Hexachlorobenzene	500.0	304.5	60.90	59-122
58 Pentachlorophenol	500.0	321.5	64.30	39-117
60 Phenanthrene	500.0	323.2	64.63	56-129
61 Anthracene	500.0	296.5	59.29	55-116
62 Carbazole	500.0	320.8	64.17	60-131
63 Di-n-butylphthalat	500.0	356.6	71.32	59-144
64 Fluoranthene	500.0	360.3	72.06	55-137
65 Pyrene	500.0	302.4	60.49	39-127
67 Butylbenzylphthala	500.0	321.8	64.36	56-148
68 Benzo(a)anthracene	500.0	337.2	67.44	61-128
70 3,3'-Dichlorobenzi	1280	542.2	42.36	10-75
71 Chrysene	500.0	319.9	63.97	59-129
72 bis(2-Ethylhexyl)p	500.0	373.4	74.67	53-141
73 Di-n-octylphthalat	500.0	329.8	65.96	42-142
74 Benzo(b)fluoranthe	500.0	389.1	77.83	53-146
75 Benzo(k)fluoranthe	500.0	438.3	87.65	50-153
76 Benzo(a)pyrene	500.0	340.6	68.12	54-132
78 Indeno(1,2,3-cd)py	500.0	275.9	55.17	33-169
79 Dibenzo(a,h)anthra	500.0	294.2	58.85	41-162
80 Benzo(g,h,i)peryle	500.0	288.5	57.71	10-179

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	750.0	397.6	53.01	42-87
$ 2 Phenol-d5	750.0	470.1	62.69	47-87
$ 5 2-Chlorophenol-d4	750.0	405.4	54.06	47-86
$ 10 1,2-Dichlorobenzen	500.0	213.0	42.60*	43-82
$ 18 Nitrobenzene-d5	500.0	283.6	56.72	46-87
$ 36 2-Fluorobiphenyl	500.0	226.3	45.27*	46-88
$ 55 2,4,6-Tribromophen	750.0	464.9	61.98	40-97

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 66 Terphenyl-d14	500.0	282.0	56.40	37-114

Data File: /chem1/nt6.i/20060807.b/jq35sb.d
Date : 07-AUG-2006 10:55
Client ID: JQ35LCSS1
Sample Info: JQ35LCSS1
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR
Column diameter: 0.32



1098

Semivolatile Organics
Extraction Bench Sheets/Run Logs

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ35

prepared
by

Analytical Resources, Inc.

1 of 2

QA LIMs # _____
EXT LIMs # _____
Bid # SV0728A-01

(8270) BAN/Skydrol/Phenol – Soil/Sediment/Tissue
In House ____ /PSDDA X Medium Level ____
(3550B) Microtip ____
(3550B) Macrotip X /Tissuemizer ____
Med.Shakeout ____
KD X
Turbovap X

ANALYTICAL RESOURCES INCORPORATED

Client Name: Anchor Environmental

ARI Job No(s): JQ35, JQ52

Extraction Requirements (ARI Lab ID)	Sample Client ID	Amount Extracted	GPC Aliquot #1/ #2 1:2	Silica-gel Aliquot Y / N	Final Effective Volume 1mL	Aliquot Volume For Analysis 0.5mL	Time Extracted 1600 Comments KD
MB: JQ35 MB	7/31	50.00	↓ TH8/1				
SB: SB	↓	50.00	1:2 SP 8/2				
A	checked	94.58	1:2 TH8/1				
B		42.80					
C		45.06					
D		37.16					
E		49.70					
F		85.68					
G		75.68					
H		96.05					
I		49.68					
J		42.70					
K		47.56					
L		63.86					
M		97.23					
N		66.94	SP 8/2/06 (1:2)				
O		72.04					
P		61.58					
PMS		61.04					
PMSD	↓	61.22					
JQ52 A	checked	93.12					
B		96.66					
C		101.78					
D	↓	60.14					
LW 7/31	Date/Analyst:		SP 8/2/06		TH8/1	SP 8/4/06	HH 8/3/06

KD#1: GAH 7-31-06

Surrogate Amount: 250 ul Added by: TH /Spk. Witness ____
Concentration: 100/150 ug/mL ID: 1405-3B

Spike Amount: 250 ul Added by: TH /Spk. Witness ____
Concentration: 100 ug/mL ID: 1403-03

Xtra Spike Amount: 250 ul Added by: TH /Spk.Witness ____
Concentration: 200 ug/mL ID: 1405-01

(DCM)solvent ID: I2978
(1:1DCM/Acetone) Reagent ID: F484
(95:5DCM/Hexane) Reagent ID: ____
Neutral glasswool ID: 3/19#1
0.05% HCL/acetone Reagent ID: F452
Na2So4 ID: 7/20#1
3% Silica gel ID: ____
95:5Ether/DCM ID: ____
8:2:9Ether/Meoh/DCM ID: ____

3009F

Hexane: P3204 Revision 8
7/29/03

12971
3102

1100

QA LIMs # ____________
EXT LIMs # ____________
Bid # ____________

(8270) BAN/Skydrol/Phenol – Soil/Sediment/Tissue
In House_____/PSDDA_____Medium Level____
(3550B) Microtip_____
(3550B) Macrotip_____/Tissuemizer_____
Med.Shakeout_____ Client Name: ____________
KD_____
Turbovap_____

ANALYTICAL RESOURCES INCORPORATED

ARI Job No(s): JQ35, JQ52

Extraction Requirements (ARI Lab ID)	Sample Client ID	Amount Extracted	GPC Aliquot #1/ #2	Silica-gel Aliquot Y / N	Final Effective Volume	Aliquot Volume For Analysis	Time Extracted ____ Comments
MB:							
SB:							
	Date/Analyst:						

Surrogate Amount:________ Added by:__________/Spk. Witness________
Concentration:________ ID:__________

Spike Amount: 250 ul Added by: TH /Spk. Witness________
Concentration: 100 ug/ml ID: 1467-04A

Xtra Spike Amount: 250 ul Added by: TH /Spk.Witness________
Concentration 200 ug/ml ID: 1361-04

(DCM)solvent ID:________
(1:1DCM/Acetone) Reagent ID:________
(95:5DCM/Hexane) Reagent ID:________
Neutral glasswool ID:________
0.05% HCL/acetone Reagent ID:________
Na2So4 ID:________
3% Silica gel ID:________
95:5Ether/DCM ID:________
8:2:9Ether/Meoh/DCM ID:________

3009F

Revision 8
7/29/03

ANALYTICAL
RESOURCES
INCORPORATED

ANALYST NOTES - Organic Extractions

ARI Job No: JQ35 Client Name: Anchor Environmental

Parameter: BAN PSDDA Client Project: T4 Early Action

3745 SOP Number(s) [ ] No Anomalies

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

A-K = very wet, slurry-like sed.
~~M-Sandy~~ TH 7/25
L, N, P - Sandy
M, O - Standing H2O, slurry-like sed. TH 7/25

Extraction
Analyst: _____ Date Extracted: _____

See Reverse Side for Additional Information

3056F

Rev. 5
2/15/01

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: JQ35 / JQ52 Client ID: Anchor

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

Parameter(s): BANs

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

Curve Date: 7/5/06 Analysis Start Date: 8/7/06

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

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary): - Phthalates / Terphenyl surrogates only.

- Perylene IS out in 35J & K. K 20x OK J 20x OK
- Chrysene IS out in 52B B 5x OK

JQ35 (A-K - 3x & O/P pms/pms)
most Samples run (3X) to minimize
IS falling out
L/M/N JQ35)

JQ52 (3X) A-B-C-D
B - 5X

LJK 8/10/06

MB. — Bis 2-ethylhexyl phthalate
<MDL by .5ppB 10.49
Reported with J 10J
Samples NO J Flags for
Bis 2-ethylhexyl phthalate <DL
8/11/06

Additional Details on Reverse: Yes / No

Analyst Signature: [signature] **Date:** 8/10/06

Reviewer's Signature: [signature] **Date:** 8/11/06

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: NT6 Curve Client ID: ART

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

Parameter(s): BANs

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

Curve Date: 7/5/06 Analysis Start Date: ——

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

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary): 3 - 2,4-Dinitrophenol's RSD >10%. Linear fit $r^2 < 0.99$. Leaving as average fit.

LJK
7/5/06

Additional Details on Reverse: Yes / (No)

Analyst Signature: Jeff Roberson **Date:** 7/5/06

Reviewer's Signature: [signature] **Date:** 7/8/06

Analytical Resources Inc.: Organics Instrument Log

NT-6 Serial No.:GC=US00036167, MS=US81221575

Date: 7/5/06 Analysis: BANS Analyst: LJK

GC Program: ABN10C Column No: 96972 Column Type: ZB-5

Instrument Tune (.U or .CT.): 060630 EM Voltage: 1765

Calibration File: 0250705 Curve Date: 7/5/06

IS/SS	Ical/Ccal	LCS/ICV
1402-2	1374-3	1340-1,2
	1375-1,2	1341-1
	1396-2	

	Time	Filename	LabID	ClientId	DF											
1	1016	0250705.d	ABN 25		1	6.47	200696	8.49	684917	11.32	379750	13.65	559641	17.90	488455	20.02	578815	19.18	797584
2	1046	0800705.d	ABN 80		1	6.49	194774	8.51	671389	11.32	363923	13.66	549021	17.91	515271	20.03	651976	19.18	826407
3	1117	0010705.d	ABN 1		1	6.47	186831	8.49	635059	11.31	353572	13.65	519227	17.90	422891	20.02	558463	19.17	753636
4	1147	0400705.d	ABN 40		1	6.48	188586	8.50	643563	11.32	353561	13.65	521831	17.90	459052	20.02	520114	19.18	750624
5	1218	0050705.d	ABN 5		1	6.47	187970	8.49	649631	11.31	355016	13.65	526410	17.89	428642	20.02	537760	19.17	728345
6	1249	0100705.d	ABN 10		1	6.48	184947	8.49	638713	11.32	351204	13.65	512120	17.90	415649	20.02	494060	19.17	689842
7	1320	icv0705.d	ABN ICV		1	6.47	190508	8.49	650128	11.31	364760	13.65	536565	17.90	444271	20.02	493568	19.18	726904

LJK 7/6/06

Maintenance / Comments New liner + wool. Clipped column. Cleaned inlet seal.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): 0250705

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-6 Serial No.:GC=US00036167, MS=US81221575

Date: 8/7/06 Analysis: BANS Analyst: LJK

GC Program: ABN1UL Column No: 96972 Column Type: ZB-5

Instrument Tune (U or .CT.): 060804 EM Voltage: 1835

Calibration File: cc0807 Curve Date: 7/5/06

IS/SS	Ical/Ccal	LCS/ICV
1402-2	1374-3	
	1375-1,2	
	1396-2	

	Time	Filename	LabID	ClientId	DF															
1	0954	cc0807.d	ABN 25		1	5.34	318996	7.40	1113586	10.18	652908	12.46	1012561	16.62	948800	18.69	760208	18.01	1381183	
2	1025	jq35mb.d	JQ35MBS1	JQ35MBS1	1	5.33	275186	7.39	958062	10.17	601750	12.45	928155	16.61	794537	18.01	1175278	18.69	654960	
3	1055	jq35sb.d	JQ35LCSS1	JQ35LCSS1	1	5.34	295002	7.40	1049992	10.18	623908	12.45	1009544	16.62	940810	18.01	1363655	18.69	754542	
4	1132	jr04bdl.d	JR04B	F4b-B4	3	5.33	285939	7.39	1024482	10.17	604434	12.46	972004	16.62	935527	18.02	1507781	18.71	1218295	
5	1202	jr04edl.d	JR04E	F-TP-2	3	5.33	276569	7.39	979914	10.17	581796	12.45	932204	16.62	914140	18.01	1448032	18.71	1162716	
6	1233	jq39adl.d	JQ39A	T.B. S-7 W.WALL	3	5.34	282777	7.40	982673	10.17	587455	12.45	898157	16.62	767584	18.01	1195628	18.69	830607	
7	1303	jq39bdl.d	JQ39B	T.B. S-7 E.WALL	3	5.34	274590	7.39	972785	10.18	588463	12.45	894074	16.61	773180	18.01	1186798	18.69	845724	
8	1334	jq48f2.d	JQ48F	DUP	1	5.34	236037	7.40	853948	10.17	502504	12.45	774023	16.61	645964	18.00	1011313	18.69	634102	
9	1404	jq80a.d	JQ80A	PL2C-2-10-L-0045	1	5.33	233312	7.39	819308	10.17	506914	12.45	772440	16.61	637381	18.00	1015321	18.69	661626	
10	1435	jq35adl.d	JQ35A	T4-S3-02-C	3	5.34	235359	7.39	826001	10.17	508844	12.45	849244	16.64	1153651	18.03	1343914	18.74	1213401	
11	1505	jq35bdl.d	JQ35B	T4-S3-02-D	3	5.34	271832	7.39	945282	10.18	575206	12.46	977476	16.65	1470785	18.03	1527430	18.76	1500984	
12	1536	jq35cdl.d	JQ35C	T4-S3-02-E	3	5.33	266178	7.39	923237	10.17	561620	12.45	936311	16.65	1470900	18.03	1514920	18.76	1475376	
13	1606	jq35ddl.d	JQ35D	T4-S3-02-F	3	5.34	265607	7.39	918689	10.18	570291	12.46	1030944	16.64	1154300	18.02	1468699	18.73	1358283	
14	1637	jq35edl.d	JQ35E	T4-S3-03-B	3	5.34	269847	7.39	922218	10.18	578246	12.46	1017619	16.64	1130216	18.02	1456773	18.73	1275374	
15	1707	jq35fdl.d	JQ35F	T4-S3-03-C	3	5.34	255609	7.40	889587	10.18	564436	12.46	1040270	16.63	1004405	18.02	1492125	18.72	1263784	
16	1738	jq35gdl.d	JQ35G	T4-S3-03-D	3	5.34	273744	7.40	960436	10.18	621005	12.46	1217238	16.64	1021064	18.02	1478107	18.72	1228034	
17	1808	jq35hdl.d	JQ35H	T4-S3-05-E	3	5.34	247651	7.39	888253	10.17	529856	12.46	906604	16.64	1029153	18.02	1316502	18.73	1154733	
18	1839	jq35idl.d	JQ35I	T4-S3-05-F	3	5.34	273746	7.40	961139	10.18	589822	12.46	984088	16.65	1373160	18.03	1555936	18.75	1471233	
19	1909	jq35jdl.d	JQ35J	T4-S3-05-G	3	5.34	283610	7.40	1002078	10.18	618713	12.46	1017365	16.65	1520075	18.03	1688708	18.75	1550127	
20	1940	jq35kdl.d	JQ35K	T4-S3-05-H	3	5.34	271768	7.39	967057	10.18	582763	12.46	969912	16.66	1573103	18.03	1729755	18.76	1638808	
21	2011	jq35l.d	JQ35L	T4-S3-05-J	1	5.34	278813	7.40	963400	10.18	597410	12.45	962828	16.62	854688	18.01	1260069	18.71	883281	
22	2042	jq35m.d	JQ35M	T4-S3-06-A	1	5.34	275134	7.40	961990	10.17	592819	12.45	973775	16.64	1149694	18.02	1381176	18.73	1189870	
23	2112	jq35n.d	JQ35N	T4-S3-06-B	1	5.34	263625	7.39	919585	10.17	551757	12.45	858875	16.62	803173	18.01	1184095	18.70	851889	
24	2143	jq35odl.d	JQ35O	T4-S3-08-B	3	5.33	288756	7.39	977180	10.17	592069	12.45	956344	16.63	1153655	18.02	1403845	18.73	1236480	

Maintenance / Comments New liner + wool. Clipped column. Cleaned inlet seal

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): cc0807

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-6 Serial No.:GC=US00036167, MS=US81221575

Date: 8/8/06 Analysis: BANs Analyst: LTK

GC Program: ABN1UL Column No: 96972 Column Type: ZB-5

Instrument Tune (.U or .CT.): 060804 EM Voltage: 1835

Calibration File: cc0808 Curve Date: 7/5/06

IS/SS	Ical/Ccal	LCS/ICV
1402-2	1374-3	
	1375-1,2	
	1396-2	

	Time	Filename	LabID	ClientId	DF													
1	1313	cc0808.d	ABN 25		1	5.18	284616	7.25	977404	10.02	544393	12.29	824403	16.45	813838	18.51	837816	17.85 1238353
2	1344	jr75mb.d	JR75MBS1	JR75MBS1	1	7.24	1119684	10.02	662778	12.29	1000583	16.43	908615	18.51	1024311			
3	1414	jr75sb.d	JR75LCSS1	JR75LCSS1	1	7.24	1162162	10.02	671851	12.29	988816	16.44	914371	18.51	997498			
4	1445	jr75o.d	JR75O	F5-S3	1	7.24	1039617	10.02	603128	12.29	906863	16.44	827752	18.50	982500			
5	1516	jr75p.d	JR75P	F5-B2	1	7.24	1186503	10.02	679272	12.29	1019101	16.43	979989	18.51	1187677			
6	1546	jr75q.d	JR75Q	F5-B1	1	7.24	1147532	10.02	680627	12.29	1011298	16.43	935733	18.51	1137276			
7	1617	jr75r.d	JR75R	F5-S2	1	7.24	1189468	10.02	698680	12.29	1004005	16.43	846025	18.51	998395			
8	1647	jr75s.d	JR75S	F5-S4	1	7.24	1020148	10.02	587045	12.29	900616	16.44	1146841	18.52	1515944			
9	1718	jr91a.d	JR91A	F1a-B1	1	7.24	1045847	10.02	591807	12.29	979686	16.45	1319648	18.53	1683603			
10	1748	jr91b.d	JR91B	F1a-S1	1	7.24	1022533	10.02	585526	12.29	856017	16.44	999266	18.52	1254270			
11	1819	jr91c.d	JR91C	F1a-B4	1	7.24	1063481	10.02	619308	12.29	1091782	16.46	1444003	18.53	1774372			
12	1849	jr91d.d	JR91D	F1a-S3	1	7.24	1059964	10.02	614534	12.29	1056003	16.45	1375584	18.53	1747762			
13	1920	jr91e.d	JR91E	F1a-S4	1	7.24	1010946	10.02	580214	12.29	965395	16.45	1290206	18.53	1600057			
14	1950	jq35pdl.d	JQ35P	T4-S3-08-C	3	5.18	261154	7.24	885007	10.02	503719	12.29	788702	16.44	875351	17.84	1346798	18.51 987151
15	2021	jq35pms.d	JQ35PMS	T4-S3-08-C MS	3	5.18	271231	7.24	936915	10.02	544822	12.29	828649	16.44	926797	17.85	1438826	18.51 1015346
16	2052	jq35pmd.d	JQ35PMSD	T4-S3-08-C MSD	3	5.18	281521	7.24	950259	10.02	548682	12.29	840039	16.44	987256	17.84	1454127	18.51 1025007
17	2122	jq52adl.d	JQ52A	T4-S3-02-F-DUP	3	5.18	269854	7.24	911964	10.02	568465	12.30	1098818	16.47	1585341	17.87	2134475	18.55 1668294
18	2153	jq52bdl.d	JQ52B	T4-S3-03-C-DUP	3	5.18	264846	7.24	905100	10.02	541269	12.30	950198	16.45	1780984	17.86	1912241	18.53 1437237
19	2224	jq33adl2.d	JQ33A	T4-B414-01-A	20	5.17	240368	7.24	803640	10.02	461205	12.29	725211	16.45	970689	17.85	1281104	18.52 984600
20	2255	jq33mdl2.d	JQ33M	T4-S3-01-D	20	5.18	277326	7.24	919016	10.02	534851	12.29	848832	16.45	1172991	17.85	1522508	18.53 1194264
21	2325	jq33ndl2.d	JQ33N	T4-S3-01-E	20	5.18	273754	7.24	899719	10.02	524649	12.29	837085	16.46	1312553	17.86	1544766	18.54 1253359
22	2356	jq33odl2.d	JQ33O	T4-S3-01-F	20	5.17	282519	7.24	927925	10.02	542934	12.29	852078	16.46	1231170	17.85	1498055	18.53 1222579
23	0027	jq33pdl2.d	JQ33P	T4-S3-01-G	20	5.17	278183	7.24	906855	10.02	537701	12.29	859359	16.45	1198973	17.85	1585821	18.53 1189512
24	0057	jq33qdl2.d	JQ33Q	T4-S3-01-H	20	5.18	270126	7.24	882589	10.02	511660	12.29	823530	16.46	1351083	17.86	1560322	18.54 1251971

Maintenance / Comments New liner + wool. Clipped column. Cleaned inlet seal.

8/8/06

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): cc0808

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-6 Serial No.:GC=US00036167, MS=US81221575

Date: 8/9/06 Analysis: BANs Analyst: LJK

GC Program: ABN 10L Column No: 96972 Column Type: ZB-5

Instrument Tune (.U or .CT.): 060804 EM Voltage: 1835

Calibration File: cc0809 Curve Date: 7/5/06

IS/SS	Ical/Ccal	LCS/ICV
1402-2	1374-3	
	1375-1,2	
	1396-2	

	Time	Filename	LabID	ClientId	DF													
1	0922	cc0809.d	ABN 25		1	5.10	324892	7.18	1118078	9.95	626364	12.22	965932	16.36	826790	18.42	721459	17.78	1180779
2	1053	jr91adl.d	JR91A	F1a-B1	3	7.17	1097237	9.94	650767	12.21	958775	16.36	759583	18.42	807502				
3	1124	jr91cdl.d	JR91C	F1a-B4	3	7.17	1136694	9.95	659144	12.21	1001399	16.35	824620	18.43	1002632				
4	1155	jr91ddl.d	JR91D	F1a-S3	3	7.17	1091517	9.95	645144	12.21	985479	16.36	791847	18.42	962461				
5	1225	jq52cdl.d	JQ52C	T4-B414-02-A-DUP	3	5.10	328600	7.17	1121955	9.95	660913	12.21	948685	16.36	864219	17.78	1353174	18.43	1061784
6	1255	jq52ddl.d	JQ52D	T4-S3-08-C-DUP	3	5.09	317536	7.17	1087876	9.95	644339	12.21	981426	16.36	820983	17.77	1223600	18.42	890507
7	1326	jq52bdl2.d	JQ52B	T4-S3-03-C-DUP	5	5.09	290792	7.17	999285	9.95	596369	12.22	947189	16.37	1063368	17.78	1381975	18.43	1115911
8	1357	jq35jdl2.d	JQ35J	T4-S3-05-G	20	5.09	292461	7.17	1011267	9.95	604786	12.21	922058	16.36	798013	17.78	1170038	18.43	907745
9	1427	jq35kdl2.d	JQ35K	T4-S3-05-H	20	5.09	315959	7.17	1091310	9.95	651453	12.21	991469	16.36	839550	17.77	1219579	18.43	980696

LJK 8/10/06

Maintenance / Comments New liner + wool. Clipped column. Cleaned inlet seal

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): cc0809

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 20060710
Sample Matrix: NONE Fraction: SV
Lab Smp Id: GPC1 CAL
Level: Operator: LJR
Data Type: MS DATA SampleType: LCS
SpikeList File: GPC.spk Quant Type: ISTD
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20060710.b/SW846.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
3 Phenol	37.50	24.26	64.71	
6 2-Chlorophenol	37.50	23.43	62.48	
9 1,4-Dichlorobenzen	25.00	15.58	62.30	
16 N-Nitroso-di-n-pro	25.00	15.98	63.90	
26 1,2,4-Trichloroben	25.00	15.76	63.04	
31 4-Chloro-3-methylp	37.50	26.82	71.53	
44 Acenaphthene	25.00	17.96	71.85	
47 4-Nitrophenol	37.50	28.02	74.73	
48 2,4-Dinitrotoluene	25.00	18.14	72.56	
58 Pentachlorophenol	37.50	27.62	73.64	
65 Pyrene	25.00	21.65	86.60	
73 Di-n-octylphthalat	25.00	19.09	76.37	
80 Benzo(g,h,i)peryle	25.00	16.89	67.55	

SURROGATE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	37.50	23.34	62.25	
$ 2 Phenol-d5	37.50	26.14	69.70	
$ 5 2-Chlorophenol-d4	37.50	25.15	67.06	
$ 10 1,2-Dichlorobenzen	25.00	15.90	63.58	
$ 18 Nitrobenzene-d5	25.00	17.74	70.94	
$ 36 2-Fluorobiphenyl	25.00	18.27	73.09	
$ 55 2,4,6-Tribromophen	37.50	29.71	79.23	
$ 66 Terphenyl-d14	25.00	24.08	96.31	

Analytical Resources,Incorporated
Analytical Chemists and Consultants

GPC 1 Log

Date: 7/31/06 Initial Run Number: 1

Analyst: PC

Loop Number	ARI Lab ID	Aliquot Loaded
1	Acetone	1:1 (10mL)
2	DCM	↓
3	JQ90 mbs	1:2 (4mL)
4	A	
5	B	
6	sbs	
7	Ams	
8	Amsd	
9	DCM	1:1 (10mL)
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		

Comments / Program Name

Flow Rate: 4.8 mL/min
(Average of two measurements)

	Method	PCB Program
BAN program		
29	Dump	
61	Collect	
67	Wash	

Stop Time: 67.15

Analyst: PC

Lab Temp 21.6°C (64 - 77°F)

Collection Line Witness: N/A Before Run

After Run

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GPC 1 Log

Date: 8/1/06 Initial Run Number: 1

Analyst: TH

Loop Number	ARI Lab ID	Aliquot Loaded
1	Acetone	1:1 (10ML)
2	DCM	↓
3	J6235MBS 7/31	1:2 (4ML)
4	A	
5	B	
6	C	
7	D	
8	E	
9	F	
10	G	
11	H	
12	I	
13	J	
14	K	
15	L	
16	M	
17		
18		
19		
20		
21		
22		
23		

Comments / Program Name

Flow Rate: 4.8 mL/min
(Average of two measurements)

Method

BAN program		PCB Program
29	Dump	
61	Collect	
67	Wash	

Stop Time: 67.15

Analyst: TH

Lab Temp 22.8°C (64 - 77°F)

Collection Line Witness — Before Run: _____ After Run: SP 8/2/06

NWTPH-Dx Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL

PROJECT: T4 EARLY ACTION, 050332-01

ARI JOB NO: JQ35

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01

Client ID	OTER	TOT OUT
T4-S3-02-C	67.7%	0
T4-S3-02-D	NR	0
T4-S3-02-E	69.3%	0
T4-S3-02-F	60.2%	0
T4-S3-03-B	74.1%	0
T4-S3-03-C	62.9%	0
T4-S3-03-D	68.7%	0
T4-S3-05-E	64.2%	0
T4-S3-05-F	63.3%	0
T4-S3-05-G	54.0%	0
T4-S3-05-H	69.2%	0
T4-S3-05-J	73.8%	0
T4-S3-06-A	55.6%	0
T4-S3-06-B	71.8%	0
T4-S3-08-B	62.8%	0
072806MBS	70.7%	0
072806LCS	73.3%	0
T4-S3-08-C	59.6%	0
T4-S3-08-C	MS 77.8%	0
T4-S3-08-C	MSD71.3%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(56-108)	(38-118)

Prep Method: SW3550B
Log Number Range: 06-12956 to 06-12971

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: T4-S3-08-C
MS/MSD

Lab Sample ID: JQ35P
LIMS ID: 06-12971
Matrix: Sediment
Data Release Authorized:
Reported: 08/03/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Date Extracted MS/MSD: 07/28/06

Date Analyzed MS: 08/01/06 21:36
MSD: 08/01/06 21:52
Instrument/Analyst MS: FID3A/JGR
MSD: FID3A/JGR

Sample Amount MS: 8.36 g-dry-wt
MSD: 8.33 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 1.00
MSD: 1.00
Percent Moisture: 16.7%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	6.2	141	179	75.3%	137	180	72.7%	2.9%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	77.8%	71.3%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID **Sample ID: LCS-072806**
Page 1 of 1 **LAB CONTROL**

Lab Sample ID: LCS-072806
LIMS ID: 06-12971
Matrix: Sediment
Data Release Authorized:
Reported: 08/03/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 07/28/06
Date Analyzed: 08/01/06 14:36
Instrument/Analyst: FID3A/JGR

Sample Amount: 10.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	108	150	72.0%

TPHD Surrogate Recovery

o-Terphenyl	73.3%

Results reported in mg/kg

4

TPH METHOD BLANK SUMMARY

BLANK NO.

JQ53MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIR

SDG No.: JQ35 Project No.: T4 EARLY ACTION

Date Extracted: 10/06/03 Matrix: SEDIMENT

Date Analyzed : 08/01/06 Instrument ID : FID3A

Time Analyzed : 1421

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	JQ53LCSS1	JQ53LCSS1	08/01/06
02	T4-S3-02-C	JQ35A	08/01/06
03	T4-S3-02-D	JQ35B	08/01/06
04	T4-S3-02-E	JQ35C	08/01/06
05	T4-S3-02-F	JQ35D	08/01/06
06	T4-S3-03-B	JQ35E	08/01/06
07	T4-S3-03-C	JQ35F	08/01/06
08	T4-S3-03-D	JQ35G	08/01/06
09	T4-S3-05-E	JQ35H	08/01/06
10	T4-S3-05-F	JQ35I	08/01/06
11	T4-S3-05-G	JQ35J	08/01/06
12	T4-S3-05-H	JQ35K	08/01/06
13	T4-S3-05-J	JQ35L	08/01/06
14	T4-S3-06-A	JQ35M	08/01/06
15	T4-S3-06-B	JQ35N	08/01/06
16	T4-S3-08-B	JQ35O	08/01/06
17	T4-S3-08-C	JQ35P	08/01/06
18	T4-S3-08-C M	JQ35PMS	08/01/06
19	T4-S3-08-C M	JQ35PMSD	08/01/06

FORM IV TPH

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIROMENTAL

SDG No.: JQ35 Project: T4 EARLY ACTION

Instrument ID: FID3A GC Column: RTX-1

Run Date: 07/21/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.03 TRIAC: 5.26

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	RT	RT	07/15/06	1449	4.03	5.26
02	IB	IB	07/15/06	1505	4.03	5.26
03	ZZZZZ	ZZZZZ	07/15/06	1521	4.03	5.24
04	50 PPM DIESE	50 PPM DIESE	07/15/06	1537	4.03	5.26
05	100 PPM DIES	100 PPM DIES	07/15/06	1553	4.03	5.26
06	250 PPM DIES	250 PPM DIES	07/15/06	1608	4.03	5.26
07	500 PPM DIES	500 PPM DIES	07/15/06	1624	4.04	5.27
08	1000 PPM DIE	1000 PPM DIE	07/15/06	1640	4.05	5.27
09	2500 PPM DIE	2500 PPM DIE	07/15/06	1656	4.07	5.26
10	DIESEL ICV	DIESEL ICV	07/15/06	1712	4.03	5.27
11	DIESEL CVS	DIESEL CVS	07/15/06	1728	4.03	5.27
12	50 PPM JETA	50 PPM JETA	07/15/06	1744	4.02	5.26
13	100 PPM JETA	100 PPM JETA	07/15/06	1759	4.02	5.26
14	250 PPM JETA	250 PPM JETA	07/15/06	1815	4.03	5.25
15	500 PPM JETA	500 PPM JETA	07/15/06	1831	4.03	5.27
16	1000 PPM JET	1000 PPM JETA	07/15/06	1847	4.04	5.26
17	2500 PPM JET	2500 PPM JETA	07/15/06	1903	4.07	5.26
18	JETA CVS	JETA CVS	07/15/06	1919	4.03	5.26
19	100 PPM MOIL	100 PPM MOIL	07/15/06	1935	4.03	5.25
20	250 PPM MOIL	250 PPM MOIL	07/15/06	1950	4.03	5.25
21	500 PPM MOIL	500 PPM MOIL	07/15/06	2006	4.03	5.26
22	1000 PPM MOI	1000 PPM MOI	07/15/06	2022	4.02	5.27
23	2500 PPM MOI	2500 PPM MOI	07/15/06	2038	4.02	5.30
24	5000 PPM MOI	5000 PPM MOI	07/15/06	2054	4.04	5.34*
25	MOIL ICV	MOIL ICV	07/15/06	2109	4.03	5.26
26	MOIL CVS	MOIL CVS	07/15/06	2125	4.03	5.26

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

FORM VIII TPH

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIR

SDG No.: JQ35 Project: T4 EARLY ACTION

Instrument ID: FID3A GC Column: RTX-1

Run Date: 08/01/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.01 TRIAC: 5.22

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	ZZZZZ	ZZZZZ	08/01/06	1303	4.02	5.23
02	RT	RT	08/01/06	1318	4.01	5.22
03	IB	IB	08/01/06	1334	4.01	5.22
04	DIESEL#1	DIESEL#1	08/01/06	1350	4.01	5.23
05	MOIL#1	MOIL#1	08/01/06	1405	4.01	5.22
06	JQ53MBS1	JQ53MBS1	08/01/06	1421	4.01	5.21
07	JQ53LCSS1	JQ53LCSS1	08/01/06	1436	4.02	5.21
08	ZZZZZ	ZZZZZ	08/01/06	1452	4.01	5.21
09	ZZZZZ	ZZZZZ	08/01/06	1508	4.01	5.21
10	ZZZZZ	ZZZZZ	08/01/06	1523	4.01	5.22
11	ZZZZZ	ZZZZZ	08/01/06	1539	4.01	5.21
12	T4-S3-02-C	JQ35A	08/01/06	1554	4.00	5.21
13	T4-S3-02-D	JQ35B	08/01/06	1610		
14	T4-S3-02-E	JQ35C	08/01/06	1626	4.01	5.21
15	ZZZZZ	ZZZZZ	08/01/06	1641	4.01	5.21
16	DIESEL#2	DIESEL#2	08/01/06	1657	4.01	5.24
17	MOIL#2	MOIL#2	08/01/06	1713	4.01	5.22
18	T4-S3-02-F	JQ35D	08/01/06	1728	4.01	5.21
19	T4-S3-03-B	JQ35E	08/01/06	1744	4.00	5.21
20	T4-S3-03-C	JQ35F	08/01/06	1759	4.02	5.24
21	T4-S3-03-D	JQ35G	08/01/06	1815	4.01	5.23
22	T4-S3-05-E	JQ35H	08/01/06	1830	4.00	5.20
23	T4-S3-05-F	JQ35I	08/01/06	1846	4.00	5.20
24	T4-S3-05-G	JQ35J	08/01/06	1901	4.00	5.20
25	T4-S3-05-H	JQ35K	08/01/06	1917	4.00	5.21
26	T4-S3-05-J	JQ35L	08/01/06	1932	4.00	5.21
27	ZZZZZ	ZZZZZ	08/01/06	1948	4.01	5.21
28	DIESEL#3	DIESEL#3	08/01/06	2003	4.01	5.23
29	MOIL#3	MOIL#3	08/01/06	2019	4.02	5.21
30	T4-S3-06-A	JQ35M	08/01/06	2034	4.00	5.20
31	T4-S3-06-B	JQ35N	08/01/06	2050	4.00	5.21
32	T4-S3-08-B	JQ35O	08/01/06	2106	4.00	5.20

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

FORM VIII TPH

8

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIR

SDG No.: JQ35 Project: T4 EARLY ACTION

Instrument ID: FID3A GC Column: RTX-1

Run Date: 08/01/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.01 TRIAC: 5.22

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	T4-S3-08-C	JQ35P	08/01/06	2121	4.00	5.21
02	T4-S3-08-C M	JQ35PMS	08/01/06	2136	4.01	5.21
03	T4-S3-08-C M	JQ35PMSD	08/01/06	2152	4.01	5.21
04	ZZZZZ	ZZZZZ	08/01/06	2207	4.00	5.21
05	DIESEL#4	DIESEL#4	08/01/06	2223	4.01	5.23
06	MOIL#4	MOIL#4	08/01/06	2238	4.00	5.21

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

NWTPH-Dx Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL

PROJECT: T4 EARLY ACTION, 050332-01

ARI JOB NO: JQ35

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 2
Matrix: Sediment

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Received: 07/21/06

Data Release Authorized:
Reported: 08/03/06

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result
JQ35A	T4-S3-02-C	07/28/06	08/01/06	5.0	**Diesel**	**150**
06-12956	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**400**
					o-Terphenyl	67.7%
JQ35B	T4-S3-02-D	07/28/06	08/01/06	5.0	**Diesel**	**580**
06-12957	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**1,500**
					o-Terphenyl	NR
JQ35C	T4-S3-02-E	07/28/06	08/01/06	5.0	**Diesel**	**290**
06-12958	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**640**
					o-Terphenyl	69.3%
JQ35D	T4-S3-02-F	07/28/06	08/01/06	5.0	**Diesel**	**610**
06-12959	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**680**
					o-Terphenyl	60.2%
JQ35E	T4-S3-03-B	07/28/06	08/01/06	5.0	**Diesel**	**270**
06-12960	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**500**
					o-Terphenyl	74.1%
JQ35F	T4-S3-03-C	07/28/06	08/01/06	1.0	**Diesel**	**400**
06-12961	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**540**
					o-Terphenyl	62.9%
JQ35G	T4-S3-03-D	07/28/06	08/01/06	1.0	**Diesel**	**270**
06-12962	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**320**
					o-Terphenyl	68.7%
JQ35H	T4-S3-05-E	07/28/06	08/01/06	5.0	**Diesel**	**150**
06-12963	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**350**
					o-Terphenyl	64.2%
JQ35I	T4-S3-05-F	07/28/06	08/01/06	5.0	**Diesel**	**340**
06-12964	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**720**
					o-Terphenyl	63.3%
JQ35J	T4-S3-05-G	07/28/06	08/01/06	5.0	**Diesel**	**320**
06-12965	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**650**
					o-Terphenyl	54.0%
JQ35K	T4-S3-05-H	07/28/06	08/01/06	5.0	**Diesel**	**440**
06-12966	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**960**
					o-Terphenyl	69.2%
JQ35L	T4-S3-05-J	07/28/06	08/01/06	1.0	**Diesel**	**7.6**
06-12967	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**16**
					o-Terphenyl	73.8%
JQ35M	T4-S3-06-A	07/28/06	08/01/06	5.0	**Diesel**	**140**
06-12968	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**300**
					o-Terphenyl	55.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 2 of 2
Matrix: Sediment

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Received: 07/21/06

Data Release Authorized:
Reported: 08/03/06

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result
JQ35N	T4-S3-06-B	07/28/06	08/01/06	1.0	Diesel	< 6.5 U
06-12969	HC ID: ---		FID3A		Motor Oil	< 13 U
					o-Terphenyl	71.8%
JQ35O	T4-S3-08-B	07/28/06	08/01/06	5.0	**Diesel**	**130**
06-12970	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**280**
					o-Terphenyl	62.8%
MB-072806	Method Blank	07/28/06	08/01/06	1.0	Diesel	< 5.0 U
06-12971	HC ID: ---		FID3A		Motor Oil	< 10 U
					o-Terphenyl	70.7%
JQ35P	T4-S3-08-C	07/28/06	08/01/06	1.0	**Diesel**	**6.2**
06-12971	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**14**
					o-Terphenyl	59.6%

Reported in mg/kg (ppm)

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a012.d ARI ID: JQ35A
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 15:54
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 5
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.243	-0.007	16707	20719	GAS (Tol-C12)	165769	8
C8	1.418	-0.018	30312	29784	DIESEL (C12-C24)	1977637	160
C10	2.656	-0.003	96	11	M.OIL (C24-C38)	4036900	428
C12	3.128	-0.010	1547	1633	AK-102 (C10-C25)	2057505	142
C14	3.446	0.003	3524	1234	AK-103 (C25-C36)	3710134	584
C16	3.698	-0.003	10713	8299			
C18	3.933	-0.004	18010	16122			
C20	4.162	0.001	21486	19920			
C22	4.381	0.002	73727	41023	STODDARD (C8-C12)	81351	5
C24	4.587	-0.005	41733	35901			
C25	4.703	0.006	35644	23130			
C26	4.806	0.006	45224	60935			
C28	5.023	0.016	120670	145401			
C32	5.418	-0.008	61152	102564			
C34	5.636	0.004	35966	13355			
Filter Peak	6.207	0.002	12690	10015			
C36	5.831	0.000	29324.0	7538	o-Terph Surrogate Rec = 67.7%		(110835)
C38	6.043	0.008	17477.0	10985	Triacon Surrogate Rec = 85.3%		(117253)
C40	6.294	0.008	10738	6627			
o-terph	4.005	-0.010	348846	110835	JET-A (C10-C18)	451970	39
Triacon Surr	5.205	-0.019	193211	117253			

JR 08/03/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a012.d

Date : 01-AUG-2006 15:54

Client ID:

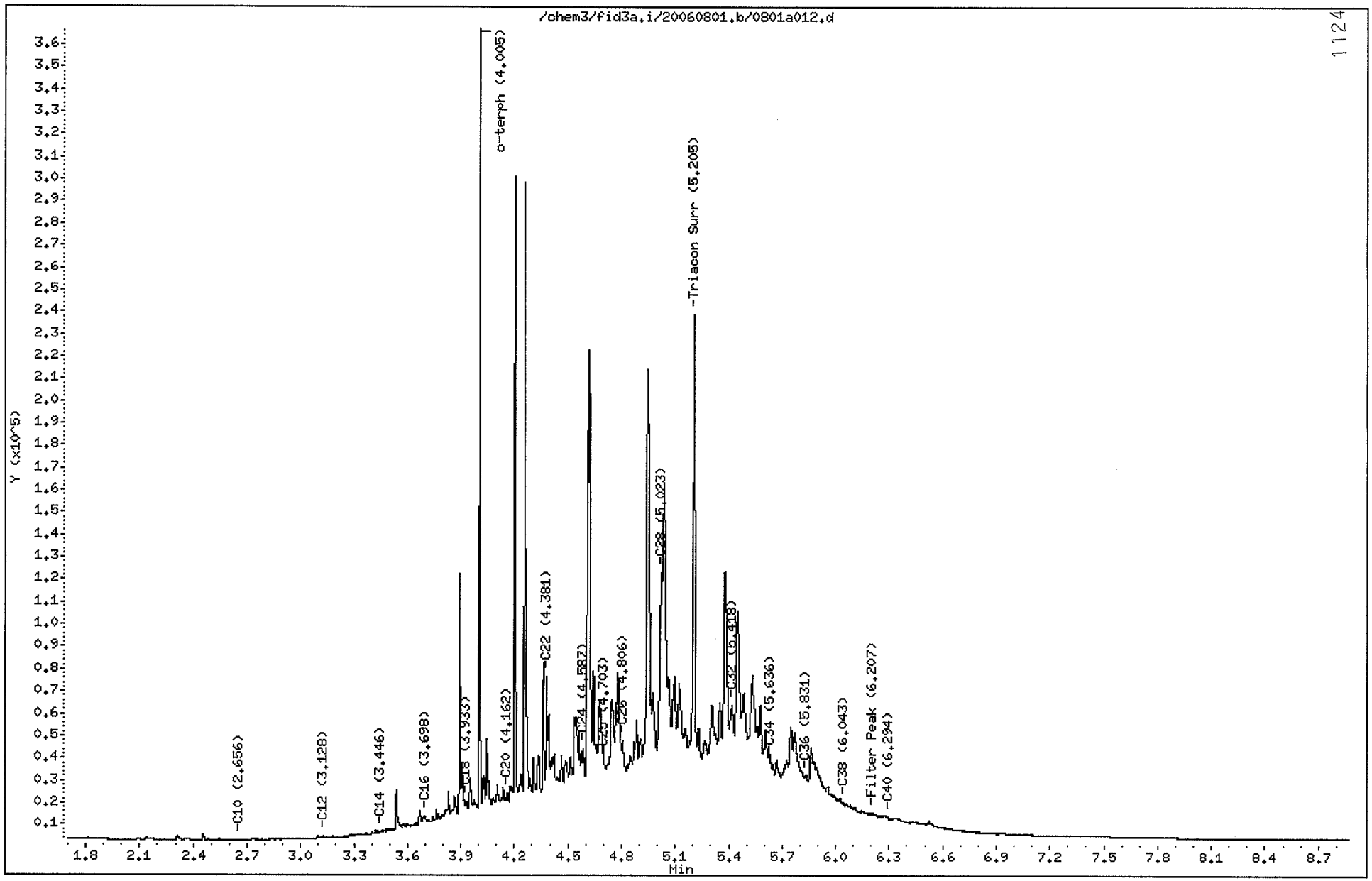
Sample Info: JQ35A,5

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a013.d ARI ID: JQ35B
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 16:10
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 5
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.269	0.018	10611	37281	GAS (Tol-C12)	143303	7
C8	1.432	-0.005	2388	3239	DIESEL (C12-C24)	1655961	134
C10	2.663	0.004	115	82	M.OIL (C24-C38)	3250739	345
C12	3.115	-0.023	2850	4556	AK-102 (C10-C25)	1695405	117
C14	3.451	0.008	2738	2020	AK-103 (C25-C36)	3092007	487
C16	3.689	-0.012	13310	12357			
C18	3.928	-0.009	10245	9181			
C20	4.159	-0.001	10282	9070			
C22	4.379	0.000	83120	39851	STODDARD (C8-C12)	69223	5
C24	4.583	-0.009	30084	25970			
C25	4.705	0.007	19960	7468			
C26	4.803	0.003	28737	28822			
C28	5.035	0.028	183322	367376			
C32	5.417	-0.009	58458	55236			
C34	5.630	-0.002	26540	20639			
Filter Peak	6.200	-0.006	9856	13057			
C36	5.833	0.002	23054.0	28056	o-Terph Surrogate Rec =	0.0%	(0)
C38	6.040	0.005	11610.0	2996	Triacon Surrogate Rec =	0.0%	(0)
C40	6.284	-0.001	8074	2402			
o-terph	----				JET-A (C10-C18)	357232	31
Triacon Surr	----						

JR 08/03/06

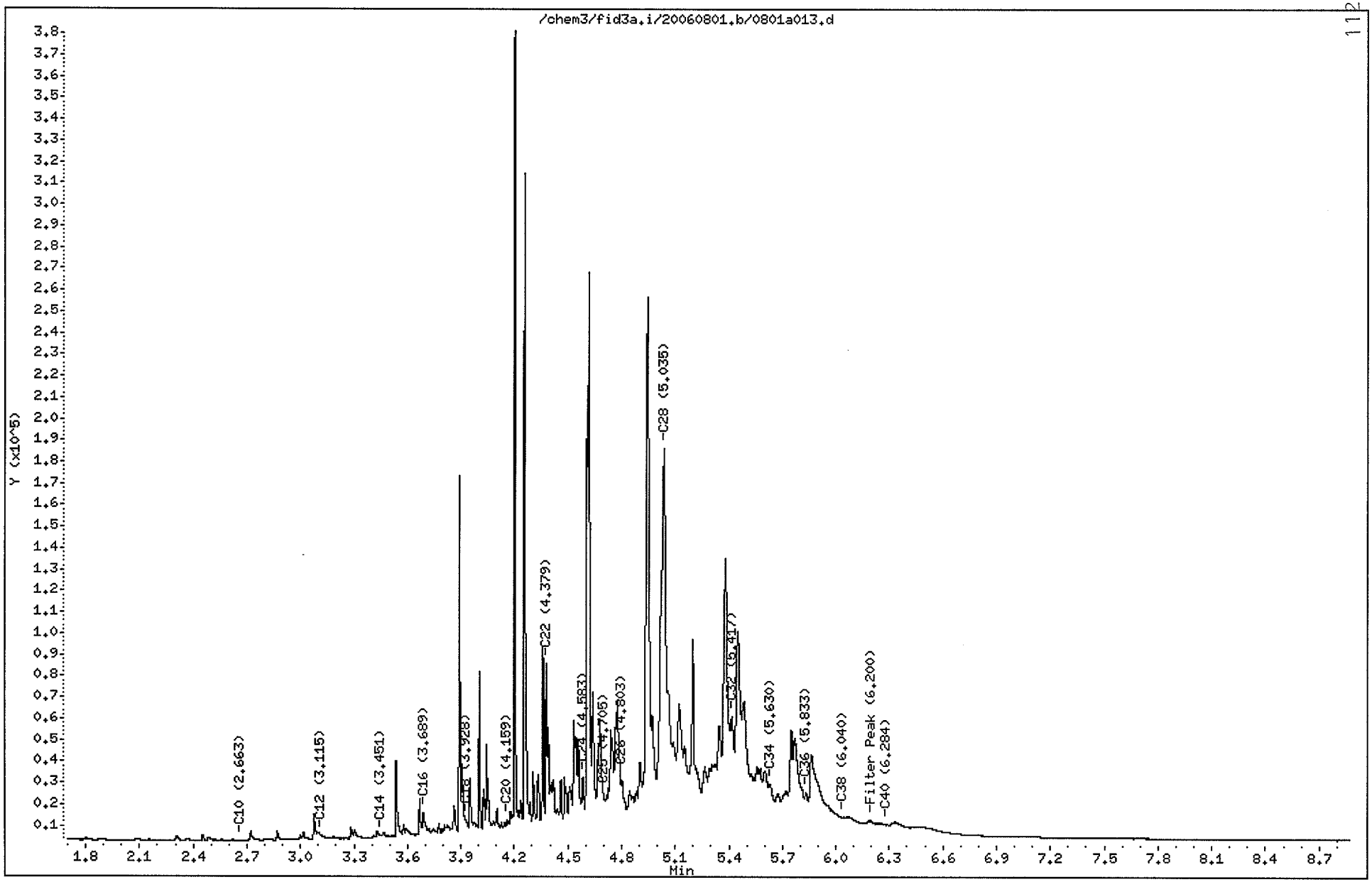
Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a013.d
Date : 01-AUG-2006 16:10
Client ID:
Sample Info: JQ35B,5

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a014.d ARI ID: JQ35C
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 16:26
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 5
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.237	-0.013	21322	28631	GAS (Tol-C12)	216635	11
C8	1.440	0.004	1675	1859	DIESEL (C12-C24)	4315886	349
C10	2.662	0.004	566	418	M.OIL (C24-C38)	7401559	785
C12	3.125	-0.013	2968	3966	AK-102 (C10-C25)	4359886	300
C14	3.449	0.006	7361	4805	AK-103 (C25-C36)	6900623	1087
C16	3.696	-0.005	23179	20490			
C18	3.928	-0.009	33522	27988			
C20	4.160	-0.001	41617	40862			
C22	4.384	0.006	152850	99420	STODDARD (C8-C12)	94338	6
C24	4.591	0.000	74150	48183			
C25	4.690	-0.007	119172	130364			
C26	4.786	-0.013	147437	235101			
C28	5.006	-0.001	96987	11559			
C32	5.421	-0.005	133717	72146			
C34	5.623	-0.008	80007	80318			
Filter Peak	6.204	-0.002	22328	8729			
C36	5.838	0.007	53121.0	16733	o-Terph Surrogate Rec = 69.3%		(113507)
C38	6.031	-0.004	31898.0	26389	Triacon Surrogate Rec = 83.2%		(114352)
C40	6.283	-0.003	20262	14920			
o-terph	4.005	-0.009	335032	113507	JET-A (C10-C18)	984087	81
Triacon Surr	5.208	-0.016	178281	114352			

JR 08/03/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a014.d

Date : 01-AUG-2006 16:26

Client ID:

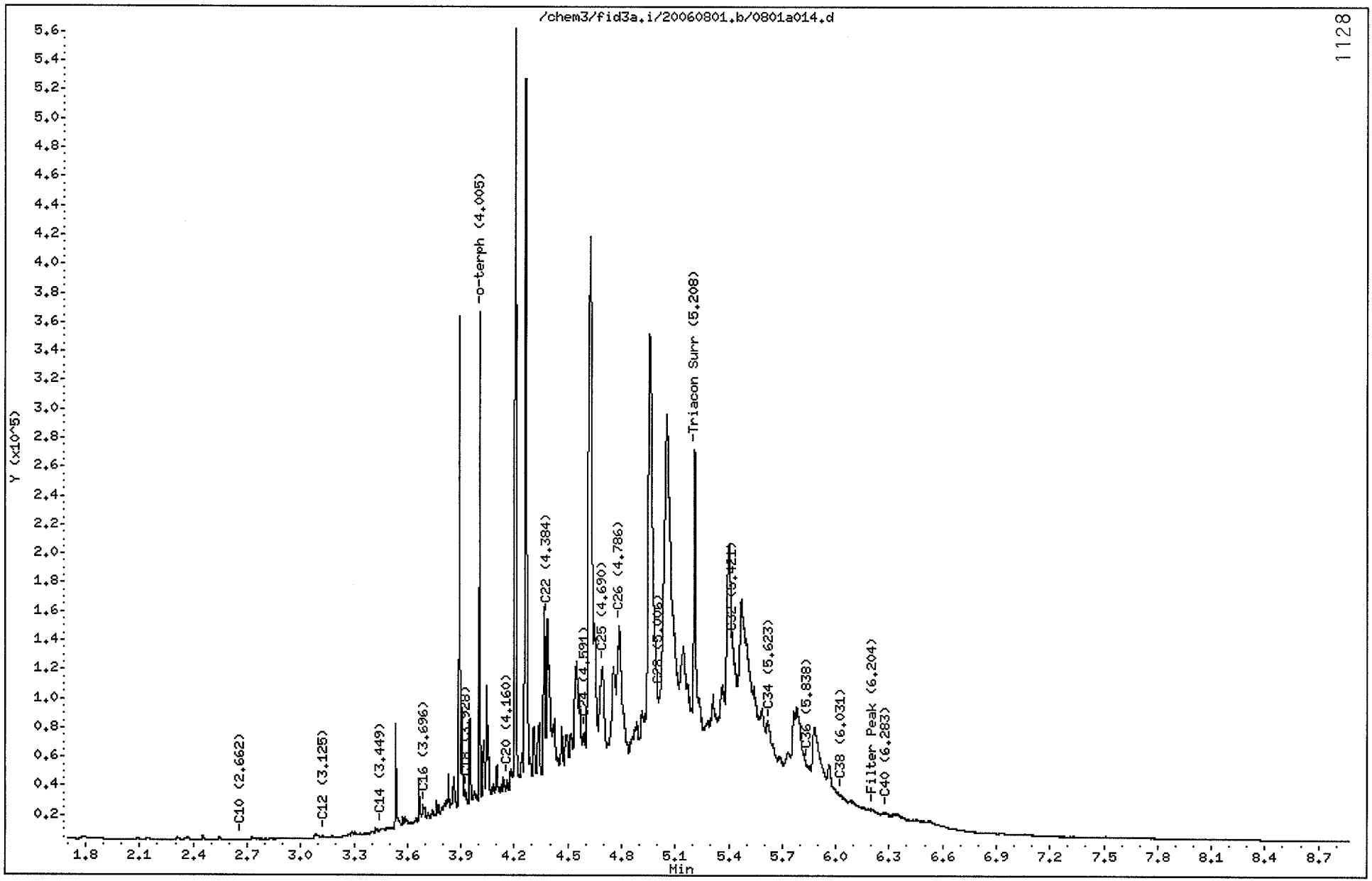
Sample Info: JQ35C,5

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a018.d ARI ID: JQ35D
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 17:28
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 5
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.245	-0.005	15434	19597	GAS (Tol-C12)	257708	13
C8	1.428	-0.008	7188	7332	DIESEL (C12-C24)	8330106	673
C10	2.662	0.003	794	778	M.OIL (C24-C38)	7070825	750
C12	3.134	-0.004	10848	6336	AK-102 (C10-C25)	8597649	592
C14	3.438	-0.005	44630	19824	AK-103 (C25-C36)	6455523	1017
C16	3.695	-0.006	117052	72366			
C18	3.934	-0.003	143696	111221			
C20	4.161	0.001	123342	82801			
C22	4.383	0.004	120358	43837	STODDARD (C8-C12)	176904	12
C24	4.587	-0.004	94714	61132			
C25	4.692	-0.006	99629	62415			
C26	4.798	-0.002	93828	34760			
C28	4.995	-0.012	93284	31242			
C32	5.420	-0.006	90057	83535			
C34	5.630	-0.001	77296	22894			
Filter Peak	6.202	-0.004	27008	12510			
C36	5.836	0.005	57257.0	21508	o-Terph Surrogate Rec = 60.2%		(98646)
C38	6.032	-0.003	40979.0	33922	Triacon Surrogate Rec = 60.6%		(83278)
C40	6.287	0.001	23334	6001			
o-terph	4.007	-0.007	275640	98646	JET-A (C10-C18)	4115477	355
Triacon Surr	5.210	-0.015	112191	83278			

08/03/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a018.d

Date : 01-AUG-2006 17:28

Client ID:

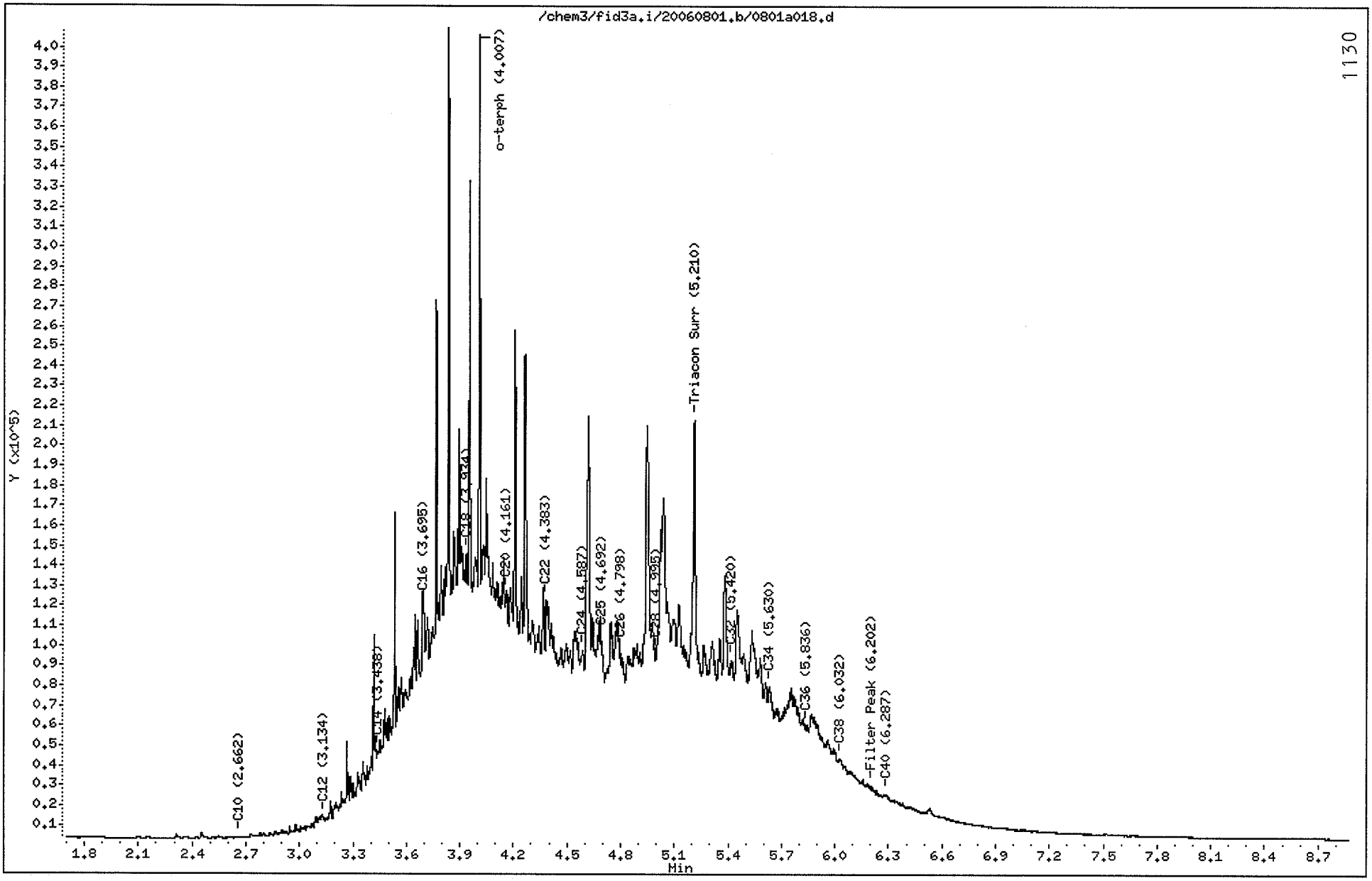
Sample Info: JQ35D,5

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a019.d ARI ID: JQ35E
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 17:44
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 5
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.246	-0.004	17176	21398	GAS (Tol-C12)	170573	9
C8	1.424	-0.013	15691	14127	DIESEL (C12-C24)	3722186	301
C10	2.663	0.005	281	314	M.OIL (C24-C38)	5222817	554
C12	3.137	-0.001	3076	1752	AK-102 (C10-C25)	3769331	260
C14	3.442	-0.001	10686	4902	AK-103 (C25-C36)	4847801	764
C16	3.707	0.006	23484	2803			
C18	3.940	0.003	37828	7501			
C20	4.158	-0.002	53948	46723			
C22	4.380	0.001	100037	62199	STODDARD (C8-C12)	87991	6
C24	4.583	-0.009	66955	46968			
C25	4.714	0.017	56660	19987			
C26	4.797	-0.003	61987	11130			
C28	5.020	0.013	136120	137950			
C32	5.417	-0.009	71111	58888			
C34	5.637	0.005	50669	15793			
Filter Peak	6.205	0.000	18576	12675			
C36	5.835	0.004	40579.0	16016	o-Terph Surrogate Rec = 74.1%		(121334)
C38	6.040	0.005	26715.0	17288	Triacon Surrogate Rec = 77.8%		(106977)
C40	6.282	-0.004	17419	18323			
o-terph	4.005	-0.010	359227	121334	JET-A (C10-C18)	1126712	97
Triacon Surr	5.206	-0.019	160891	106977			

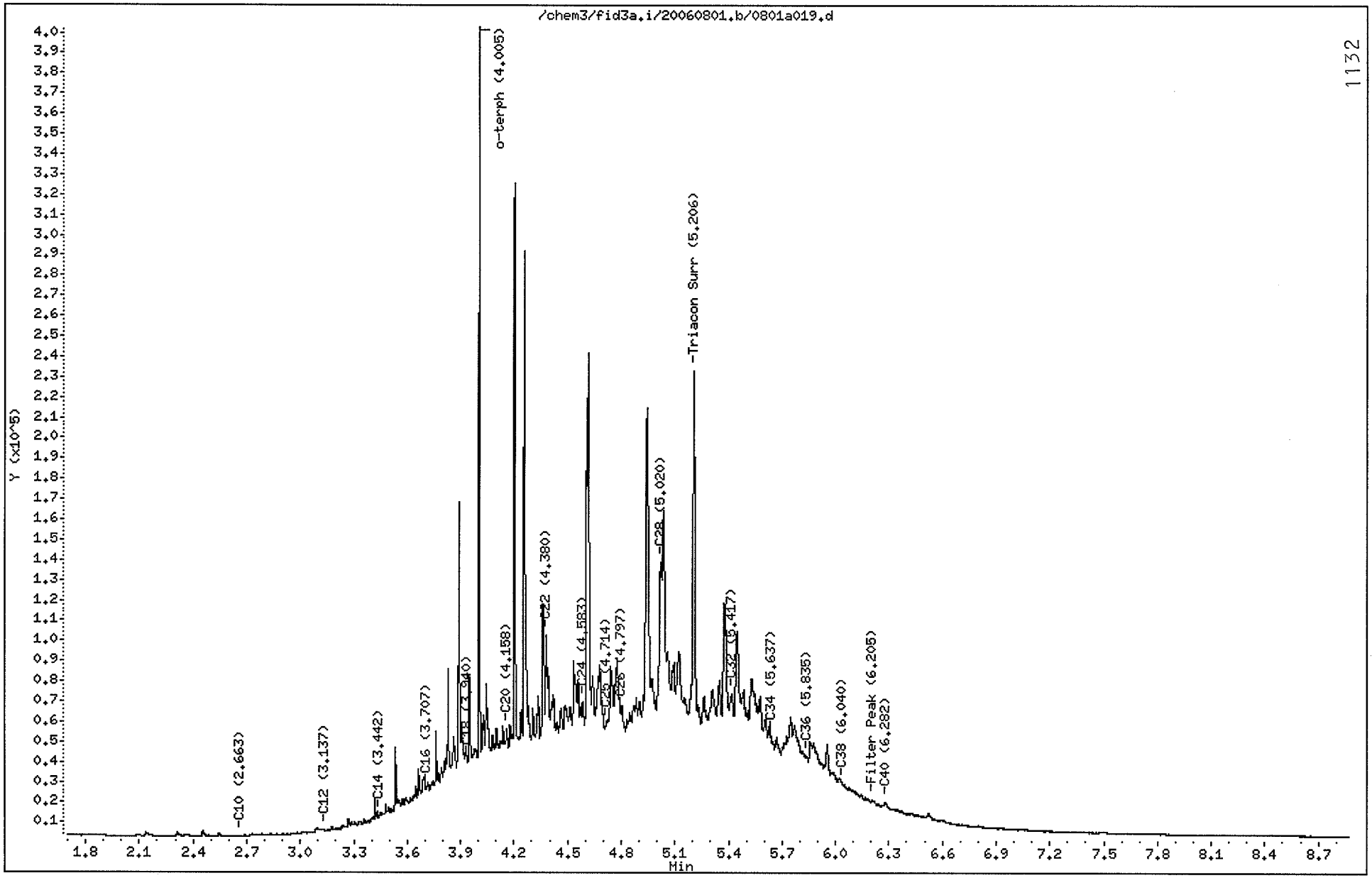
JR 08/03/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a019.d
Date : 01-AUG-2006 17:44
Client ID:
Sample Info: JQ35E,5

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a020.d ARI ID: JQ35F
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 17:59
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.241	-0.010	35459	47204	GAS (Tol-C12)	705433	35
C8	1.414	-0.022	72838	52645	DIESEL (C12-C24)	29322710	2369
C10	2.657	-0.002	2805	2750	M.OIL (C24-C38)	30227753	3205
C12	3.145	0.007	28701	15306	AK-102 (C10-C25)	29721255	2048
C14	3.437	-0.006	141761	71793	AK-103 (C25-C36)	27623353	4351
C16	3.699	-0.002	345677	267730			
C18	3.934	-0.003	443610	114442			
C20	4.159	-0.002	481279	160597			
C22	4.380	0.001	407656	96580	STODDARD (C8-C12)	543534	36
C24	4.589	-0.003	407939	120159			
C25	4.697	-0.001	431400	178836			
C26	4.799	-0.001	414790	145619			
C28	5.005	-0.002	421899	254491			
C32	5.426	0.000	374507	185272			
C34	5.635	0.004	348622	41537			
Filter Peak	6.207	0.002	115128	31733			
C36	5.832	0.001	277367.0	146825	o-Terph Surrogate Rec = 62.9%		(515012)
C38	6.035	0.000	191143.0	157129	Triacon Surrogate Rec = 66.6%		(457754)
C40	6.279	-0.007	93171	51858			
o-terph	4.018	0.003	604621	515012	JET-A (C10-C18)	12733366	1100
Triacon Surr	5.243	0.019	270938	457754			

JR 08/03/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a020.d

Date : 01-AUG-2006 17:59

Client ID:

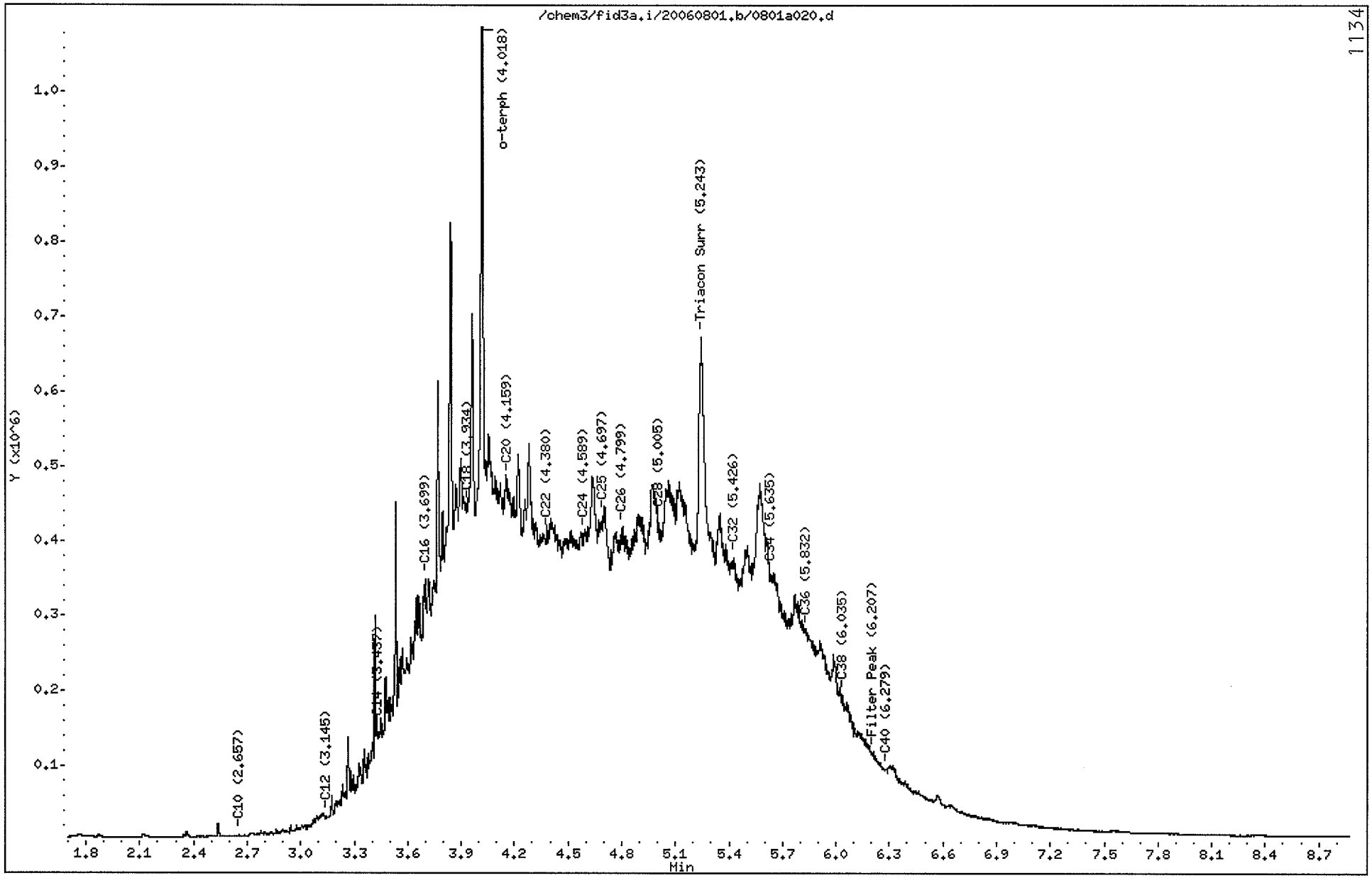
Sample Info: JQ35F

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a021.d ARI ID: JQ35G
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 18:15
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.244	-0.006	37710	47736	GAS (Tol-C12)	815491	41
C8	1.418	-0.018	44468	34445	DIESEL (C12-C24)	22803348	1843
C10	2.656	-0.003	4841	5083	M.OIL (C24-C38)	20522627	2176
C12	3.131	-0.007	39014	20477	AK-102 (C10-C25)	23348210	1609
C14	3.437	-0.006	127721	51812	AK-103 (C25-C36)	18883683	2974
C16	3.697	-0.004	276104	193092			
C18	3.937	0.000	332617	112187			
C20	4.165	0.005	349247	171153			
C22	4.383	0.005	597736	978555	STODDARD (C8-C12)	672790	45
C24	4.592	0.000	291378	69558			
C25	4.695	-0.003	307897	120374			
C26	4.802	0.002	290171	102991			
C28	5.005	-0.002	293251	92243			
C32	5.425	-0.001	249622	98489			
C34	5.628	-0.003	228075	143238			
Filter Peak	6.209	0.004	79100	28148			
C36	5.830	-0.001	189002.0	74570	o-Terph Surrogate Rec = 68.7%		(562532)
C38	6.040	0.005	128490.0	42922	Triacon Surrogate Rec = 74.1%		(509406)
C40	6.284	-0.002	70409	24458			
o-terph	4.014	0.000	763076	562532	JET-A (C10-C18)	10432018	901
Triacon Surr	5.232	0.007	350175	509406			

JR 08/03/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a021.d

Date : 01-AUG-2006 18:15

Client ID:

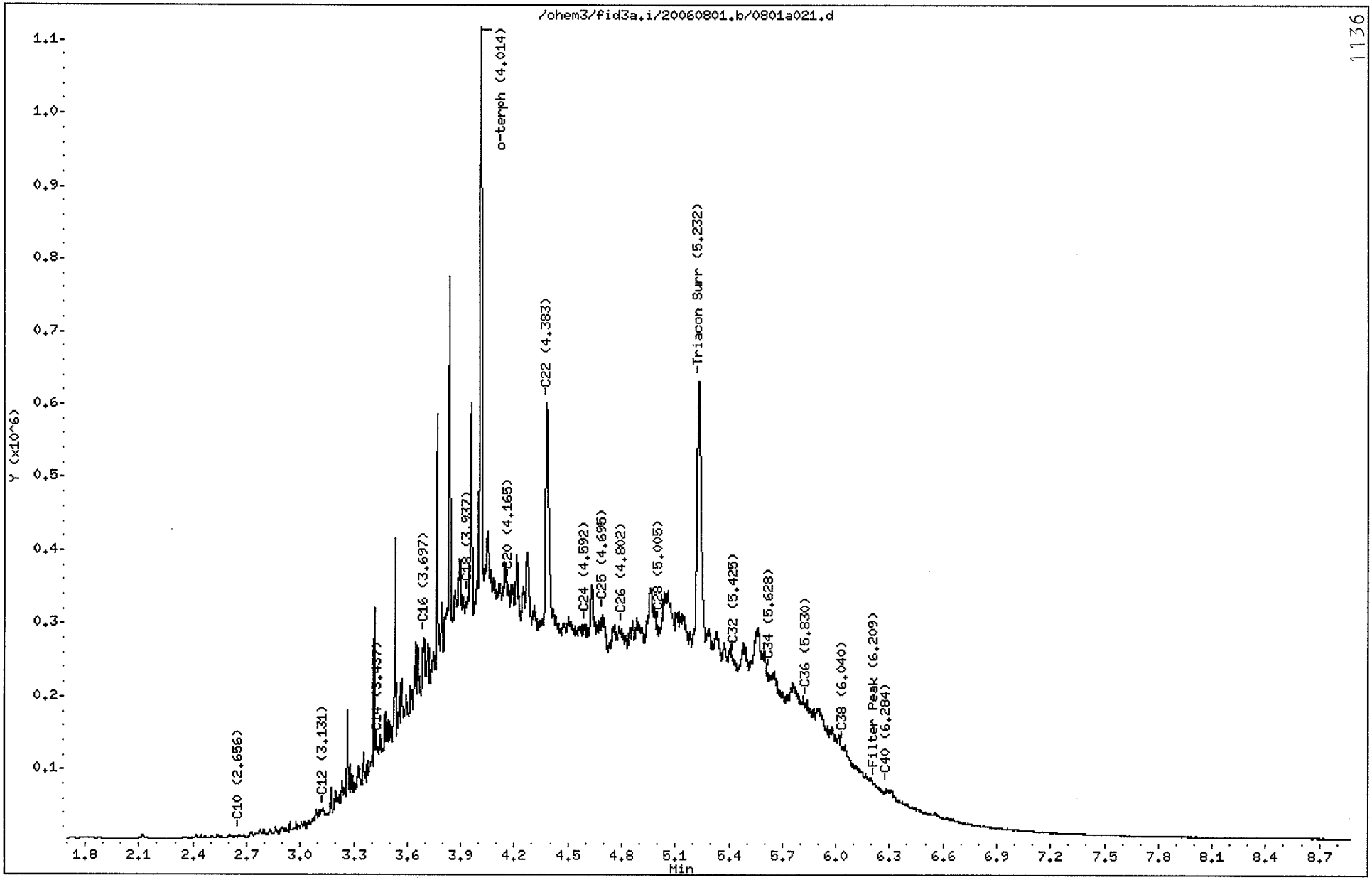
Sample Info: JQ35G

Instrument: fid3a.i

Operator: JR

Column phase: RTX-1

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a022.d ARI ID: JQ35H
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 18:30
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 5
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.246	-0.004	15969	20512	GAS (Tol-C12)	132086	7
C8	1.426	-0.010	11074	10726	DIESEL (C12-C24)	1933201	156
C10	2.662	0.003	175	222	M.OIL (C24-C38)	3420770	363
C12	3.127	-0.011	1802	1828	AK-102 (C10-C25)	1988789	137
C14	3.434	-0.009	5311	3882	AK-103 (C25-C36)	3171089	499
C16	3.697	-0.004	11756	9227			
C18	3.948	0.011	27040	29605			
C20	4.169	0.008	24916	18116			
C22	4.381	0.002	50413	34721	STODDARD (C8-C12)	54132	4
C24	4.595	0.003	150974	82935			
C25	4.702	0.004	30527	4262			
C26	4.795	-0.005	42603	43533			
C28	5.010	0.003	106691	118520			
C32	5.414	-0.012	51257	72361			
C34	5.631	-0.001	32726	17641			
Filter Peak	6.202	-0.004	10811	4910			
C36	5.828	-0.003	24813.0	10240	o-Terph Surrogate Rec = 64.3%		(105248)
C38	6.034	-0.001	16340.0	5083	Triacon Surrogate Rec = 67.3%		(92471)
C40	6.282	-0.004	9985	10150			
o-terph	3.999	-0.015	318087	105248	JET-A (C10-C18)	481310	42
Triacon Surr	5.200	-0.024	161507	92471			

JR 08/03/06

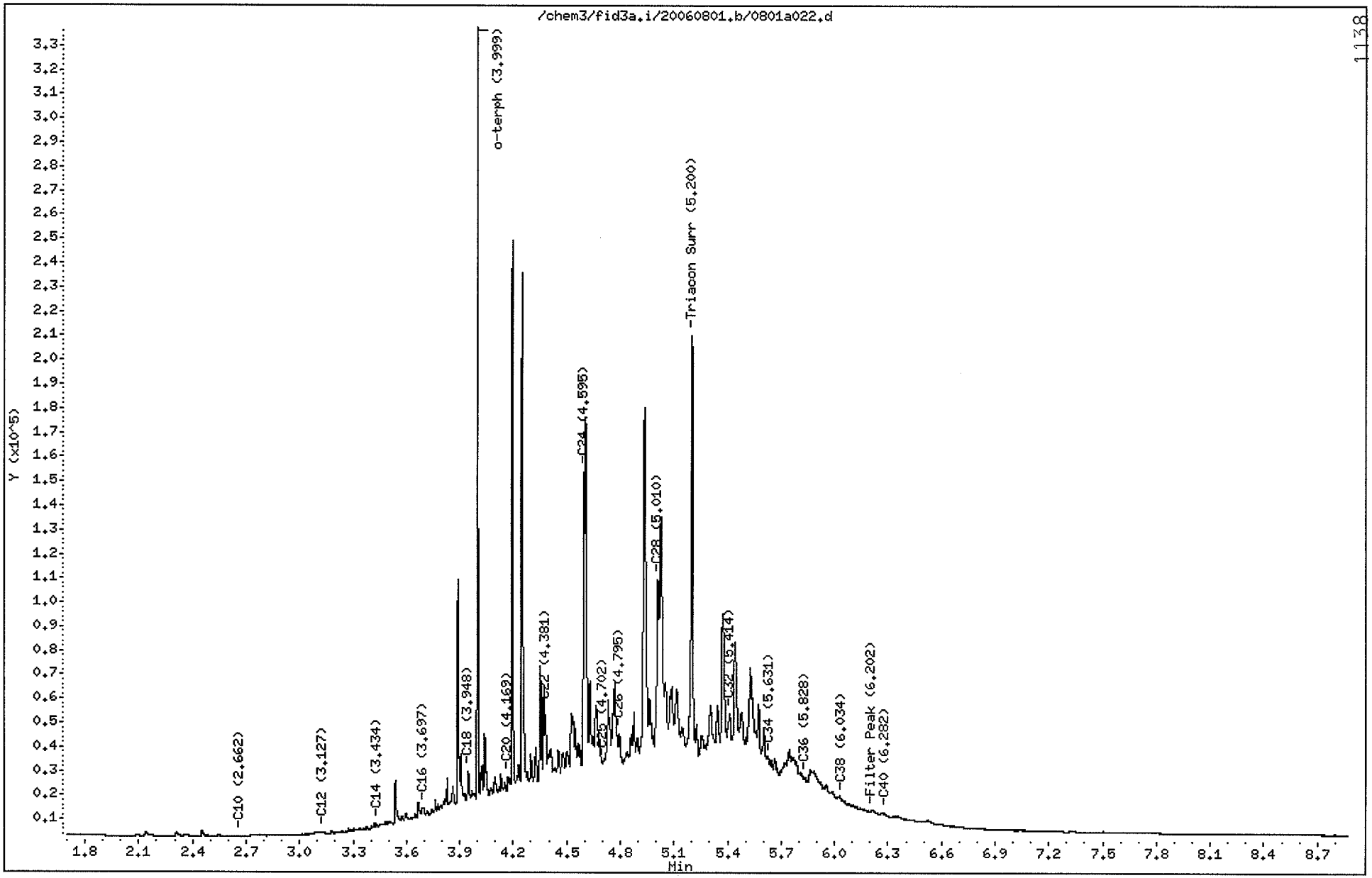
Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a022.d
Date : 01-AUG-2006 18:30
Client ID:
Sample Info: JQ35H,5

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a023.d ARI ID: JQ35I
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 18:46
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 5
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.245	-0.006	15706	20167	GAS (Tol-C12)	155601	8
C8	1.430	-0.006	4958	5401	DIESEL (C12-C24)	4722279	382
C10	2.662	0.003	313	323	M.OIL (C24-C38)	7629169	809
C12	3.151	0.014	2742	1568	AK-102 (C10-C25)	4765264	328
C14	3.444	0.001	10147	4880	AK-103 (C25-C36)	7171298	1130
C16	3.694	-0.007	27659	24728			
C18	3.946	0.009	86308	75169			
C20	4.154	-0.007	54775	44303			
C22	4.375	-0.004	148116	92791	STODDARD (C8-C12)	73988	5
C24	4.580	-0.012	86842	73370			
C25	4.705	0.008	76883	21194			
C26	4.803	0.004	95031	52058			
C28	4.982	-0.024	126689	100257			
C32	5.423	-0.003	109451	66920			
C34	5.630	-0.001	75644	66230			
Filter Peak	6.204	-0.001	21756	9371			
C36	5.832	0.001	54775.0	20418	o-Terph Surrogate Rec = 63.3%		(103707)
C38	6.034	-0.001	35624.0	28104	Triacon Surrogate Rec = 77.2%		(106099)
C40	6.282	-0.004	20053	12658			
o-terph	4.001	-0.014	320638	103707	JET-A (C10-C18)	1128884	97
Triacon Surr	5.205	-0.020	142391	106099			

JR 08/03/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a023.d

Date : 01-AUG-2006 18:46

Client ID:

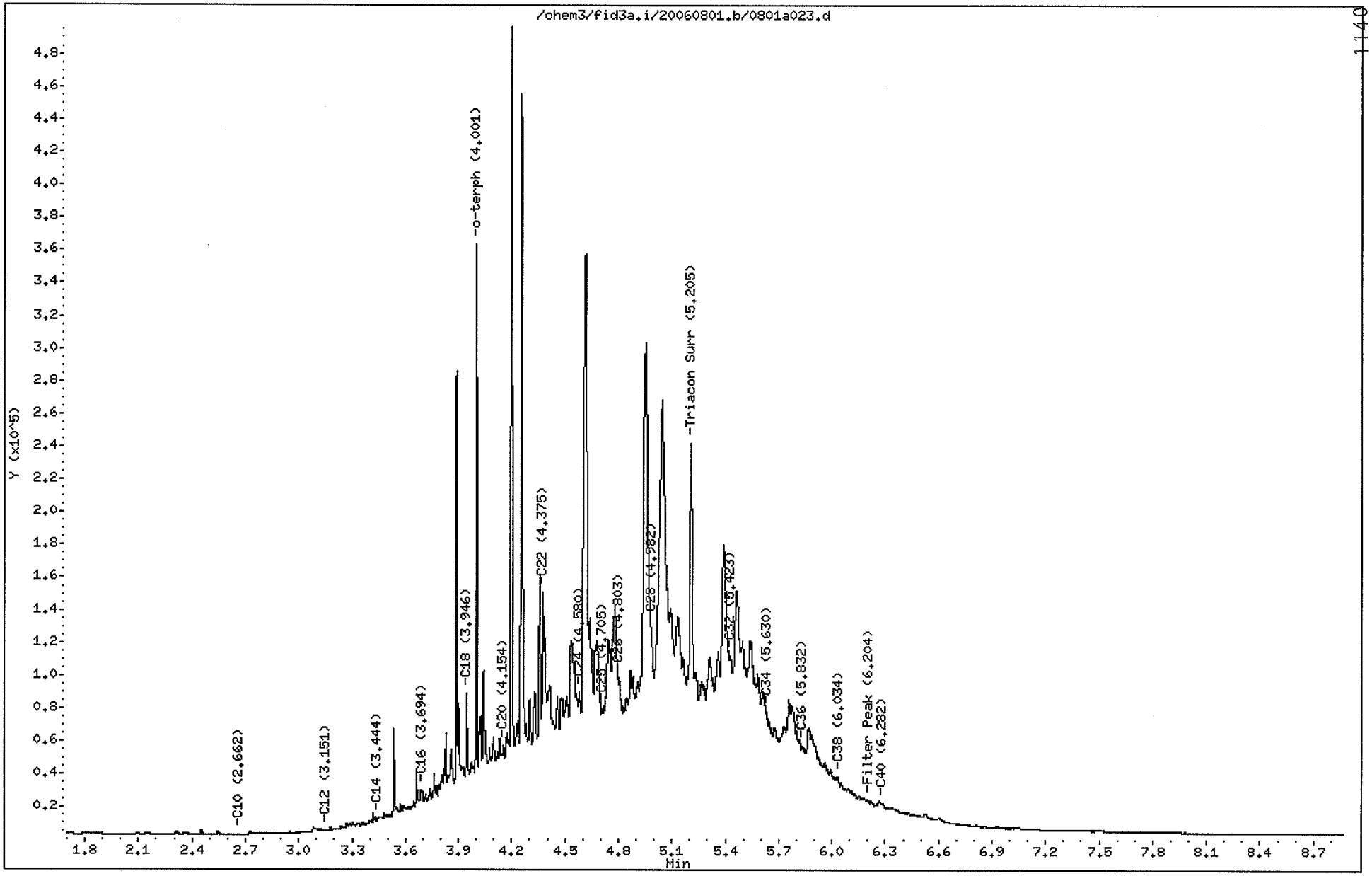
Sample Info: JQ35I,5

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a024.d ARI ID: JQ35J
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 19:01
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 5
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.244	-0.006	14471	19011	GAS (Tol-C12)	158904	8
C8	1.433	-0.003	3048	3912	DIESEL (C12-C24)	4567961	369
C10	2.662	0.004	364	371	M.OIL (C24-C38)	7012438	744
C12	3.138	0.000	2820	1516	AK-102 (C10-C25)	4615433	318
C14	3.447	0.004	10902	6387	AK-103 (C25-C36)	6528145	1028
C16	3.694	-0.007	29627	22923			
C18	3.935	-0.002	36531	6522			
C20	4.151	-0.009	55711	47619			
C22	4.384	0.005	114083	86875	STODDARD (C8-C12)	78197	5
C24	4.577	-0.015	82092	68447			
C25	4.703	0.005	70243	13887			
C26	4.799	-0.001	87667	59647			
C28	4.998	-0.009	91159	25368			
C32	5.424	-0.002	102265	100428			
C34	5.635	0.004	69060	29652			
Filter Peak	6.204	-0.002	21931	8242			
C36	5.828	-0.003	52519.0	18558	o-Terph Surrogate Rec = 54.0%		(88348)
C38	6.036	0.001	35808.0	35518	Triacon Surrogate Rec = 68.3%		(93941)
C40	6.290	0.004	24902	36730			
o-terph	4.000	-0.015	262425	88348	JET-A (C10-C18)	1154291	100
Triacon Surr	5.204	-0.021	121575	93941			

JR 08/03/06

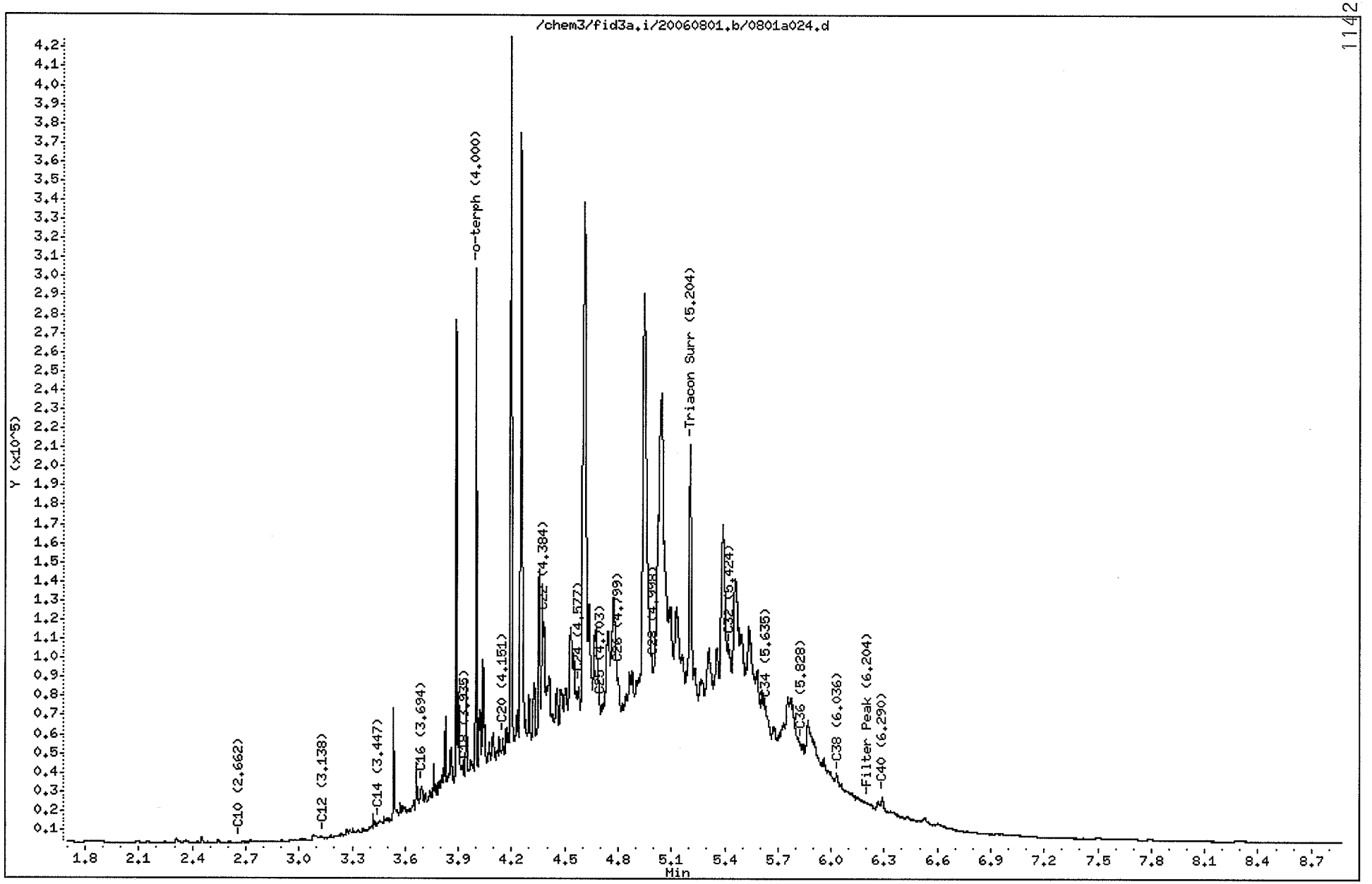
Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a024.d
Date : 01-AUG-2006 19:01
Client ID:
Sample Info: JQ35J,5

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a025.d ARI ID: JQ35K
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 19:17
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 5
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.244	-0.006	15495	19532	GAS (Tol-C12)	177262	9
C8	1.435	-0.001	2053	2953	DIESEL (C12-C24)	6279795	507
C10	2.662	0.003	463	472	M.OIL (C24-C38)	10389581	1102
C12	3.138	0.000	3512	1321	AK-102 (C10-C25)	6340166	437
C14	3.442	-0.001	13995	6494	AK-103 (C25-C36)	9780757	1541
C16	3.693	-0.008	40061	34937			
C18	3.945	0.008	131317	110909			
C20	4.153	-0.008	72328	69409			
C22	4.378	-0.001	189880	156392	STODDARD (C8-C12)	92279	6
C24	4.580	-0.012	111603	83573			
C25	4.710	0.012	103021	43002			
C26	4.785	-0.015	183252	401231			
C28	5.007	0.000	147557	43784			
C32	5.415	-0.011	187946	244461			
C34	5.637	0.005	99034	48007			
Filter Peak	6.209	0.003	27319	9174			
C36	5.828	-0.003	74845.0	44686	o-Terph Surrogate Rec = 69.3%		(113425)
C38	6.036	0.001	45489.0	36572	Triacon Surrogate Rec = 75.9%		(104340)
C40	6.285	-0.001	26031	13832			
o-terph	4.000	-0.014	328070	113425	JET-A (C10-C18)	1559691	135
Triacon Surr	5.210	-0.015	132094	104340			

JL 08/03/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a025.d

Date : 01-AUG-2006 19:17

Client ID:

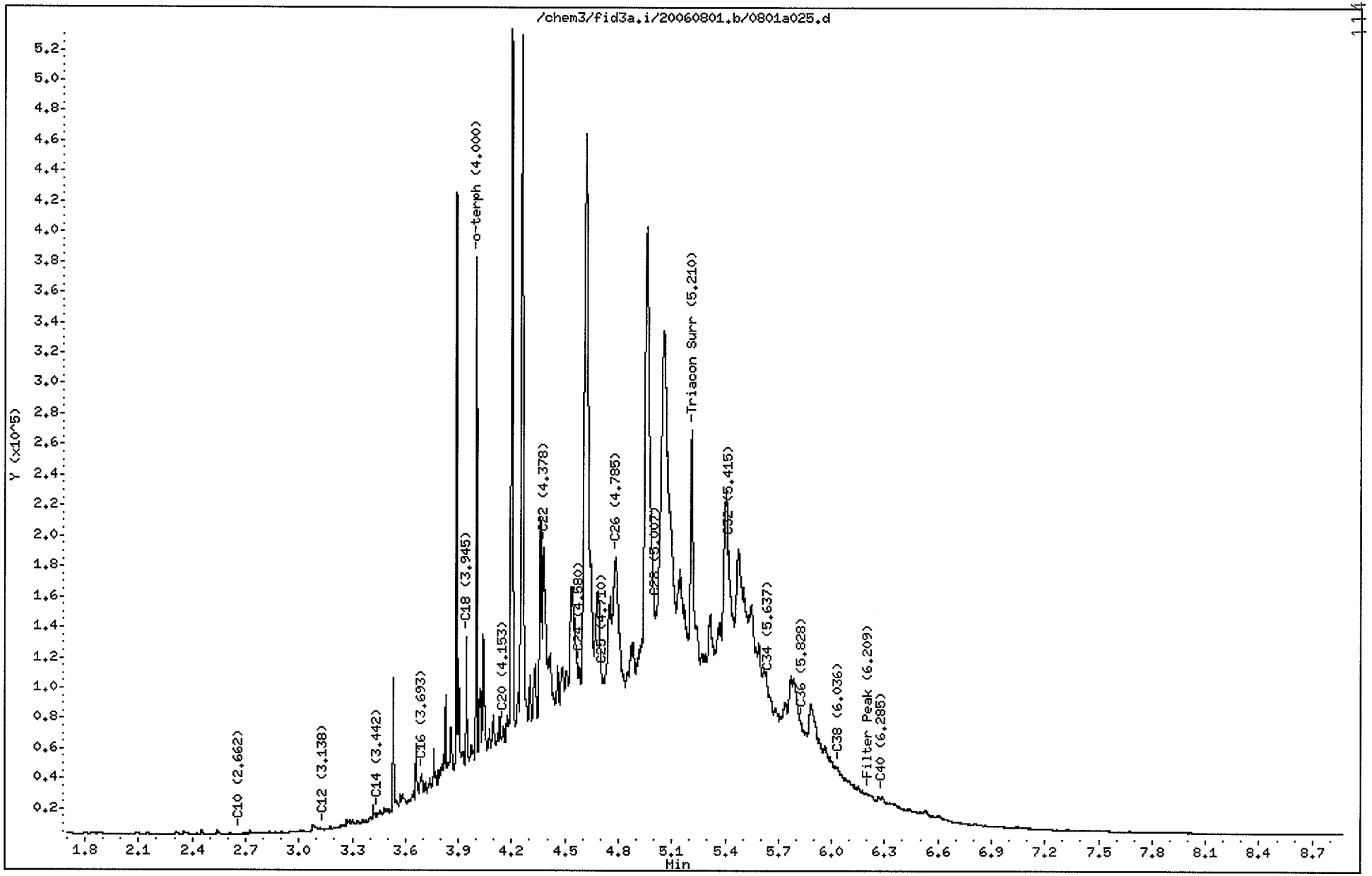
Sample Info: JQ35K,5

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a026.d ARI ID: JQ35L
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 19:32
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.246	-0.004	34100	41130	GAS (Tol-C12)	217722	11
C8	1.423	-0.013	20754	17462	DIESEL (C12-C24)	750935	61
C10	2.662	0.003	300	272	M.OIL (C24-C38)	1242706	132
C12	3.131	-0.007	1163	1483	AK-102 (C10-C25)	766750	53
C14	3.436	-0.007	1996	1290	AK-103 (C25-C36)	1156474	182
C16	3.693	-0.008	4698	6638			
C18	3.936	-0.001	6541	1431			
C20	4.168	0.007	11473	8146			
C22	4.380	0.002	19437	13603	STODDARD (C8-C12)	76222	5
C24	4.592	0.001	56090	27953			
C25	4.705	0.007	12374	6332			
C26	4.807	0.007	12214	4547			
C28	5.002	-0.005	48513	43268			
C32	5.431	0.005	26573	36577			
C34	5.637	0.006	10874	6663			
Filter Peak	6.201	-0.004	4638	3405			
C36	5.828	-0.003	9205.0	3815	o-Terph Surrogate Rec = 73.8%		(604501)
C38	6.034	-0.001	6368.0	3422	Triacon Surrogate Rec = 77.5%		(532853)
C40	6.285	-0.001	4081	1046			
o-terph	4.003	-0.012	1325136	604501	JET-A (C10-C18)	197563	17
Triacon Surr	5.207	-0.018	676761	532853			

JR 08/03/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a026.d

Date : 01-AUG-2006 19:32

Client ID:

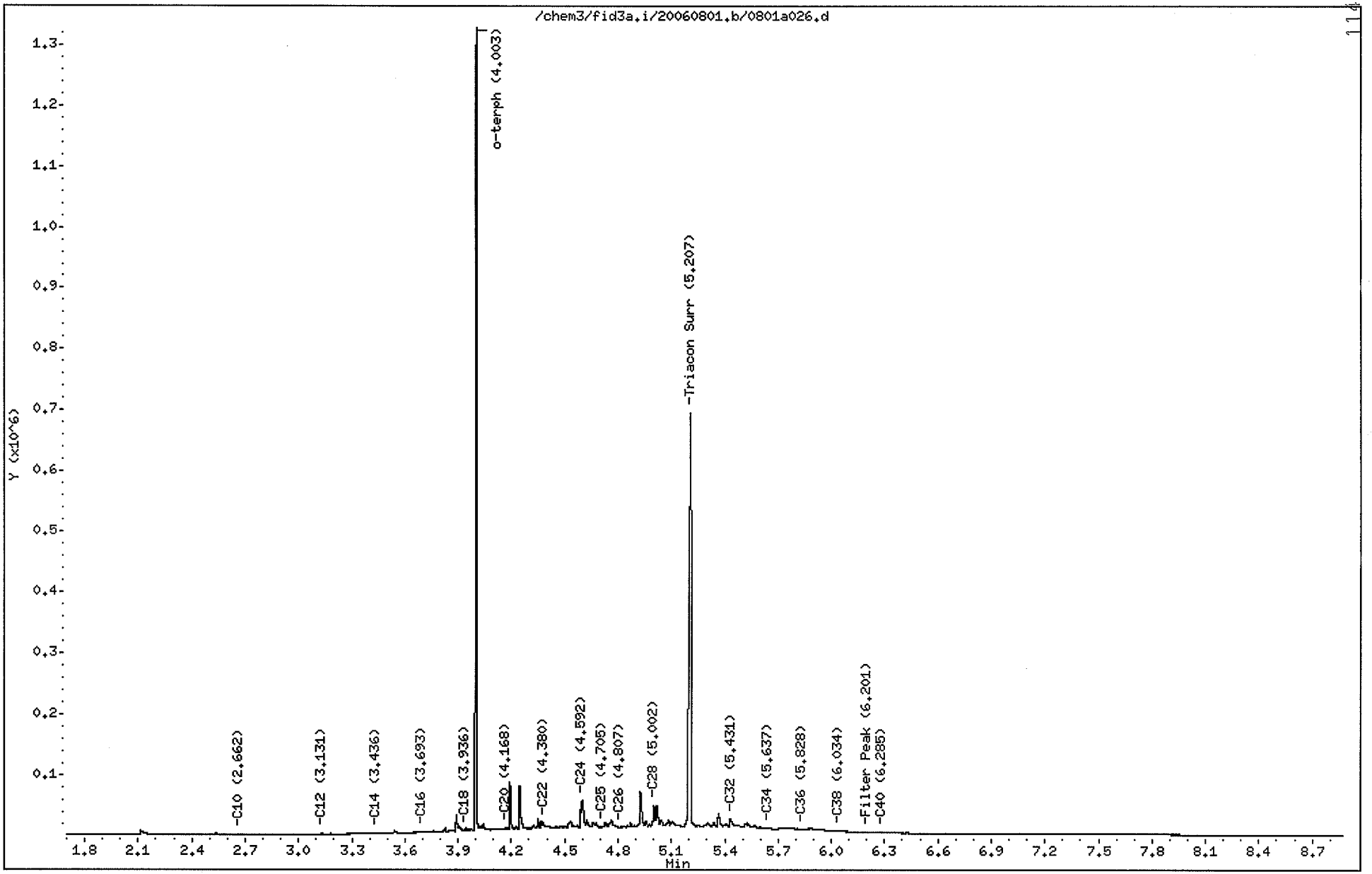
Sample Info: JQ35L

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a030.d ARI ID: JQ35M
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 20:34
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 5
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.247	-0.004	14174	17357	GAS (Tol-C12)	113010	6
C8	1.437	0.000	2107	2708	DIESEL (C12-C24)	1829561	148
C10	2.660	0.001	90	18	M.OIL (C24-C38)	2942760	312
C12	3.128	-0.010	1869	1932	AK-102 (C10-C25)	1876338	129
C14	3.445	0.002	3894	905	AK-103 (C25-C36)	2707620	426
C16	3.697	-0.004	10494	8447			
C18	3.941	0.004	22292	13518			
C20	4.167	0.006	25068	21301			
C22	4.380	0.001	39809	25181	STODDARD (C8-C12)	41603	3
C24	4.595	0.003	93313	50394			
C25	4.700	0.002	29298	4066			
C26	4.806	0.006	29673	5874			
C28	5.006	-0.001	85549	90879			
C32	5.424	-0.002	35468	7066			
C34	5.636	0.005	27547	6013			
Filter Peak	6.204	-0.001	9767	4832			
C36	5.832	0.001	21731.0	5626	o-Terph Surrogate Rec = 55.6%		(91043)
C38	6.042	0.007	14472.0	6826	Triacon Surrogate Rec = 61.4%		(84378)
C40	6.282	-0.003	9027	5541			
o-terph	3.997	-0.018	285263	91043	JET-A (C10-C18)	433323	37
Triacon Surr	5.200	-0.024	143074	84378			

JR 08/03/06

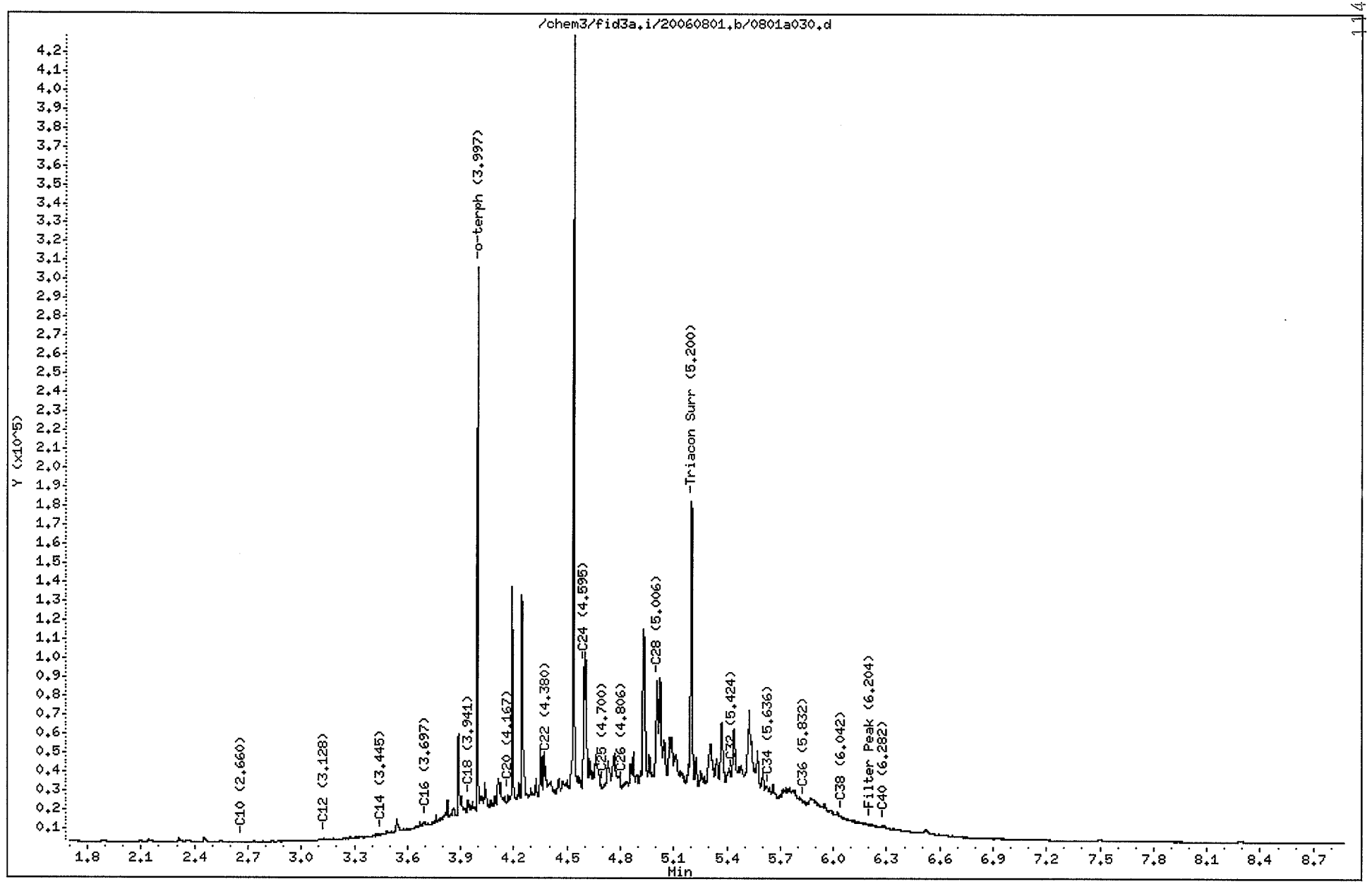
Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a030.d
Date : 01-AUG-2006 20:34
Client ID:
Sample Info: JQ35M,5

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a031.d ARI ID: JQ35N
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 20:50
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.248	-0.002	30651	35133	GAS (Tol-C12)	163602	8
C8	1.437	0.001	2604	3175	DIESEL (C12-C24)	221339	18
C10	2.664	0.005	302	239	M.OIL (C24-C38)	407415	43
C12	3.137	-0.001	574	718	AK-102 (C10-C25)	234543	16
C14	3.439	-0.004	789	700	AK-103 (C25-C36)	367266	58
C16	3.700	-0.001	1377	602			
C18	3.945	0.008	3076	2533			
C20	4.169	0.009	3569	2378			
C22	4.381	0.003	5145	3161	STODDARD (C8-C12)	41435	3
C24	4.596	0.004	4927	2009			
C25	4.707	0.009	4830	3315			
C26	4.794	-0.006	5194	3866			
C28	5.002	-0.005	7371	7969			
C32	5.427	0.001	5353	2384			
C34	5.637	0.006	4527	3258			
Filter Peak	6.201	-0.005	2153	684			
C36	5.835	0.004	3752.0	817	o-Terph Surrogate Rec = 71.7%		(587196)
C38	6.040	0.005	2798.0	1813	Triacon Surrogate Rec = 79.3%		(545447)
C40	6.287	0.001	1911	936			
o-terph	4.003	-0.012	1282724	587196	JET-A (C10-C18)	66878	6
Triacon Surr	5.206	-0.018	746182	545447			

JR 08/03/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a031.d

Date : 01-AUG-2006 20:50

Client ID:

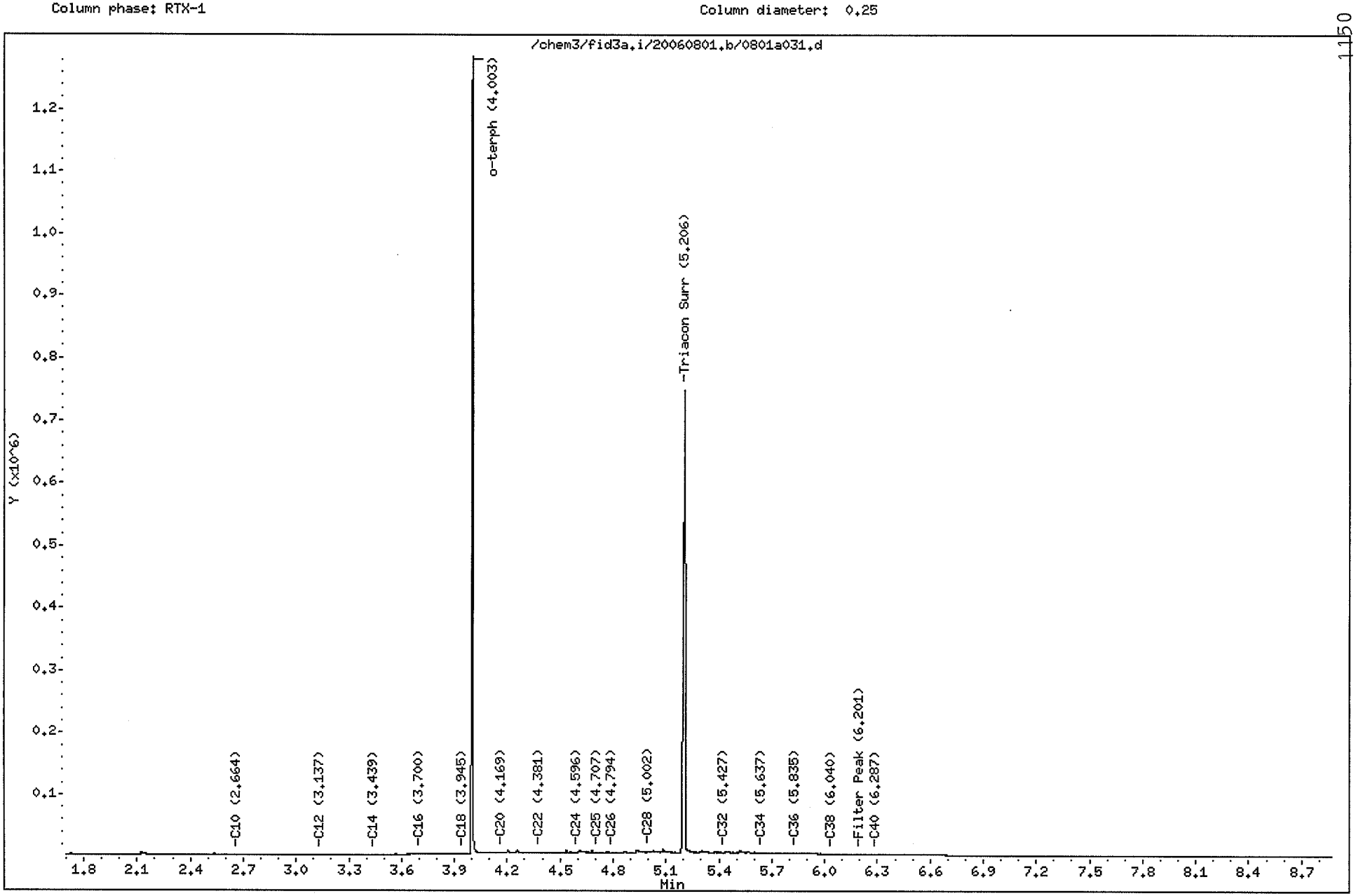
Sample Info: JQ35N

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a032.d ARI ID: JQ350
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 21:06
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 5
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.247	-0.003	15190	18983	GAS (Tol-C12)	120509	6
C8	1.436	0.000	2543	3446	DIESEL (C12-C24)	2216420	179
C10	2.662	0.003	111	21	M.OIL (C24-C38)	3678782	390
C12	3.128	-0.010	1814	1871	AK-102 (C10-C25)	2235788	154
C14	3.446	0.003	4407	1641	AK-103 (C25-C36)	3457295	545
C16	3.692	-0.009	13917	13149			
C18	3.935	-0.002	19692	3885			
C20	4.161	0.001	28600	10814			
C22	4.379	0.000	56574	37874	STODDARD (C8-C12)	42638	3
C24	4.594	0.003	153910	84648			
C25	4.696	-0.001	37147	13090			
C26	4.793	-0.007	45321	44449			
C28	5.011	0.004	114466	133664			
C32	5.440	0.014	84971	126107			
C34	5.629	-0.002	34436	11414			
Filter Peak	6.203	-0.003	10256	2245			
C36	5.833	0.002	25602.0	9547	o-Terph Surrogate Rec = 62.8%		(102783)
C38	6.039	0.004	15547.0	6120	Triacon Surrogate Rec = 63.5%		(87308)
C40	6.280	-0.006	9175	9674			
o-terph	3.999	-0.016	315187	102783	JET-A (C10-C18)	534370	46
Triacon Surr	5.201	-0.024	151428	87308			

JR 08/03/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a032.d

Date : 01-AUG-2006 21:06

Client ID:

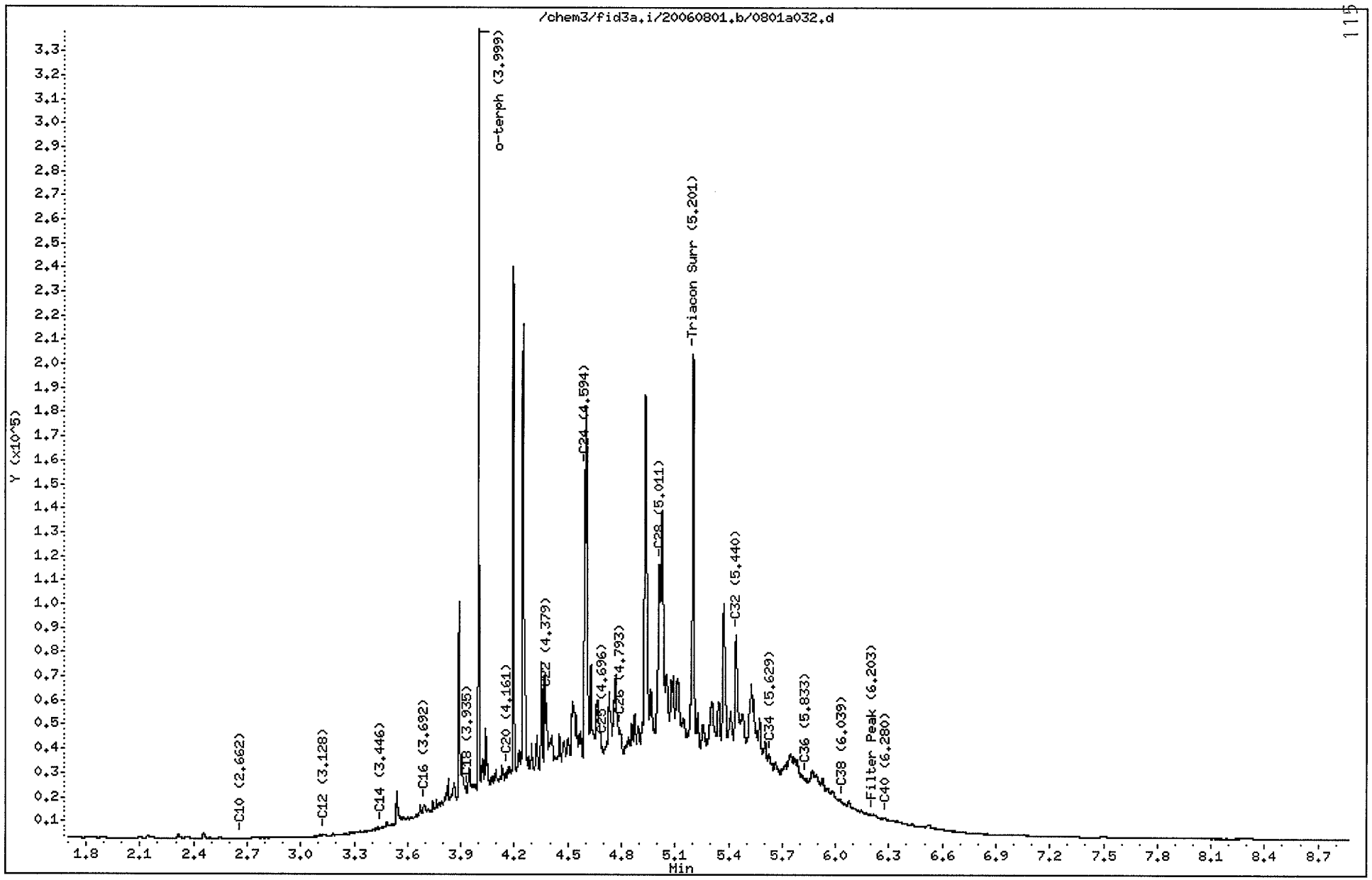
Sample Info: JQ350,5

Instrument: fid3a.i

Operator: JR

Column phase: RTX-1

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a033.d ARI ID: JQ35P
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 21:21
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.249	-0.001	30329	35523	GAS (Tol-C12)	196472	10
C8	1.427	-0.009	14955	13248	DIESEL (C12-C24)	639432	52
C10	2.662	0.004	266	119	M.OIL (C24-C38)	1137170	121
C12	3.134	-0.004	956	1322	AK-102 (C10-C25)	652668	45
C14	3.446	0.003	1536	452	AK-103 (C25-C36)	1062370	167
C16	3.694	-0.007	3888	4239			
C18	3.945	0.008	7509	5286			
C20	4.154	-0.007	8021	6743			
C22	4.383	0.004	16808	12230	STODDARD (C8-C12)	63417	4
C24	4.595	0.003	44532	21878			
C25	4.702	0.004	11814	3742			
C26	4.802	0.002	12608	3936			
C28	5.004	-0.003	42435	42324			
C32	5.420	-0.006	13547	3211			
C34	5.633	0.001	10013	1591			
Filter Peak	6.201	-0.004	3536	562			
C36	5.835	0.004	7929.0	3109	o-Terph Surrogate Rec = 59.6%		(487631)
C38	6.039	0.004	5164.0	919	Triacon Surrogate Rec = 62.6%		(430572)
C40	6.284	-0.002	3074	1202			
o-terph	4.003	-0.012	1169007	487631	JET-A (C10-C18)	158246	14
Triacon Surr	5.205	-0.019	590490	430572			

JR 08/03/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

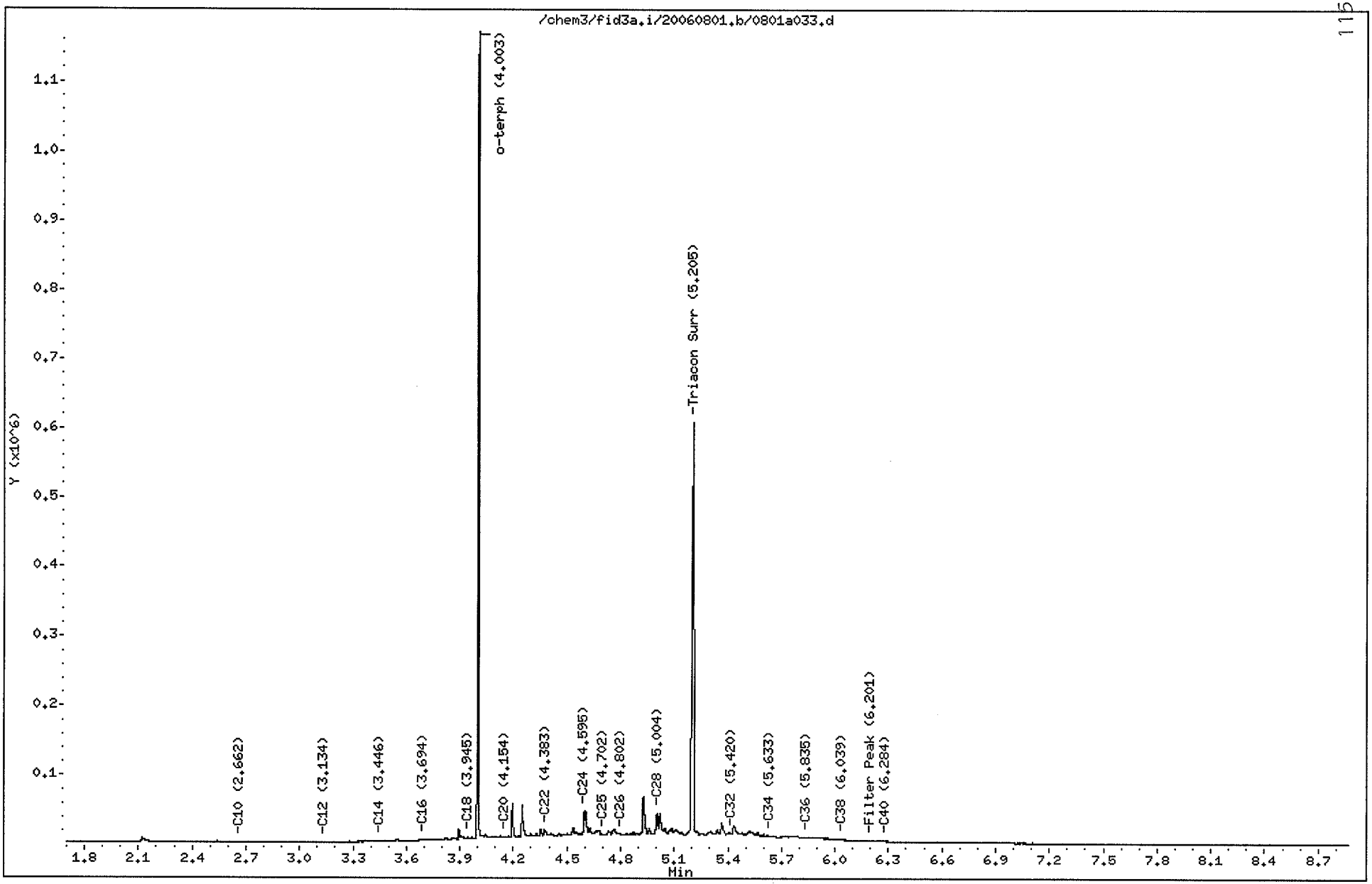
Data File: /chem3/fid3a.i/20060801.b/0801a033.d
Date : 01-AUG-2006 21:21
Client ID:
Sample Info: JQ35P

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1154



NWTPH-Dx Analysis
Standard Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

PROJECT: T4 EARLY ACTION, 050332-01

ARI JOB NO: JQ35

prepared
by

Analytical Resources, Inc.

6a
NW DIESEL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR

Instrument: FID3A.I Project: T4 EARLY ACTION

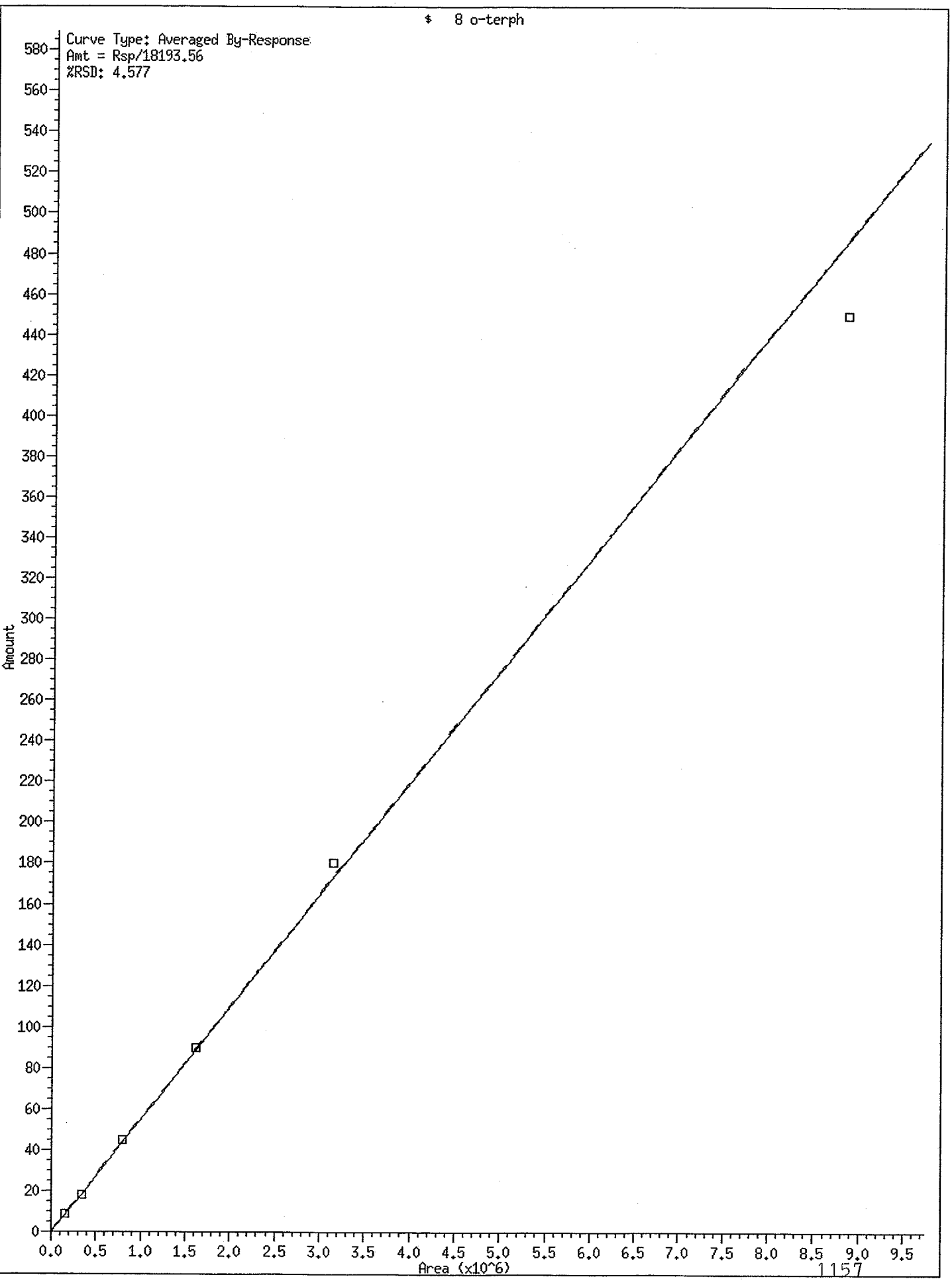
Calibration Date: 15-JUL-2006 SDG No.: JQ35

Diesel Range	RF1 50	RF2 100	RF3 250	RF4 500	RF5 1000	RF6 2500	Ave RF	%RSD
WA Diesel	13012	12856	11663	11806	12534	12381	12375	4.4
AK Diesel	15122	15046	13678	13885	14730	14610	14512	4.1
OR Diesel	15396	15264	13849	14059	14911	14802	14714	4.3
o-Terph	17752	18636	17602	18006	17490	19676	18194	4.6

<- Indicates %RSD outside limits
Surrogate areas are not included in Diesel RF calculation.

Quant Ranges : WA Diesel C12-C24 (3.154-4.597)
AK Diesel C10-C25 (2.673-4.704)
OR Diesel C10-C28 (2.673-5.028)

Calibration Files	Analysis Time
0715a014.d	15-JUL-2006 15:37
0715a015.d	15-JUL-2006 15:53
0715a016.d	15-JUL-2006 16:08
0715a017.d	15-JUL-2006 16:24
0715a018.d	15-JUL-2006 16:40
0715a019.d	15-JUL-2006 16:56


$ 8 o-terph
Curve Type: Averaged By-Response
Amt = Rsp/18193.56
%RSD: 4.577
Amount
Area (x10^6)
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340
360
380
400
420
440
460
480
500
520
540
560
580
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
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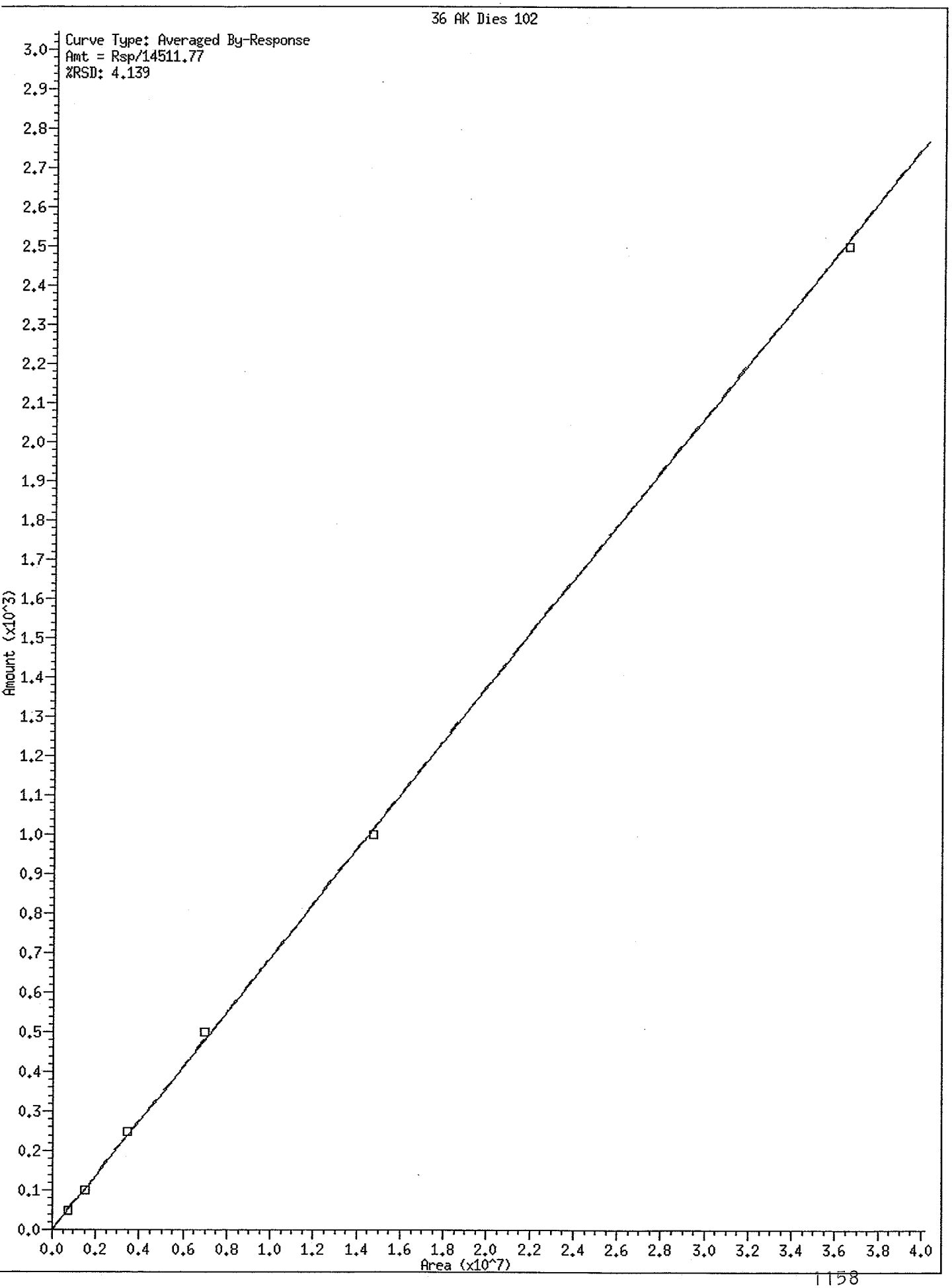
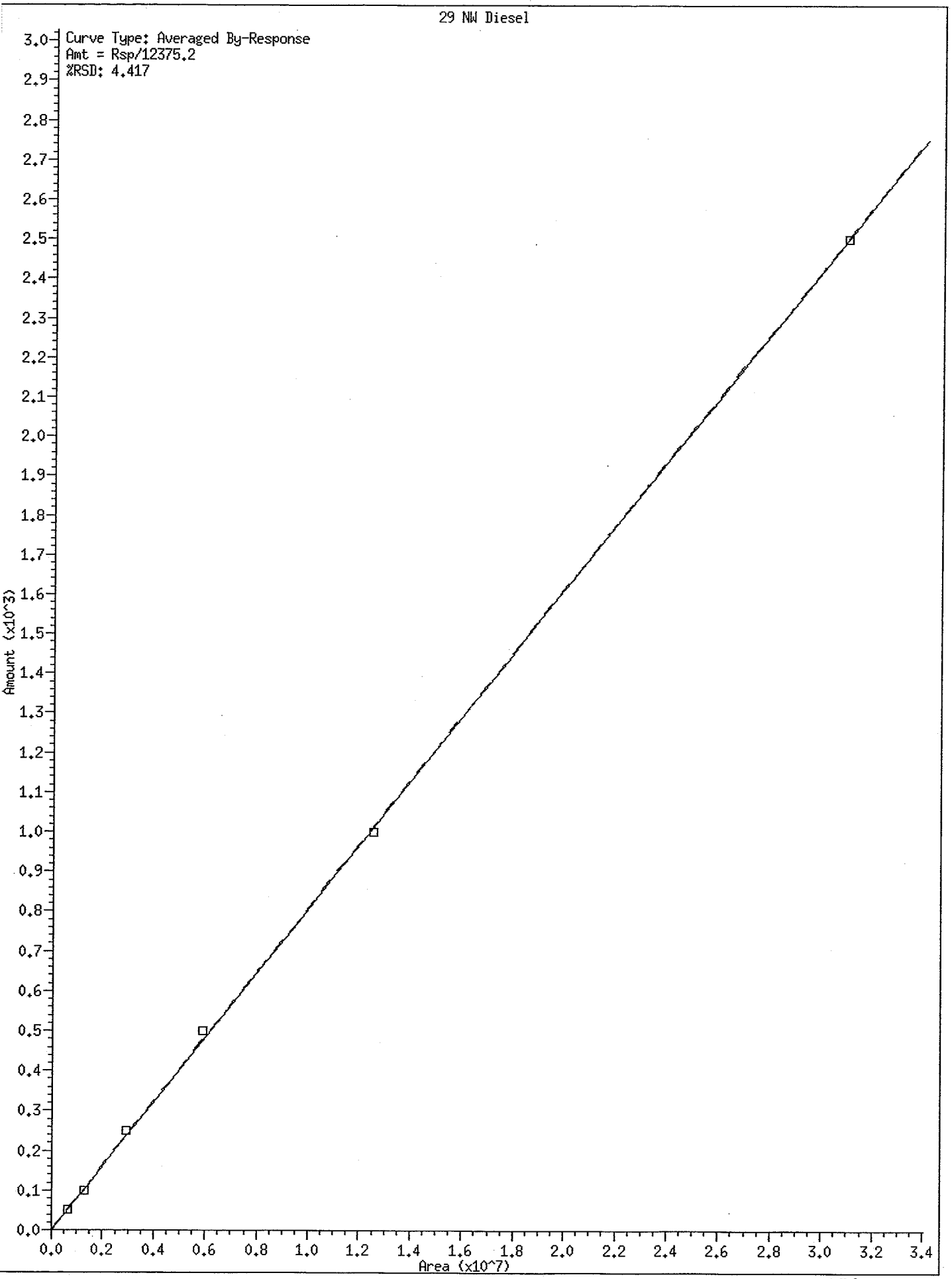
8.0
8.5
9.0
9.5


36 AK Dies 102
Curve Type: Averaged By-Response
Amt = Rsp/14511.77
%RSD: 4.139
Amount (x10^3)
Area (x10^7)
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0


29 NW Diesel
Curve Type: Averaged By-Response
Amt = Rsp/12375.2
%RSD: 4.417
Amount (x10^3)
Area (x10^7)
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0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a011.d ARI ID: RT
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 14:49
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.262	0.000	412228	340156	GAS (Tol-C12)	1001018	52
C8	1.450	0.000	250867	220714	DIESEL (C12-C24)	1466162	118
C10	2.673	0.000	453857	199354	M.OIL (C24-C38)	1787458	190
C12	3.154	0.000	676168	214543	AK-102 (C10-C25)	1893397	130
C14	3.460	0.000	759151	217474	AK-103 (C25-C36)	1557006	245
C16	3.720	0.000	727083	229570			
C18	3.953	0.000	559507	232304			
C20	4.172	0.000	601693	235527			
C22	4.386	0.000	556374	236095	STODDARD (C8-C12)	656708	44
C24	4.597	0.000	519229	239695			
C25	4.704	0.000	604958	315813			
C26	4.810	0.000	494768	241476			
C28	5.028	0.000	422434	236266			
C32	5.466	0.000	429725	239759			
C34	5.680	0.000	385033	234089			
Filter Peak	6.229	0.000	2860	5424			
C36	5.887	0.000	413247.0	239088	o-Terph Surrogate Rec = 89.5%		(732763)
C38	6.107	0.000	286846.0	214323	Triacon Surrogate Rec = 106.3%		(730826)
C40	6.384	0.000	218670	196573			
o-terph	4.030	0.000	1577843	732763	JET-A (C10-C18)	1169950	101
Triacon Surr	5.258	0.000	918305	730826			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

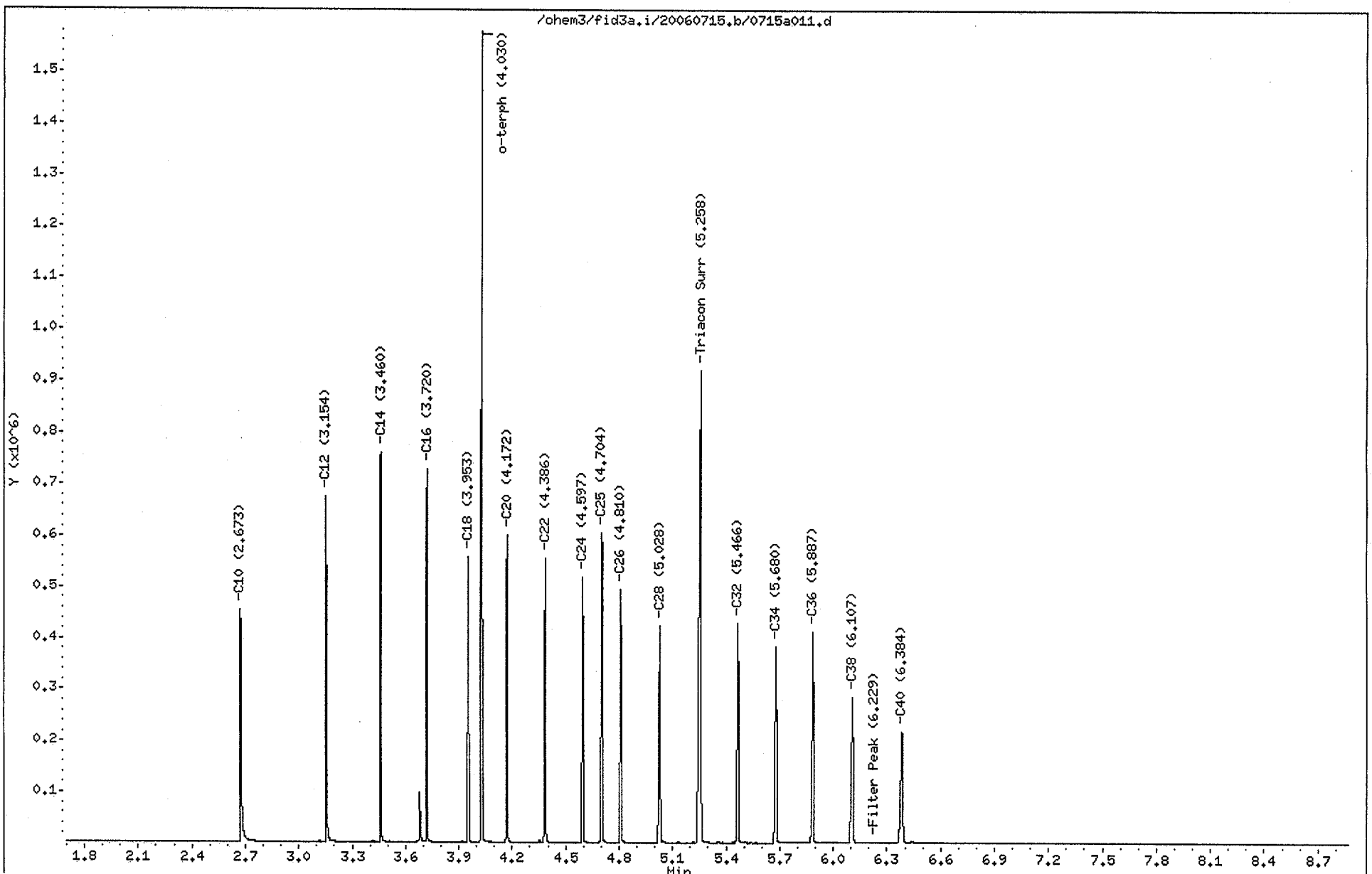
Data File: /chem3/fid3a.i/20060715.b/0715a011.d
Date : 15-JUL-2006 14:49
Client ID:
Sample Info: RT

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1161



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a012.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006

ARI ID: IB
Client ID:
Injection: 15-JUL-2006 15:05

Dilution Factor: 1

Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	9037	0
C8	1.425	-0.026	758	696	DIESEL (C12-C24)	63985	5
C10	2.676	0.002	105	47	M.OIL (C24-C38)	82101	9
C12	3.154	0.000	129	47	AK-102 (C10-C25)	67608	5
C14	3.460	-0.001	143	106	AK-103 (C25-C36)	58548	9
C16	3.680	-0.041	95486	47438			
C18	3.956	0.003	259	148			
C20	4.174	0.002	413	394			
C22	4.387	0.001	431	315	STODDARD (C8-C12)	9037	1
C24	4.597	0.000	390	389			
C25	4.703	-0.001	365	380			
C26	4.812	0.002	389	431			
C28	5.025	-0.003	949	830			
C32	5.462	-0.004	3122	3254			
C34	5.676	-0.004	1224	1333			
Filter Peak	6.232	0.002	2042	852			
C36	5.883	-0.004	1793.0	2543	o-Terph Surrogate Rec = 87.4% (715593)		
C38	6.103	-0.004	2120.0	3156	Triacon Surrogate Rec = 102.9% (707174)		
C40	6.379	-0.005	2166	4290			
o-terph	4.031	0.001	1529747	715593	JET-A (C10-C18)	57875	5
Triacon Surr	5.259	0.001	849057	707174			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

Data File: /chem3/fid3a.i/20060715.b/0715a012.d

Date : 15-JUL-2006 15:05

Client ID:

Sample Info: IB

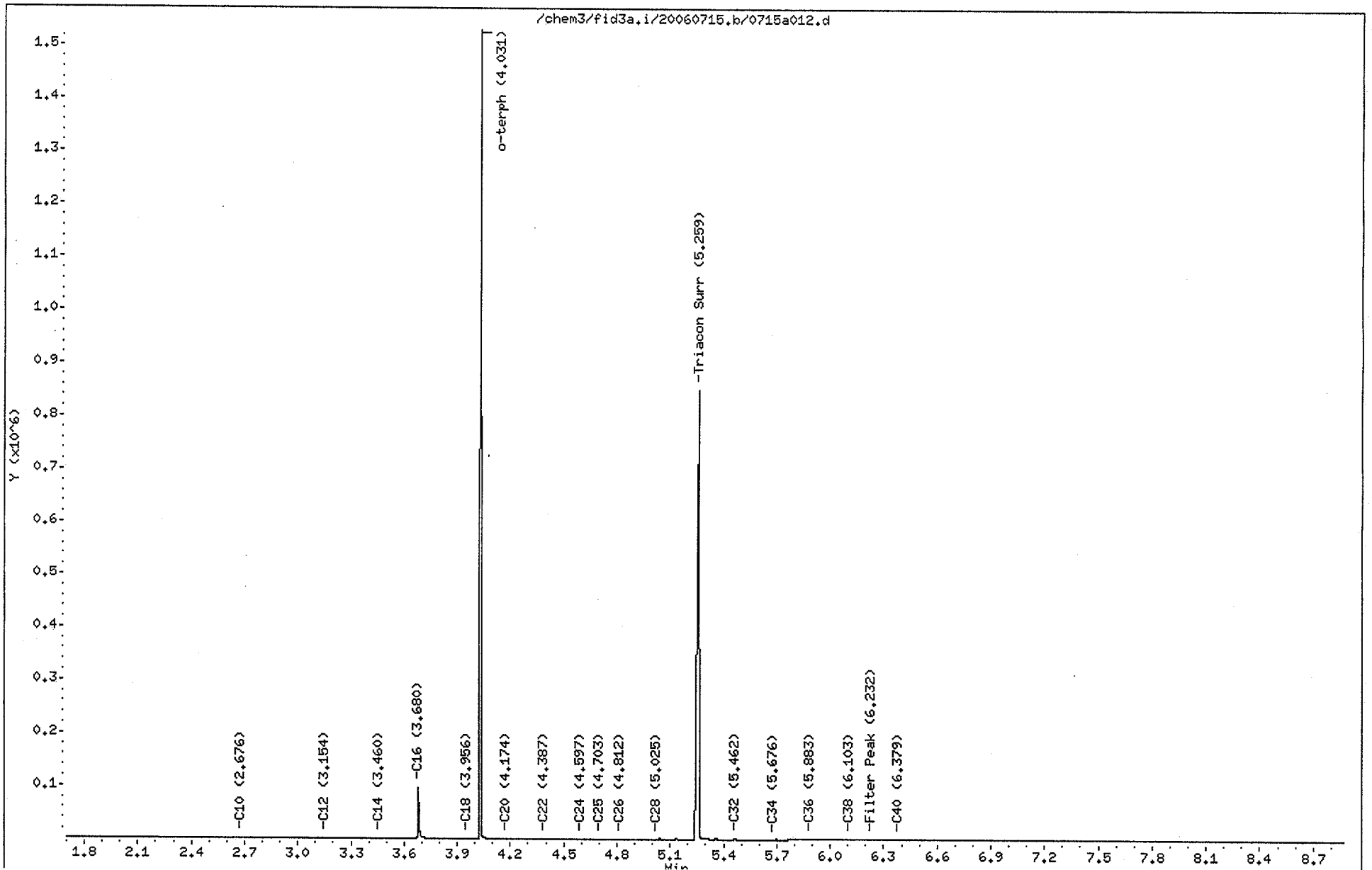
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1163



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a014.d ARI ID: 50 PPM DIESEL
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 15:37
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.269	0.007	6903	16909	GAS (Tol-C12)	151028	8
C8	1.434	-0.016	794	1241	DIESEL (C12-C24)	650607	53
C10	2.676	0.003	895	661	M.OIL (C24-C38)	66116	7
C12	3.158	0.004	16589	13202	AK-102 (C10-C25)	756109	52
C14	3.461	0.001	33043	18851	AK-103 (C25-C36)	48729	8
C16	3.719	-0.001	39331	23811			
C18	3.952	-0.001	31049	16145			
C20	4.171	-0.001	19921	10389			
C22	4.385	-0.002	7299	4596	STODDARD (C8-C12)	127597	8
C24	4.595	-0.002	2759	2982			
C25	4.701	-0.003	1595	1592			
C26	4.809	-0.001	955	1277			
C28	5.025	-0.003	437	293			
C32	5.468	0.002	542	86			
C34	5.678	-0.001	893	631			
Filter Peak	6.227	-0.002	1778	424			
C36	5.891	0.005	1454.0	574	o-Terph Surrogate Rec = 19.5%		(159772)
C38	6.110	0.003	1775.0	1162	Triacon Surrogate Rec = 0.0%		(117)
C40	6.389	0.004	1751	1182			
o-terph	4.026	-0.004	481364	159772	JET-A (C10-C18)	594113	51
Triacon Surr	5.264	0.007	372	117			

JA 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

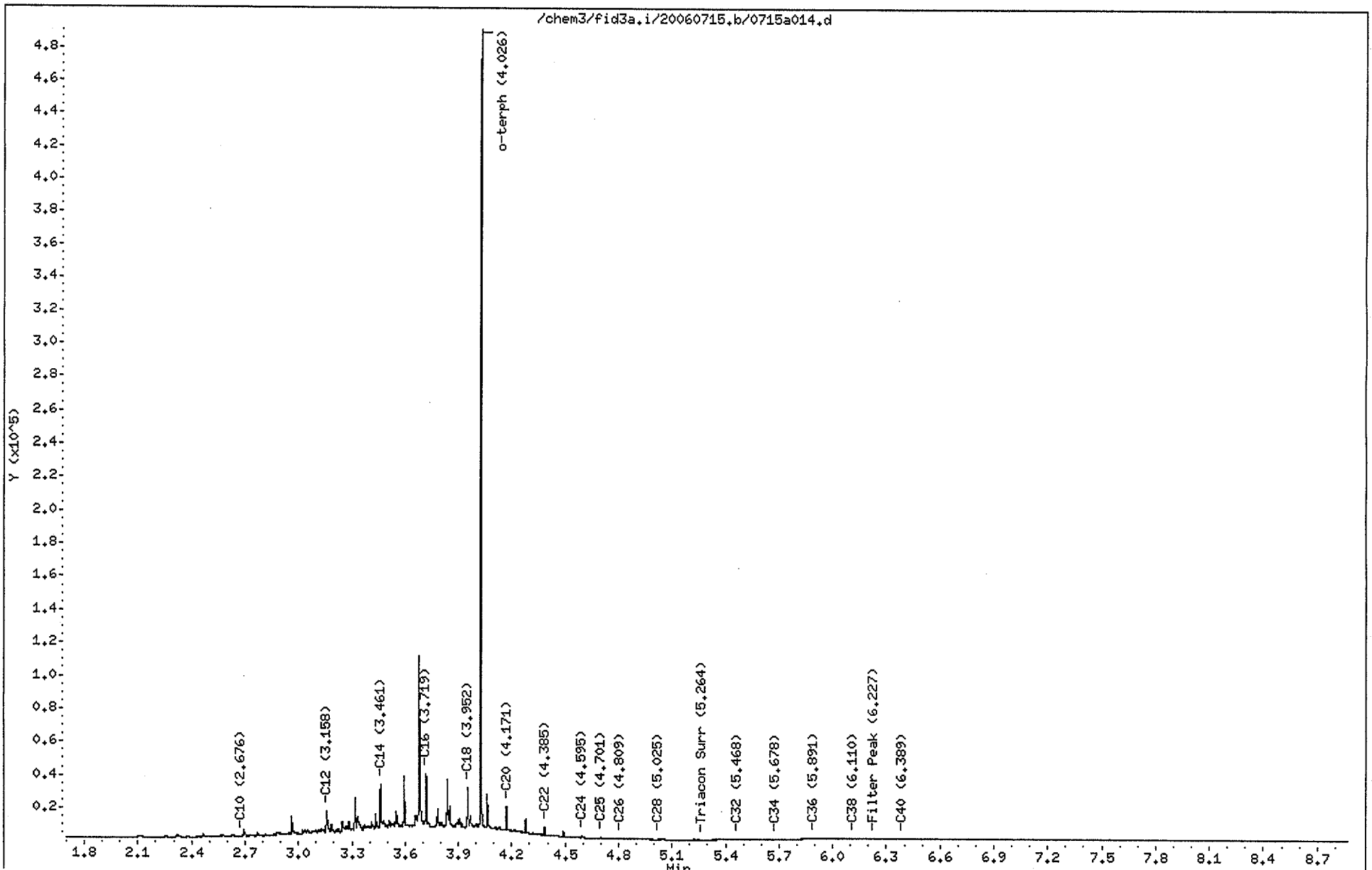
Data File: /chem3/fid3a.i/20060715.b/0715a014.d
Date : 15-JUL-2006 15:37
Client ID:
Sample Info: 50 PPM DIESEL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1165



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a015.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006
ARI ID: 100 PPM DIESEL
Client ID:
Injection: 15-JUL-2006 15:53
Dilution Factor: 1

Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.271	0.009	7080	13284	GAS (Tol-C12)	279179	15
C8	1.458	0.008	456	134	DIESEL (C12-C24)	1285631	104
C10	2.674	0.001	1747	1204	M.OIL (C24-C38)	74375	8
C12	3.157	0.004	44837	22238	AK-102 (C10-C25)	1504564	103
C14	3.461	0.001	71777	31918	AK-103 (C25-C36)	55157	9
C16	3.720	0.000	86796	37234			
C18	3.952	-0.001	65202	32061			
C20	4.169	-0.002	43820	22108			
C22	4.383	-0.003	15277	9136	STODDARD (C8-C12)	260246	17
C24	4.592	-0.005	5794	5084			
C25	4.698	-0.006	3161	3100			
C26	4.805	-0.005	1693	2160			
C28	5.023	-0.005	578	533			
C32	5.471	0.005	494	154			
C34	5.673	-0.007	1022	1234			
Filter Peak	6.227	-0.002	1668	699			
C36	5.889	0.003	1339.0	477	o-Terph Surrogate Rec = 41.0%		(335447)
C38	6.111	0.004	1632.0	747	Triacon Surrogate Rec = 0.0%		(217)
C40	6.385	0.001	1619	645			
o-terph	4.027	-0.002	945244	335447	JET-A (C10-C18)	1171472	101
Triacon Surr	5.260	0.002	354	217			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

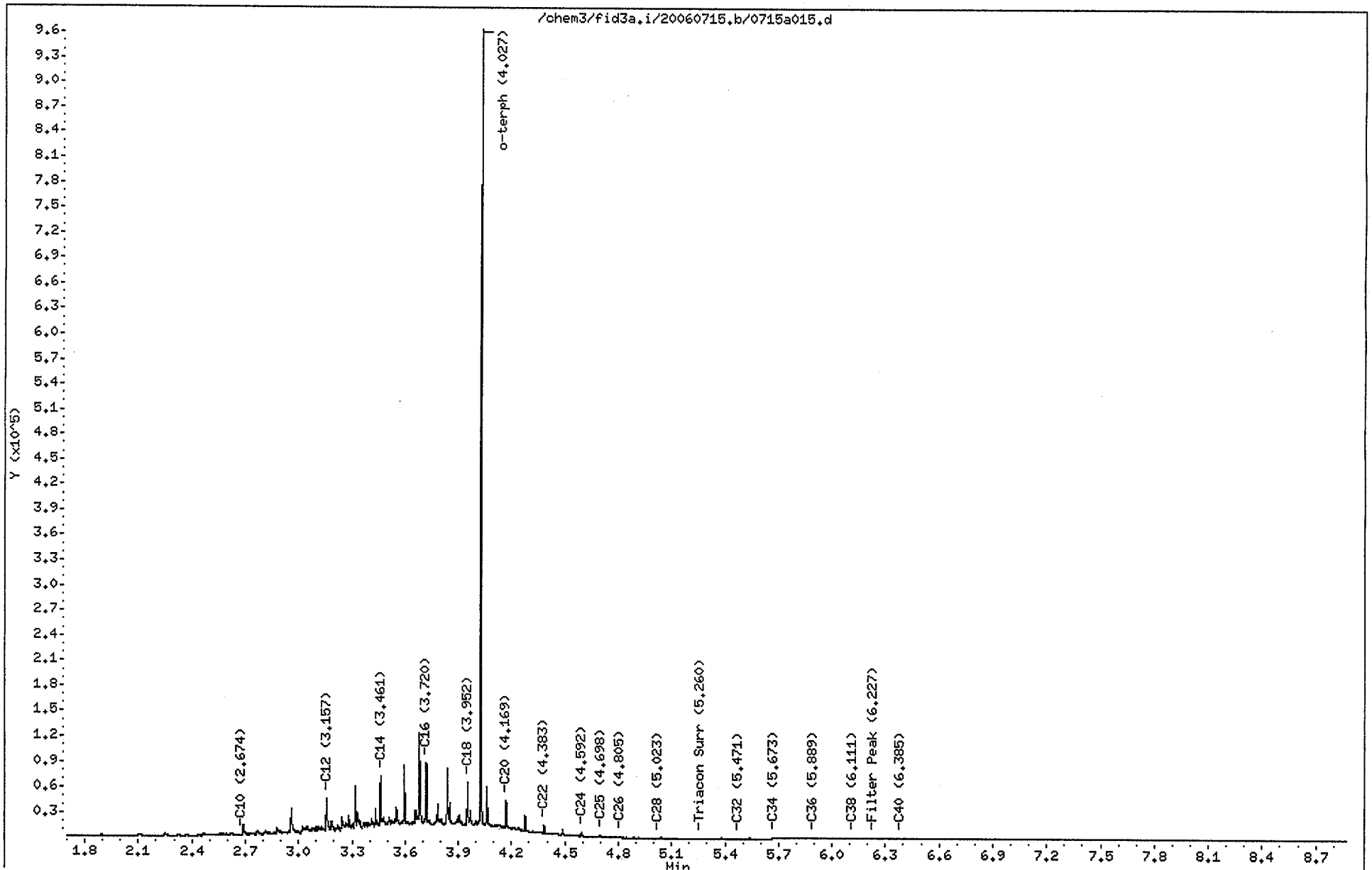
Data File: /chem3/fid3a.i/20060715.b/0715a015.d
Date : 15-JUL-2006 15:53
Client ID:
Sample Info: 100 PPM DIESEL

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1167



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a016.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006
ARI ID: 250 PPM DIESEL
Client ID:
Injection: 15-JUL-2006 16:08
Dilution Factor: 1
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.268	0.006	10272	14708	GAS (Tol-C12)	641169	34
C8	1.466	0.016	4109	4060	DIESEL (C12-C24)	2915740	236
C10	2.671	-0.002	4117	2767	M.OIL (C24-C38)	92562	10
C12	3.154	0.001	128065	54370	AK-102 (C10-C25)	3419417	234
C14	3.460	0.000	170308	77024	AK-103 (C25-C36)	73350	12
C16	3.720	0.000	199255	88014			
C18	3.953	0.000	140894	86489			
C20	4.170	-0.001	101020	48641			
C22	4.383	-0.003	36777	19411	STODDARD (C8-C12)	610268	41
C24	4.592	-0.005	13433	10593			
C25	4.697	-0.007	7543	6049			
C26	4.805	-0.005	3903	4087			
C28	5.023	-0.004	1014	871			
C32	5.471	0.005	476	188			
C34	5.671	-0.008	801	981			
Filter Peak	6.227	-0.002	1576	593			
C36	5.885	-0.002	1257.0	447	o-Terph Surrogate Rec = 96.7%		(792076)
C38	6.110	0.003	1518.0	878	Triacon Surrogate Rec = 0.0%		(236)
C40	6.388	0.004	1498	388			
o-terph	4.031	0.002	1615933	792076	JET-A (C10-C18)	2635654	228
Triacon Surr	5.257	0.000	378	236			

JR 07/19/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

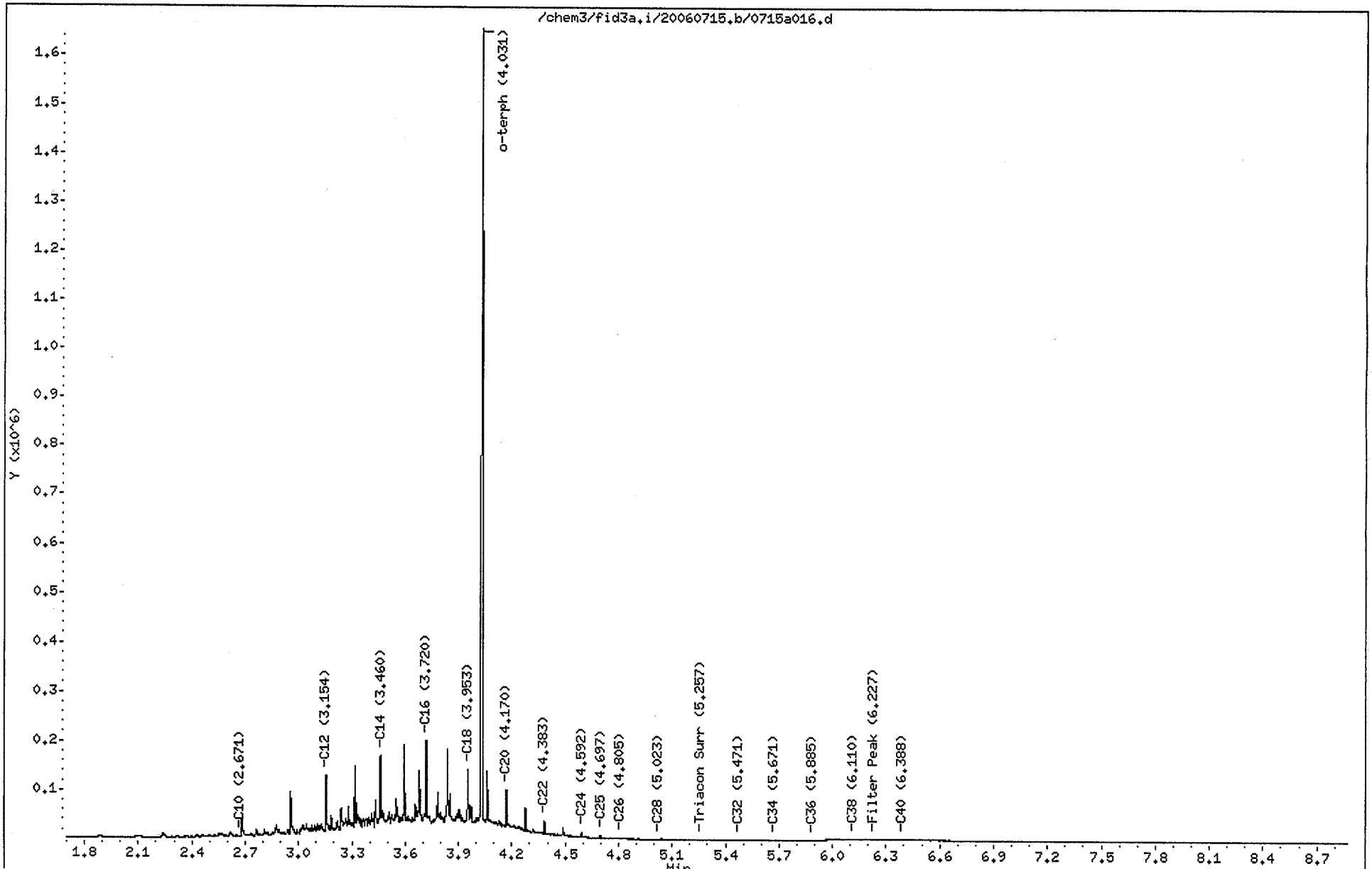
Data File: /chem3/fid3a.i/20060715.b/0715a016.d
Date : 15-JUL-2006 16:08
Client ID:
Sample Info: 250 PPM DIESEL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1169



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a017.d ARI ID: 500 PPM DIESEL
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 16:24
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.272	0.010	12935	16655	GAS (Tol-C12)	1281510	67
C8	1.434	-0.016	2262	2472	DIESEL (C12-C24)	5902829	477
C10	2.668	-0.005	8507	5311	M.OIL (C24-C38)	144869	15
C12	3.154	0.000	282009	112497	AK-102 (C10-C25)	6942316	476
C14	3.461	0.000	351189	164143	AK-103 (C25-C36)	124724	20
C16	3.721	0.001	374614	184254			
C18	3.956	0.003	252301	168431			
C20	4.173	0.002	195988	96164			
C22	4.386	-0.001	73983	38044	STODDARD (C8-C12)	1245238	83
C24	4.593	-0.004	28626	27221			
C25	4.699	-0.006	15596	13430			
C26	4.805	-0.005	7979	8222			
C28	5.022	-0.006	1982	1518			
C32	5.460	-0.006	621	747			
C34	5.673	-0.007	891	1098			
Filter Peak	6.231	0.002	1395	666			
C36	5.892	0.005	1234.0	975	o-Terph Surrogate Rec = 197.9%		(1620546)
C38	6.108	0.001	1465.0	233	Triacon Surrogate Rec = 0.0%		(259)
C40	6.387	0.003	1340	265			
o-terph	4.039	0.010	2247169	1620546	JET-A (C10-C18)	5341260	461
Triacon Surr	5.266	0.008	490	259			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

Data File: /chem3/fid3a.i/20060715.b/0715a017.d

Date : 15-JUL-2006 16:24

Client ID:

Sample Info: 500 PPM DIESEL

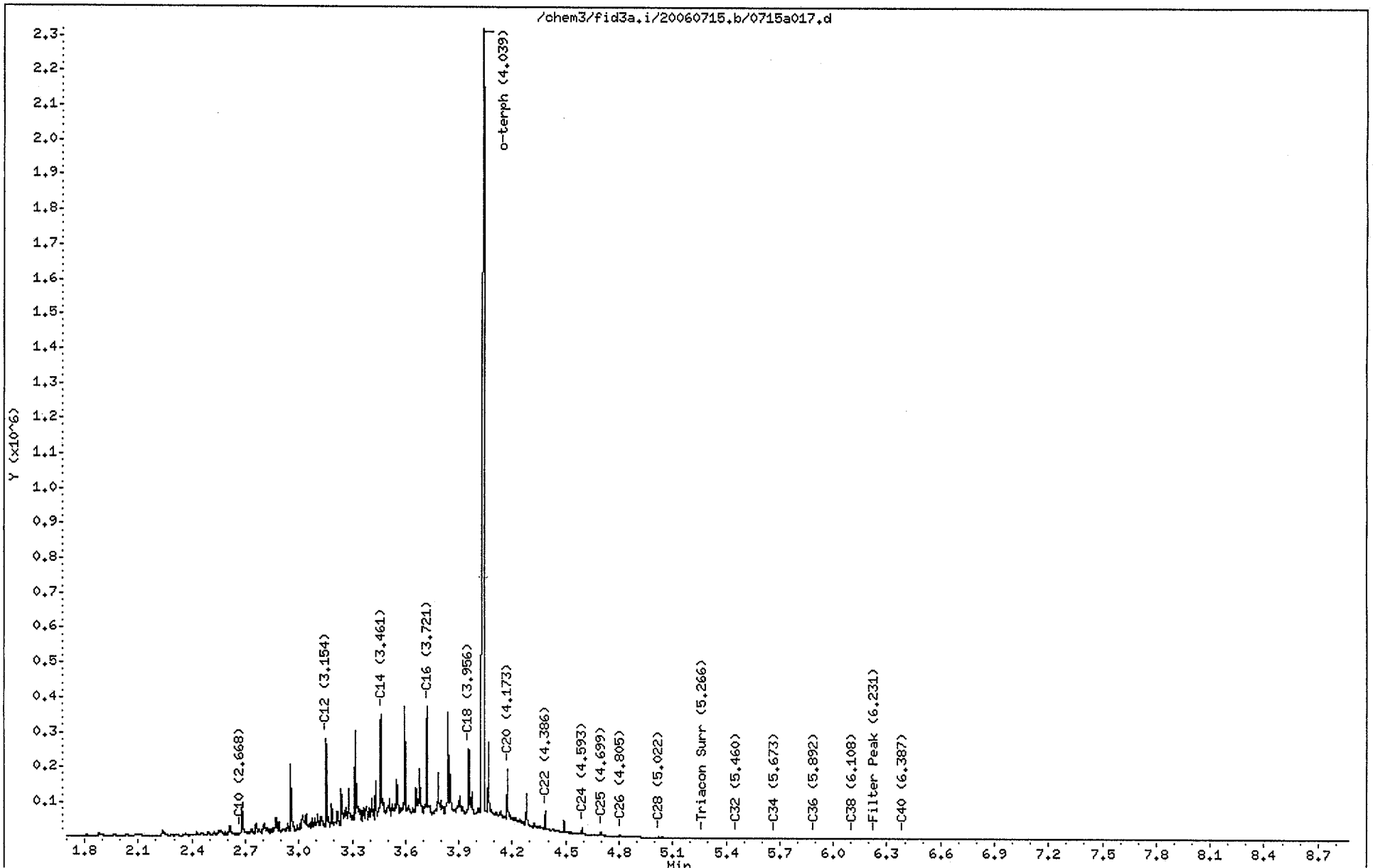
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1171



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a018.d ARI ID: 1000 PPM DIESEL
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 16:40
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.270	0.008	20680	23077	GAS (Tol-C12)	2742995	144
C8	1.465	0.015	16885	15226	DIESEL (C12-C24)	12533515	1013
C10	2.675	0.002	198156	101447	M.OIL (C24-C38)	271069	29
C12	3.154	0.000	565019	239642	AK-102 (C10-C25)	14730108	1009
C14	3.462	0.002	706670	322060	AK-103 (C25-C36)	247062	39
C16	3.724	0.004	686459	402240			
C18	3.947	-0.005	149580	75851			
C20	4.177	0.005	380784	257005			
C22	4.386	0.000	149740	90565	STODDARD (C8-C12)	2668215	178
C24	4.593	-0.003	57533	44359			
C25	4.698	-0.006	32721	27542			
C26	4.805	-0.005	17478	18531			
C28	5.020	-0.007	4302	3426			
C32	5.458	-0.008	1290	2508			
C34	5.671	-0.008	1996	2589			
Filter Peak	6.228	-0.001	1686	974			
C36	5.884	-0.002	1689.0	2341	o-Terph Surrogate Rec = 384.5%		(3148125)
C38	6.107	0.001	1755.0	1143	Triacon Surrogate Rec = 0.0%		(151)
C40	6.381	-0.003	1566	498			
o-terph	4.048	0.019	2645938	3148125	JET-A (C10-C18)	11099242	958
Triacon Surr	5.268	0.011	1089	151			

07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

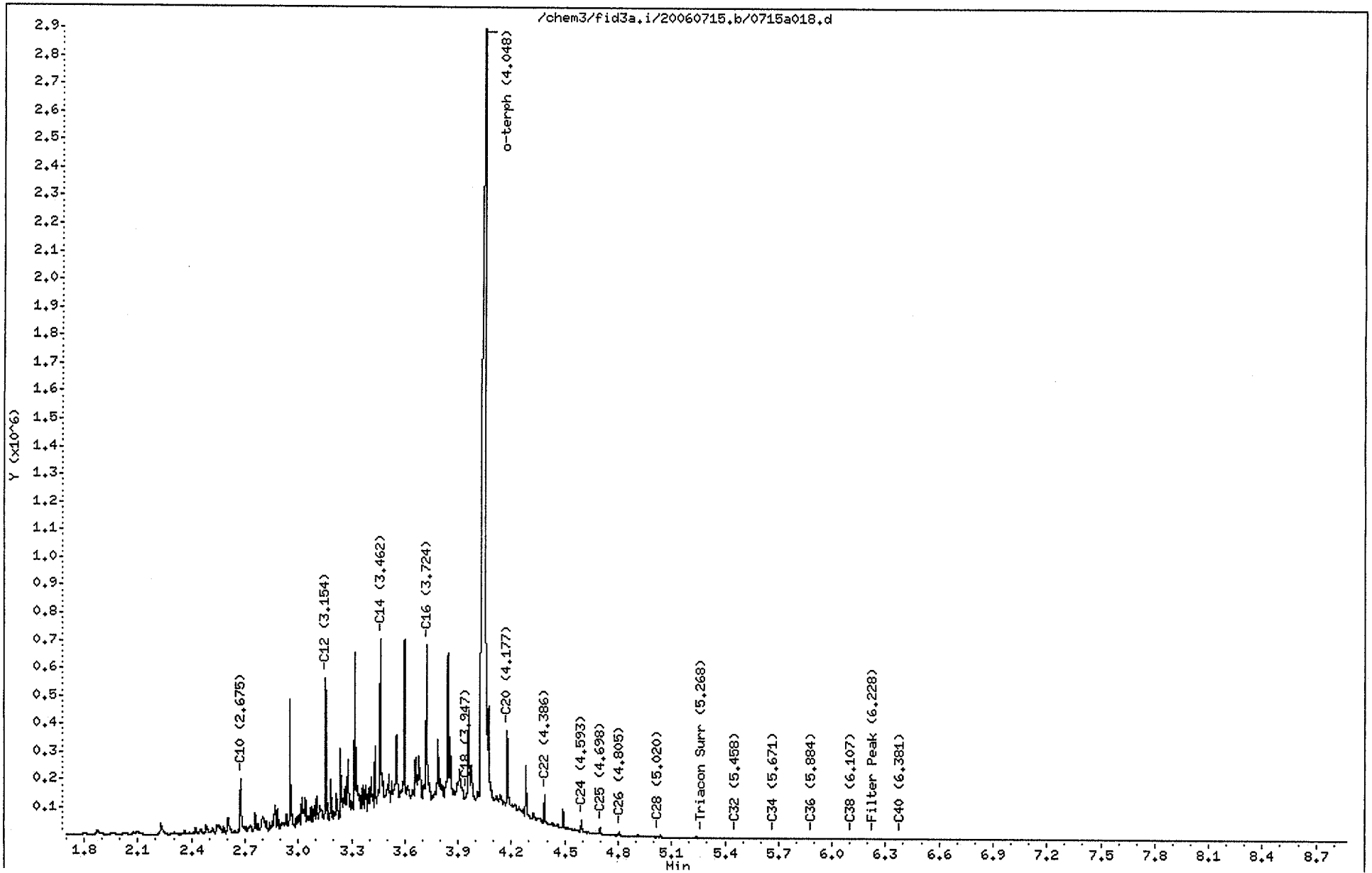
Data File: /chem3/fid3a.i/20060715.b/0715a018.d
Date : 15-JUL-2006 16:40
Client ID:
Sample Info: 1000 PPM DIESEL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1173



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a019.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006
ARI ID: 2500 PPM DIESEL
Client ID:
Injection: 15-JUL-2006 16:56
Dilution Factor: 1

Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.266	0.004	42051	41464	GAS (Tol-C12)	6870093	360
C8	1.458	0.007	40027	36479	DIESEL (C12-C24)	30951615	2501
C10	2.673	0.000	558406	233611	M.OIL (C24-C38)	662583	70
C12	3.157	0.003	1220877	614490	AK-102 (C10-C25)	36526040	2502
C14	3.468	0.008	1282555	1251860	AK-103 (C25-C36)	606692	96
C16	3.714	-0.006	447910	293913			
C18	3.969	0.016	722070	1016249			
C20	4.173	0.001	330504	188882			
C22	4.383	-0.003	147896	34905	STODDARD (C8-C12)	6742534	449
C24	4.597	0.001	148541	144673			
C25	4.701	-0.004	83330	70084			
C26	4.806	-0.004	43788	34936			
C28	5.022	-0.006	11115	8802			
C32	5.456	-0.010	2690	4826			
C34	5.671	-0.009	3261	4242			
Filter Peak	6.225	-0.004	1893	1124			
C36	5.886	-0.001	2545.0	2835	o-Terph Surrogate Rec = 1081.5% (8854023)		
C38	6.105	-0.002	2115.0	795	Triacon Surrogate Rec = 0.2% (1672)		
C40	6.388	0.003	1727	1428			
o-terph	4.069	0.039	3178695	8854023	JET-A (C10-C18)	27944529	2413
Triacon Surr	5.259	0.001	2558	1672			

pk 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

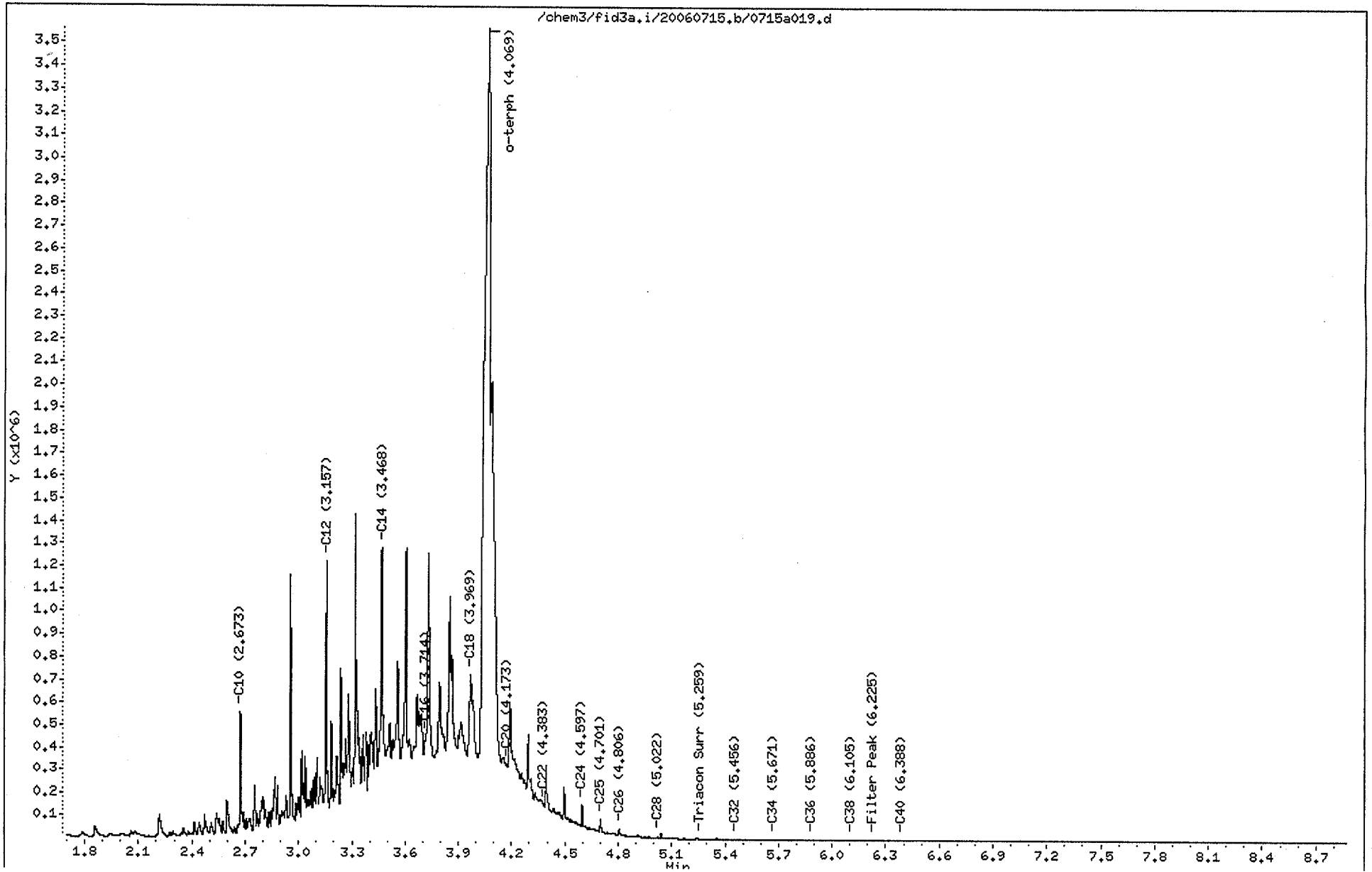
Data File: /chem3/fid3a.i/20060715.b/0715a019.d
Date : 15-JUL-2006 16:56
Client ID:
Sample Info: 2500 PPM DIESEL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1175



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a020.d ARI ID: DIESEL ICV
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 17:12
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.272	0.010	8656	13323	GAS (Tol-C12)	654067	34
C8	1.435	-0.015	1338	1737	DIESEL (C12-C24)	3028085	245
C10	2.671	-0.002	4239	2687	M.OIL (C24-C38)	85817	9
C12	3.154	0.001	136534	55993	AK-102 (C10-C25)	3549169	243
C14	3.460	0.000	179780	78551	AK-103 (C25-C36)	69510	11
C16	3.719	-0.001	201430	92484			
C18	3.953	0.001	145535	92936			
C20	4.171	-0.001	105380	50799			
C22	4.383	-0.003	37635	19336	STODDARD (C8-C12)	626952	42
C24	4.592	-0.004	14452	10701			
C25	4.698	-0.006	7802	6469			
C26	4.805	-0.005	4000	4812			
C28	5.023	-0.005	1011	835			
C32	5.460	-0.006	428	429			
C34	5.681	0.002	680	107			
Filter Peak	6.233	0.004	1405	307			
C36	5.891	0.004	1090.0	667	o-Terph Surrogate Rec = 100.3%		(821531)
C38	6.109	0.003	1334.0	372	Triacon Surrogate Rec = 0.0%		(175)
C40	6.386	0.002	1364	944			
o-terph	4.032	0.002	1666356	821531	JET-A (C10-C18)	2725915	235
Triacon Surr	5.267	0.009	314	175			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

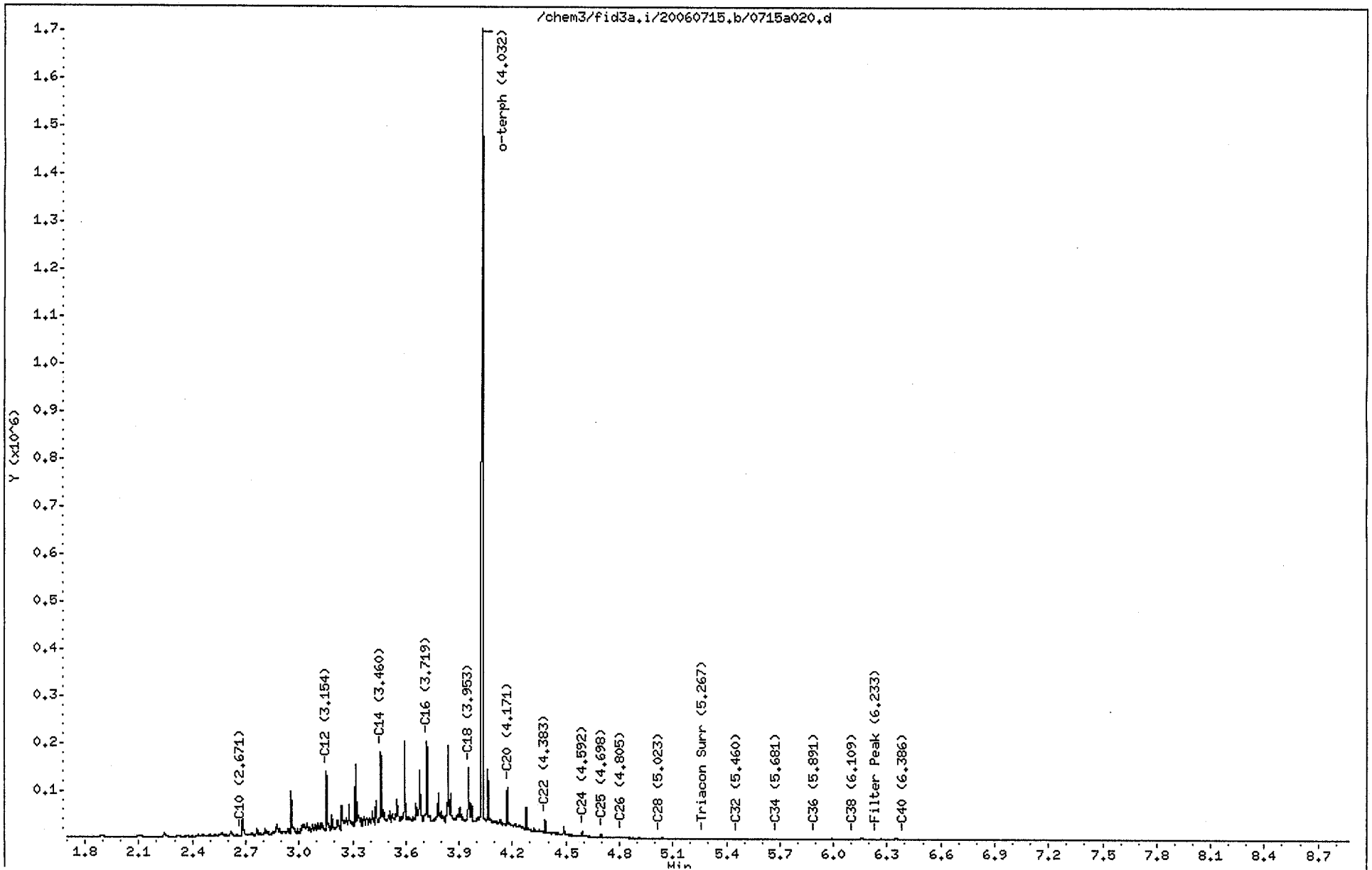
Data File: /chem3/fid3a.i/20060715.b/0715a020.d
Date : 15-JUL-2006 17:12
Client ID:
Sample Info: DIESEL ICV

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1177



6a
NW MOTOR OIL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR

Instrument: FID3A.I Project: T4 EARLY ACTION

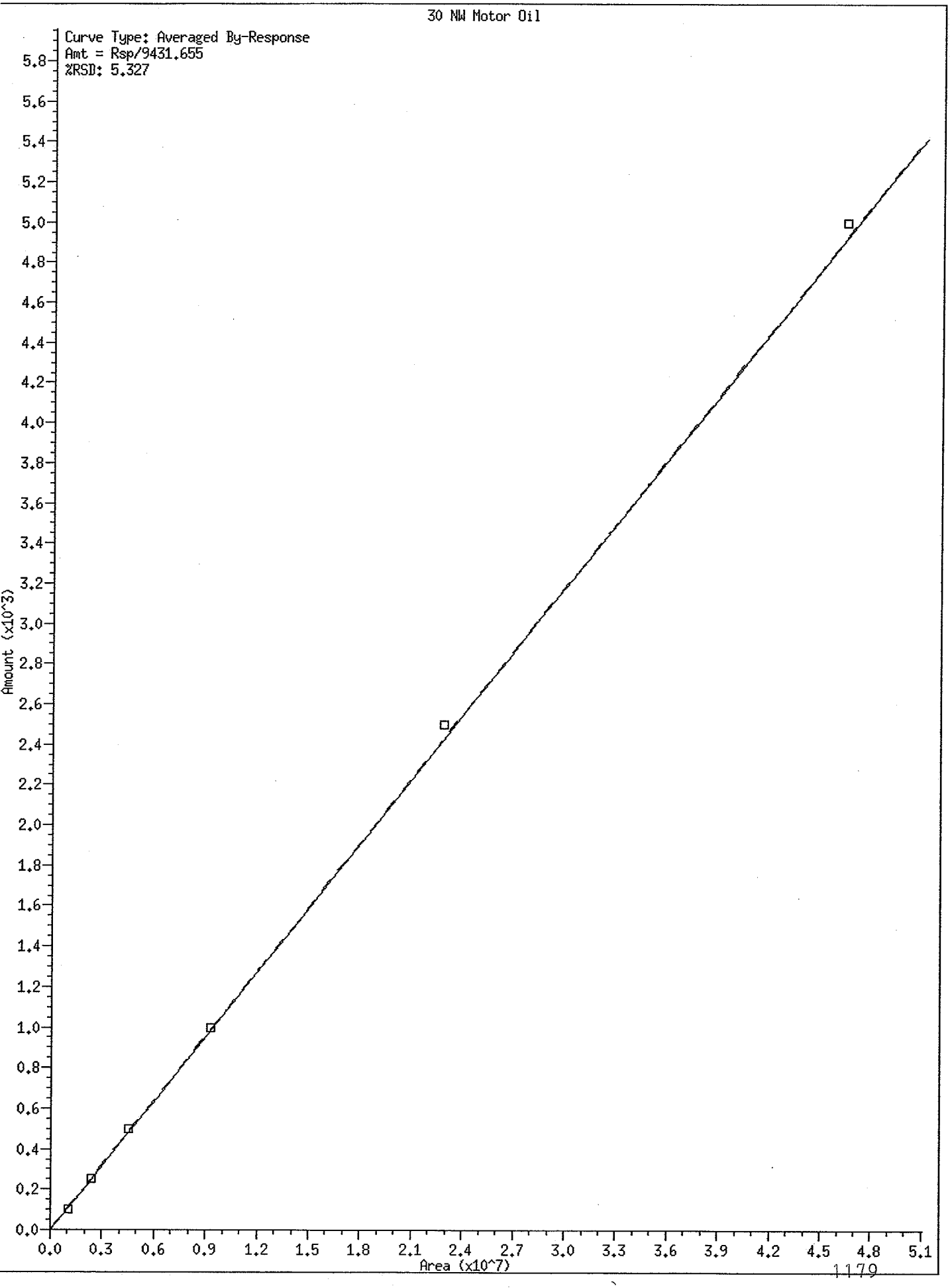
Calibration Date: 15-JUL-2006 SDG No.: JQ35

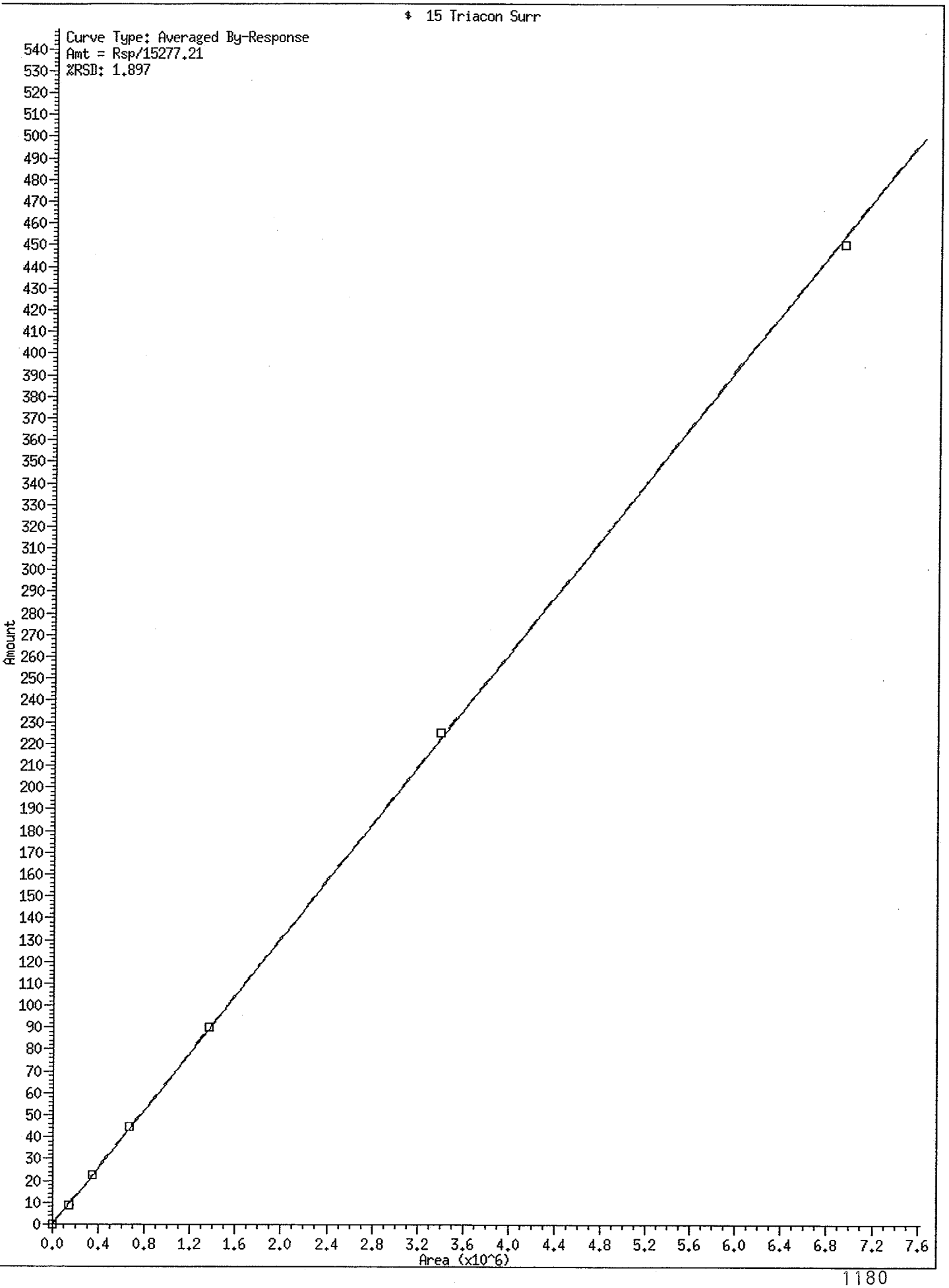
Motor Oil Range	RF1 100	RF2 250	RF3 500	RF4 1000	RF5 2500	RF6 5000	Ave RF	%RSD
WA M.Oil	10416	9440	9025	9278	9144	9288	9432	5.3
AK M.Oil	8382	7654	7369	7434	7314	7511	7611	5.2
OR M.Oil	9568	8404	8110	8408	8311	8185	8498	6.3
Triac Surr	15688	15428	14864	15176	15100	15407	15277	1.9

<- Indicates %RSD outside limits
Surrogate areas are not included in Motor Oil RF calculation.

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36
OR M.Oil C28-C40

Calibration Files	Analysis Time
0715a029.d	15-JUL-2006 19:35
0715a030.d	15-JUL-2006 19:50
0715a031.d	15-JUL-2006 20:06
0715a032.d	15-JUL-2006 20:22
0715a033.d	15-JUL-2006 20:38
0715a034.d	15-JUL-2006 20:54


30 NW Motor Oil
Curve Type: Averaged By-Response
Amt = Rsp/9431.655
%RSD: 5.327
Amount (x10^3)
Area (x10^7)
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6 5.8


$ 15 Triacon Surr
Curve Type: Averaged By-Response
Amt = Rsp/15277.21
%RSD: 1.897
Amount
Area (x10^6)
0.0 0.4 0.8 1.2 1.6 2.0 2.4 2.8 3.2 3.6 4.0 4.4 4.8 5.2 5.6 6.0 6.4 6.8 7.2 7.6
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a029.d ARI ID: 100 PPM MOIL
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 19:35
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	15030	1
C8	1.465	0.015	642	190	DIESEL (C12-C24)	155128	13
C10	2.665	-0.008	88	58	M.OIL (C24-C38)	1041620	110
C12	3.156	0.002	156	90	AK-102 (C10-C25)	163380	11
C14	3.462	0.002	171	36	AK-103 (C25-C36)	880201	139
C16	3.680	-0.040	71254	37425			
C18	3.959	0.007	332	188			
C20	4.175	0.003	1000	669			
C22	4.386	0.000	3158	2033	STODDARD (C8-C12)	15030	1
C24	4.600	0.004	6308	3097			
C25	4.707	0.003	7946	8560			
C26	4.803	-0.007	8364	3641			
C28	5.028	0.000	10070	2571			
C32	5.469	0.003	12930	3296			
C34	5.679	0.000	14936	5003			
Filter Peak	6.233	0.004	9236	2378			
C36	5.888	0.002	14768.0	10969	o-Terph Surrogate Rec = 0.2%		(1368)
C38	6.104	-0.002	11326.0	7574	Triacon Surrogate Rec = 20.5%		(141188)
C40	6.387	0.003	7586	2537			
o-terph	4.030	0.000	1683	1368	JET-A (C10-C18)	52604	5
Triacon Surr	5.246	-0.012	266719	141188			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

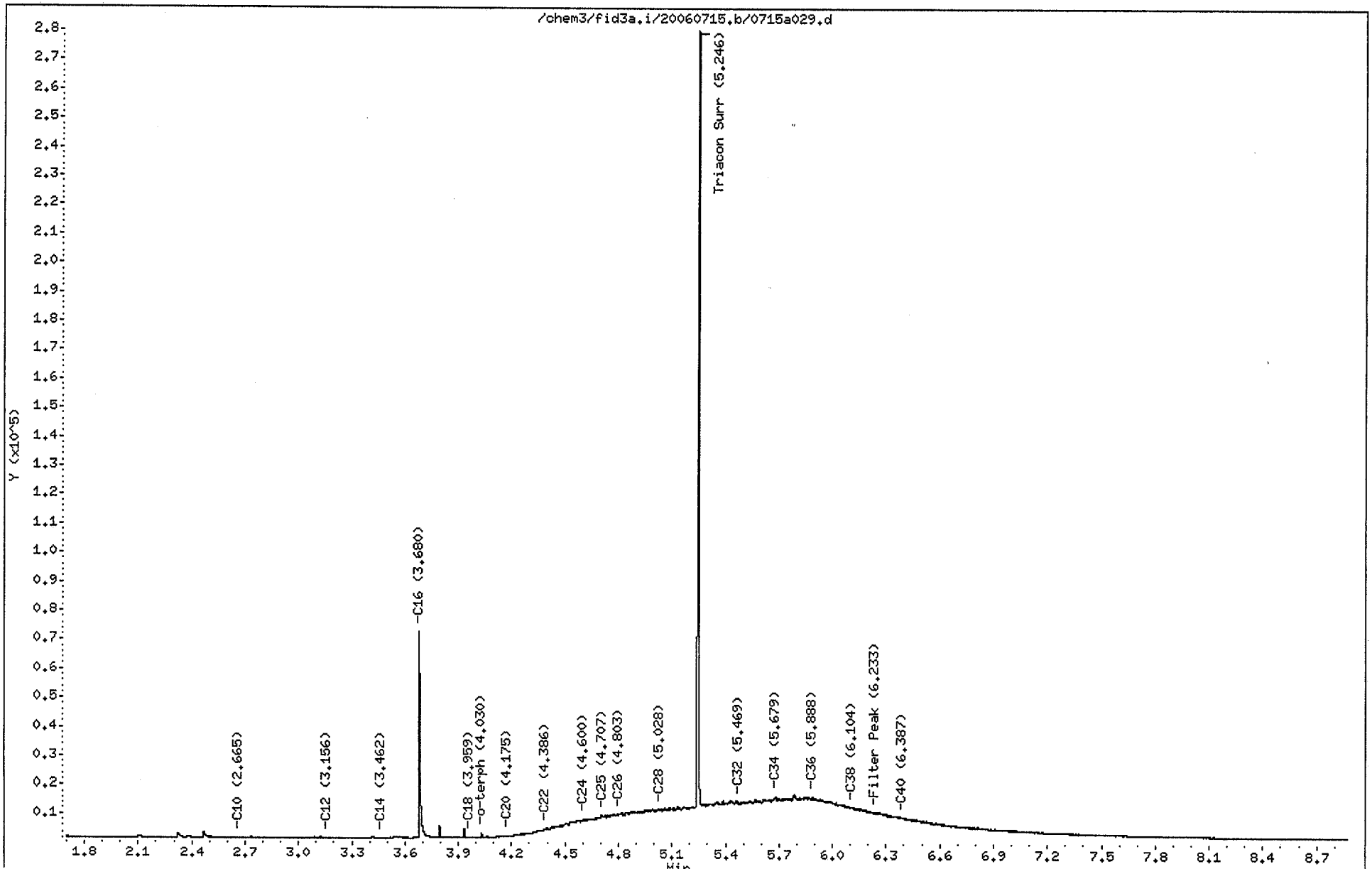
Data File: /chem3/fid3a.i/20060715.b/0715a029.d
Date : 15-JUL-2006 19:35
Client ID:
Sample Info: 100 PPM MOIL

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1182



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a030.d ARI ID: 250 PPM MOIL
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 19:50
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	17493	1
C8	1.457	0.007	678	468	DIESEL (C12-C24)	305031	25
C10	2.673	0.000	84	68	M.OIL (C24-C38)	2359962	250
C12	3.150	-0.003	159	108	AK-102 (C10-C25)	317327	22
C14	3.459	-0.001	186	65	AK-103 (C25-C36)	2014238	317
C16	3.678	-0.042	74718	37907			
C18	3.954	0.001	540	289			
C20	4.169	-0.002	2216	1779			
C22	4.383	-0.003	7223	2975	STODDARD (C8-C12)	17493	1
C24	4.597	0.000	14951	6631			
C25	4.708	0.004	18897	20506			
C26	4.816	0.006	21546	24557			
C28	5.028	0.000	23732	4247			
C32	5.471	0.005	30286	22609			
C34	5.677	-0.003	34225	16646			
Filter Peak	6.228	-0.001	19528	3481			
C36	5.883	-0.003	32631.0	22343	o-Terph Surrogate Rec = 0.3%		(2412)
C38	6.107	0.000	23147.0	8634	Triacon Surrogate Rec = 50.5%		(347132)
C40	6.378	-0.006	15291	8202			
o-terph	4.025	-0.004	3059	2412	JET-A (C10-C18)	59082	5
Triacon Surr	5.252	-0.006	566850	347132			

JA 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

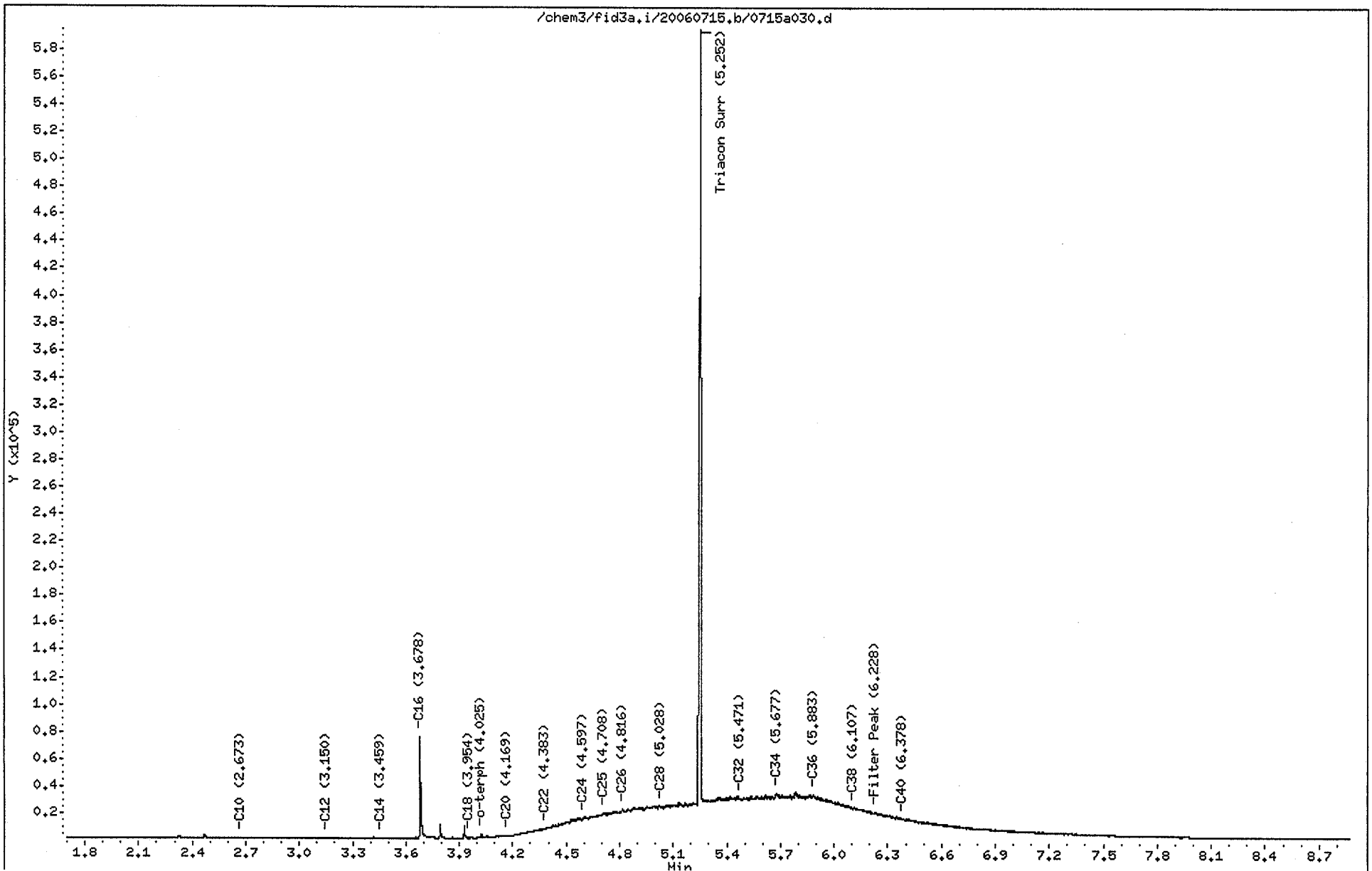
1184

Data File: /chem3/fid3a.i/20060715.b/0715a030.d
Date : 15-JUL-2006 19:50
Client ID:
Sample Info: 250 PPM MOIL

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a031.d ARI ID: 500 PPM MOIL
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 20:06
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	17382	1
C8	1.462	0.012	740	247	DIESEL (C12-C24)	556699	45
C10	2.673	0.000	81	41	M.OIL (C24-C38)	4512422	478
C12	3.153	0.000	206	169	AK-102 (C10-C25)	561118	38
C14	3.468	0.008	252	129	AK-103 (C25-C36)	3884153	612
C16	3.679	-0.041	68856	34265			
C18	3.954	0.002	934	538			
C20	4.170	-0.001	4270	3775			
C22	4.387	0.001	13922	10069	STODDARD (C8-C12)	17382	1
C24	4.597	0.001	29387	12532			
C25	4.706	0.002	35913	31584			
C26	4.807	-0.003	39052	18331			
C28	5.028	0.001	45196	11668			
C32	5.468	0.002	62060	55075			
C34	5.680	0.000	63644	16269			
Filter Peak	6.233	0.004	36201	7100			
C36	5.886	0.000	60314.0	13131	o-Terph Surrogate Rec = 0.4%		(3483)
C38	6.112	0.005	43693.0	9546	Triacon Surrogate Rec = 97.3%		(668897)
C40	6.386	0.002	28346	13388			
o-terph	4.026	-0.004	4552	3483	JET-A (C10-C18)	67307	6
Triacon Surr	5.260	0.002	829577	668897			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

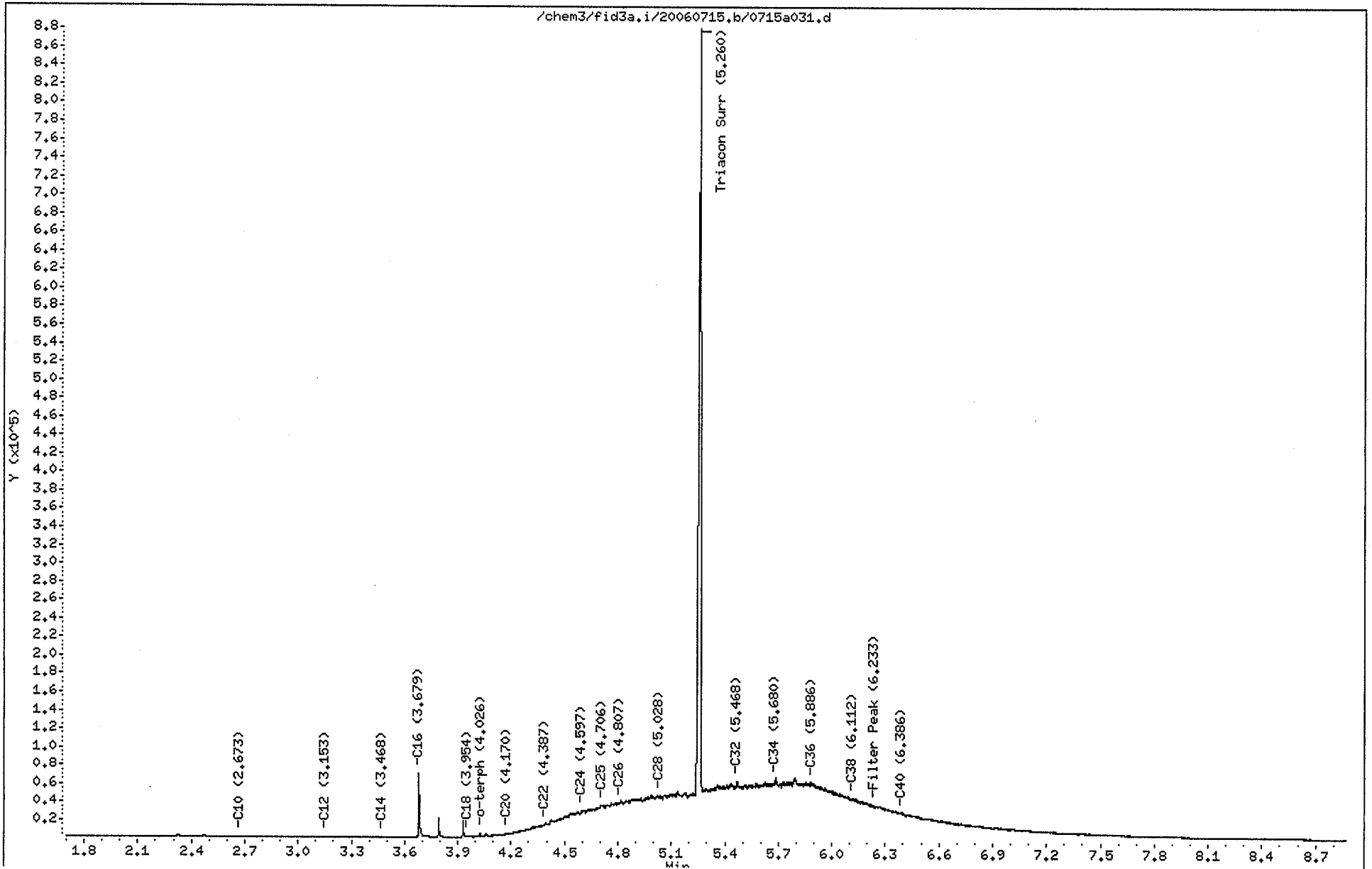
Data File: /chem3/fid3a.i/20060715.b/0715a031.d
Date : 15-JUL-2006 20:06
Client ID:
Sample Info: 500 PPM MOIL

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1186



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a032.d ARI ID: 1000 PPM MOIL
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 20:22
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	16254	1
C8	1.473	0.023	624	520	DIESEL (C12-C24)	1091082	88
C10	2.669	-0.004	95	35	M.OIL (C24-C38)	9277757	984
C12	3.150	-0.004	248	226	AK-102 (C10-C25)	1096300	75
C14	3.463	0.003	326	76	AK-103 (C25-C36)	7858512	1238
C16	3.723	0.003	1359	2156			
C18	3.951	-0.001	1912	1133			
C20	4.168	-0.004	8729	7540			
C22	4.383	-0.003	28031	9643	STODDARD (C8-C12)	16254	1
C24	4.594	-0.003	58113	50674			
C25	4.703	-0.001	69936	28481			
C26	4.806	-0.004	76725	56531			
C28	5.025	-0.003	93217	43489			
C32	5.466	0.000	117573	25540			
C34	5.680	0.000	126676	22518			
Filter Peak	6.231	0.002	83296	64731			
C36	5.890	0.003	135144.0	93875	o-Terph Surrogate Rec = 0.7%		(5776)
C38	6.108	0.001	98823.0	32988	Triacon Surrogate Rec = 198.7%		(1365847)
C40	6.386	0.002	63540	40727			
o-terph	4.023	-0.006	7371	5776	JET-A (C10-C18)	95835	8
Triacon Surr	5.270	0.013	1166425	1365847			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

Data File: /chem3/fid3a.i/20060715.b/0715a032.d

Date : 15-JUL-2006 20:22

Client ID:

Sample Info: 1000 PPM MOIL

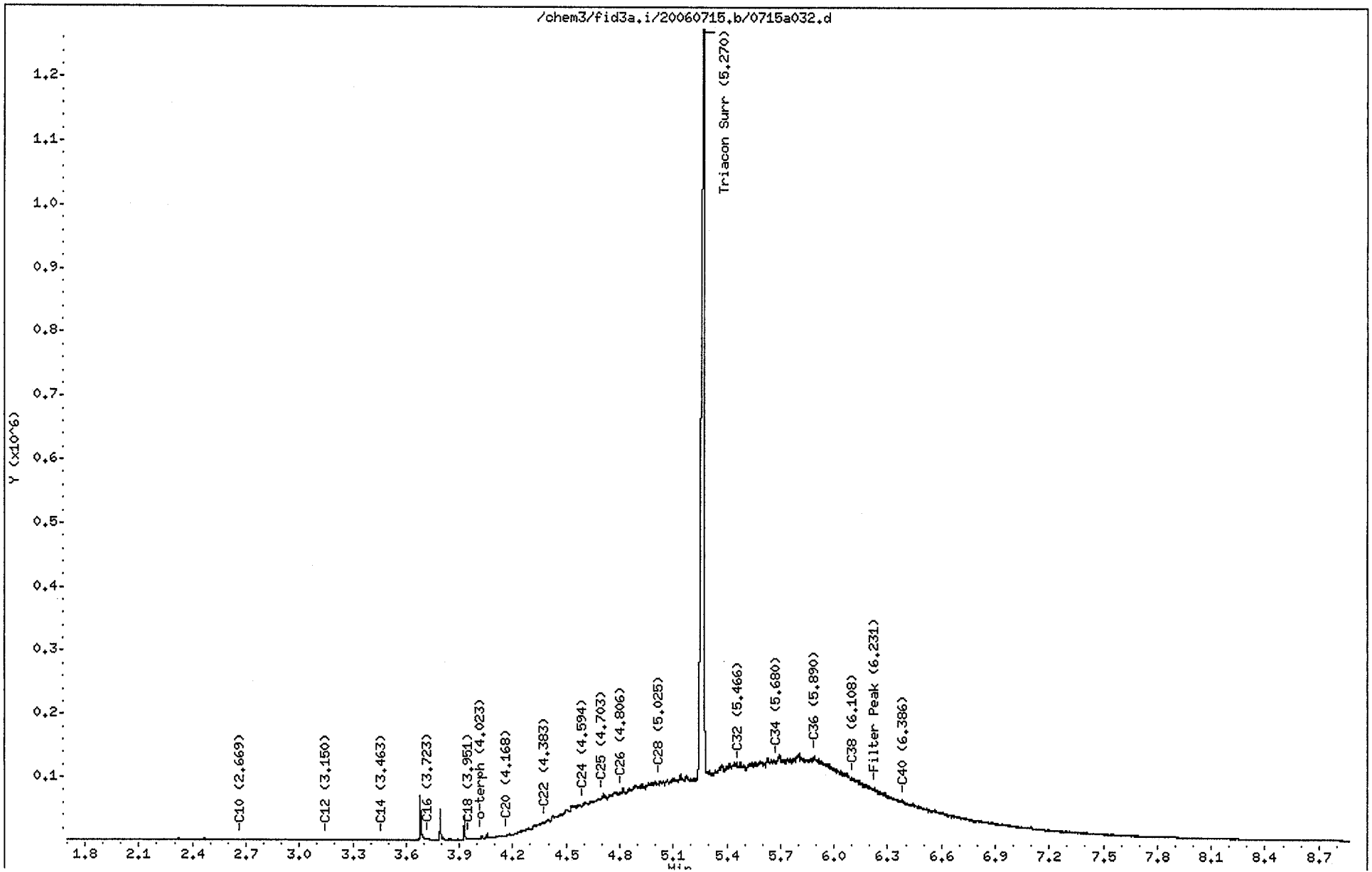
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1188



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a033.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006
ARI ID: 2500 PPM MOIL
Client ID:
Injection: 15-JUL-2006 20:38
Dilution Factor: 1

Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	22013	1
C8	1.475	0.025	789	1558	DIESEL (C12-C24)	2611095	211
C10	2.672	-0.001	118	13	M.OIL (C24-C38)	22859118	2424
C12	3.152	-0.001	481	158	AK-102 (C10-C25)	2690414	184
C14	3.459	-0.001	674	277	AK-103 (C25-C36)	19322897	3043
C16	3.720	0.000	4497	4622			
C18	3.950	-0.003	5174	2742			
C20	4.169	-0.003	21671	15825			
C22	4.387	0.001	69772	32388	STODDARD (C8-C12)	22013	1
C24	4.600	0.004	144685	144328			
C25	4.705	0.001	160759	25533			
C26	4.810	0.000	189555	52382			
C28	5.029	0.001	218247	43319			
C32	5.467	0.001	299864	87144			
C34	5.678	-0.001	312482	155734			
Filter Peak	6.227	-0.002	199315	78594			
C36	5.885	-0.001	321951.0	95436	o-Terph Surrogate Rec = 2.0%		(16436)
C38	6.113	0.007	236612.0	32921	Triacon Surrogate Rec = 494.2%		(3397477)
C40	6.380	-0.004	145279	79839			
o-terph	4.022	-0.008	23847	16436	JET-A (C10-C18)	183246	16
Triacon Surr	5.299	0.042	1532987	3397477			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

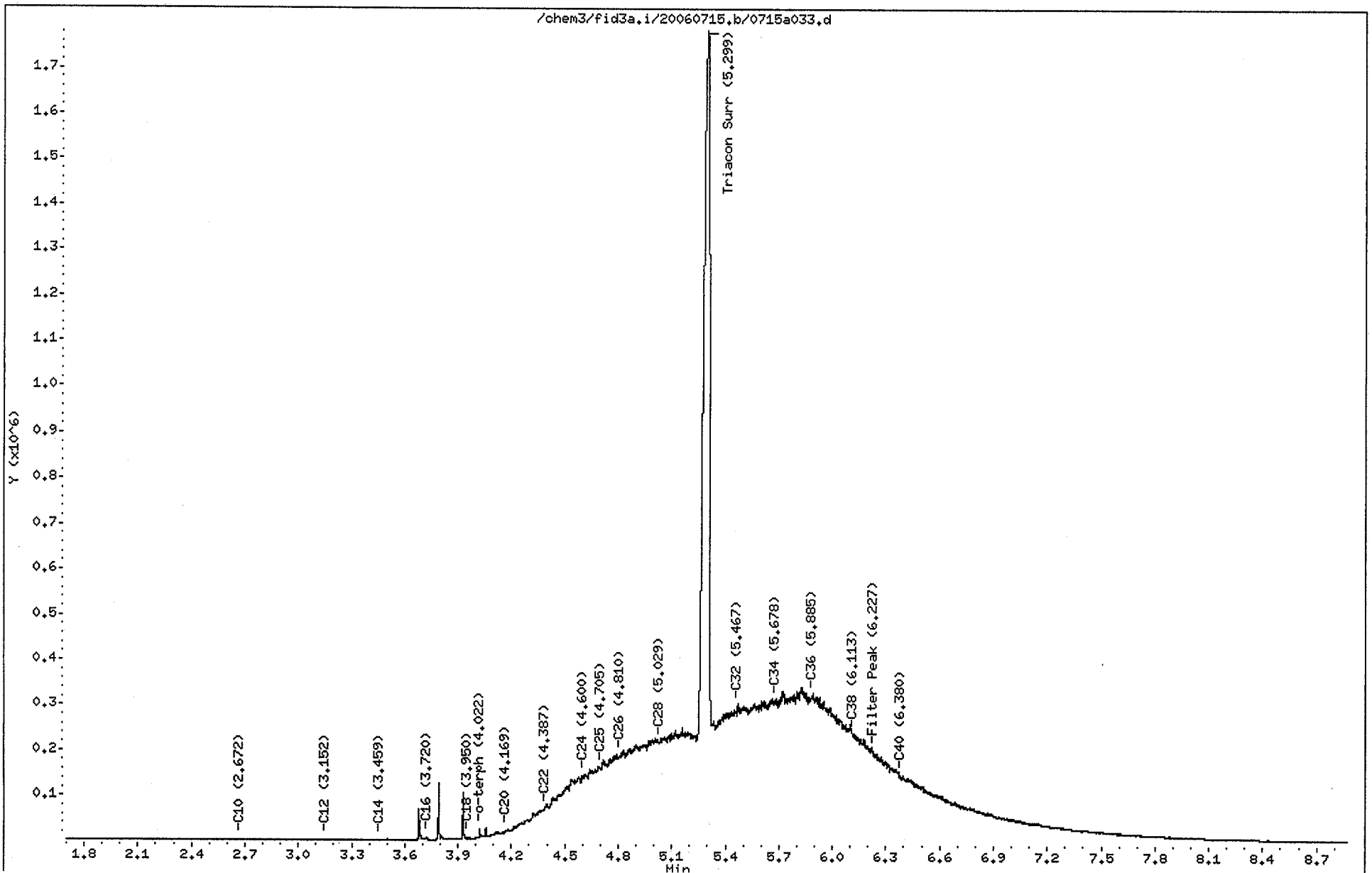
Data File: /chem3/fid3a.i/20060715.b/0715a033.d
Date : 15-JUL-2006 20:38
Client ID:
Sample Info: 2500 PPM MOIL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1190



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a034.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006
ARI ID: 5000 PPM MOIL
Client ID:
Injection: 15-JUL-2006 20:54
Dilution Factor: 1

Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.290	0.028	56895	42445	GAS (Tol-C12)	194544	10
C8	1.463	0.013	762	196	DIESEL (C12-C24)	5033541	407
C10	2.680	0.007	179	90	M.OIL (C24-C38)	46438173	4924
C12	3.156	0.003	825	608	AK-102 (C10-C25)	5232264	358
C14	3.465	0.005	2680	1817	AK-103 (C25-C36)	39599815	6237
C16	3.721	0.001	3850	4215			
C18	3.950	-0.002	10318	5218			
C20	4.171	0.000	43516	33278			
C22	4.389	0.003	142741	63184	STODDARD (C8-C12)	25036	2
C24	4.601	0.004	281552	88396			
C25	4.702	-0.002	335110	297445			
C26	4.807	-0.003	380731	119826			
C28	5.031	0.003	474501	239562			
C32	5.464	-0.002	575313	91386			
C34	5.678	-0.001	643293	153511			
Filter Peak	6.232	0.003	361231	127826			
C36	5.886	0.000	653679.0	155139	o-Terph Surrogate Rec = 0.5% (4288)		
C38	6.103	-0.004	475930.0	288646	Triacon Surrogate Rec = 1008.5% (6933264)		
C40	6.385	0.001	254588	233268			
o-terph	4.036	0.007	15561	4288	JET-A (C10-C18)	316431	27
Triacon Surr	5.339	0.082	2170701	6933264			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

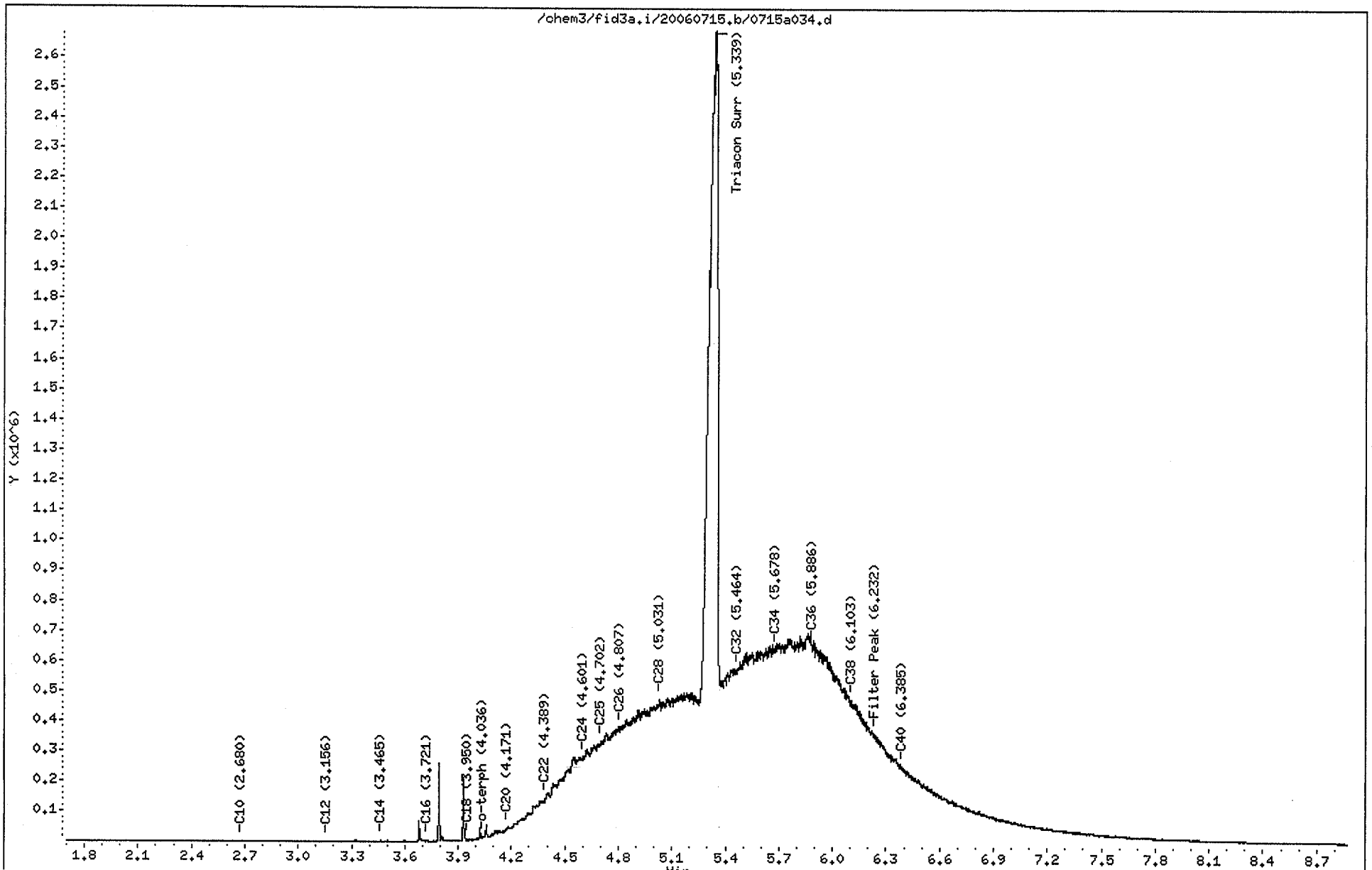
Data File: /chem3/fid3a.i/20060715.b/0715a034.d
Date : 15-JUL-2006 20:54
Client ID:
Sample Info: 5000 PPM MOIL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1192



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a035.d ARI ID: MOIL ICV
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 21:09
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	15110	1
C8	1.449	-0.001	709	762	DIESEL (C12-C24)	530817	43
C10	2.678	0.005	77	20	M.OIL (C24-C38)	4525768	480
C12	3.155	0.001	236	201	AK-102 (C10-C25)	552589	38
C14	3.466	0.006	296	113	AK-103 (C25-C36)	3840248	605
C16	3.680	-0.040	67258	32786			
C18	3.954	0.001	1042	573			
C20	4.170	-0.002	4168	2797			
C22	4.386	0.000	13923	10194	STODDARD (C8-C12)	15110	1
C24	4.595	-0.001	27723	7682			
C25	4.703	-0.001	32630	12008			
C26	4.807	-0.003	35449	7022			
C28	5.026	-0.002	44380	24612			
C32	5.465	-0.001	58827	42732			
C34	5.680	0.001	66535	21962			
Filter Peak	6.224	-0.005	41353	27310			
C36	5.889	0.003	65543.0	35755	o-Terph Surrogate Rec = 0.5%		(3882)
C38	6.104	-0.002	48408.0	31481	Triacon Surrogate Rec = 91.8%		(631136)
C40	6.382	-0.002	32014	16451			
o-terph	4.025	-0.004	5864	3882	JET-A (C10-C18)	68242	6
Triacon Surr	5.257	0.000	810352	631136			

JC 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

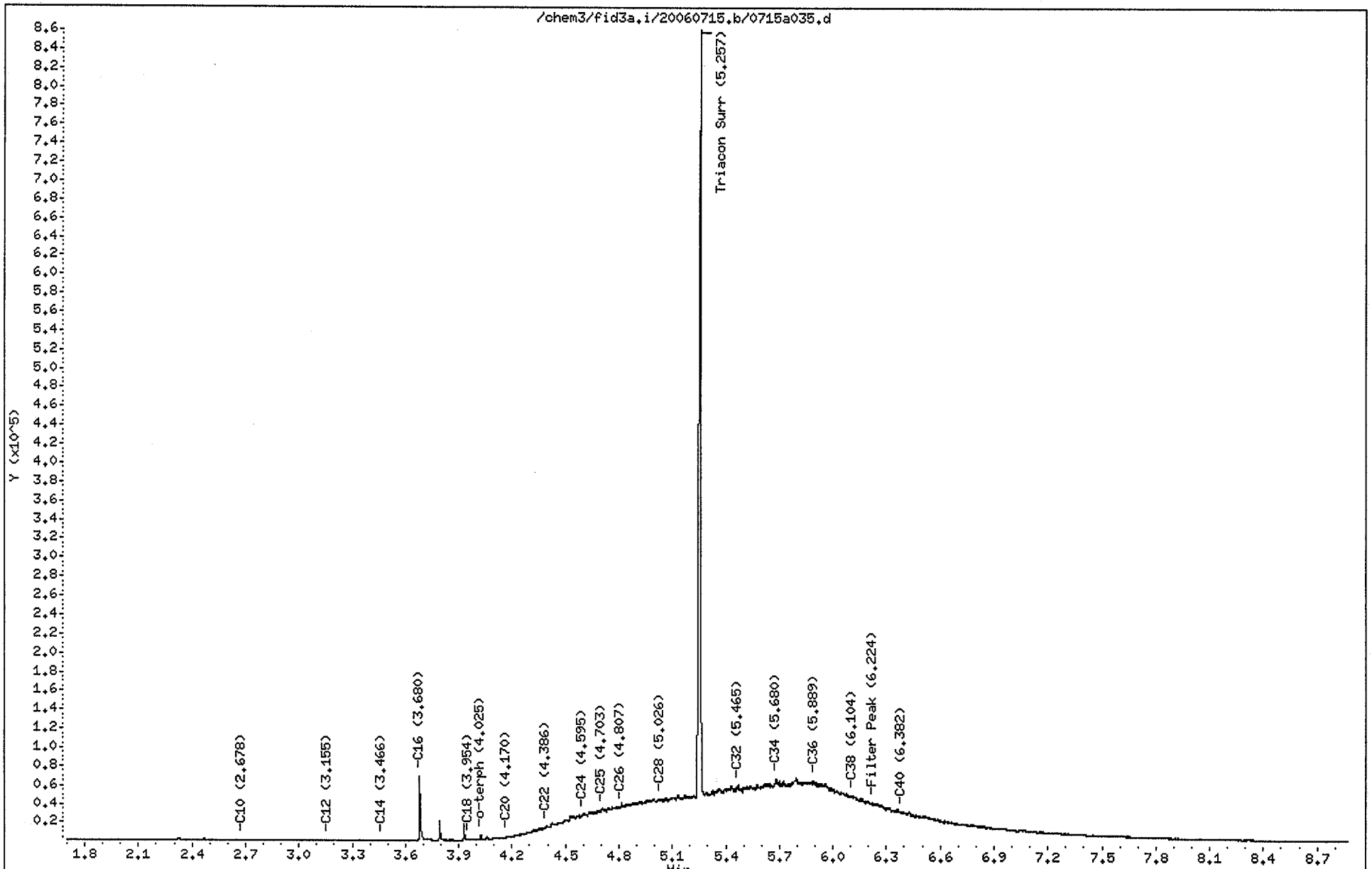
Data File: /chem3/fid3a.i/20060715.b/0715a035.d
Date : 15-JUL-2006 21:09
Client ID:
Sample Info: MOIL ICV

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1194



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a002.d
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 08/02/2006
Macro: 21-JUN-2006
ARI ID: RT
Client ID:
Injection: 01-AUG-2006 13:18
Dilution Factor: 1

Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.251	0.000	458997	307425	GAS (Tol-C12)	1005020	50
C8	1.436	0.000	249680	205771	DIESEL (C12-C24)	1397868	113
C10	2.659	0.000	498751	206019	M.OIL (C24-C38)	1750166	186
C12	3.138	0.000	568998	212068	AK-102 (C10-C25)	1835465	126
C14	3.443	0.000	500314	215471	AK-103 (C25-C36)	1523996	240
C16	3.701	0.000	615434	224512			
C18	3.937	0.000	551685	228257			
C20	4.161	0.000	604733	230648			
C22	4.379	0.000	552469	230586	STODDARD (C8-C12)	667666	44
C24	4.592	0.000	503348	234715			
C25	4.698	0.000	639692	311049			
C26	4.800	0.000	489480	235926			
C28	5.007	0.000	459446	230194			
C32	5.426	0.000	401721	233084			
C34	5.631	0.000	385050	227351			
Filter Peak	6.206	0.000	1411	641			
C36	5.831	0.000	407401.0	232757	o-Terph Surrogate Rec = 88.3%		(723270)
C38	6.035	0.000	302027.0	203156	Triacon Surrogate Rec = 103.9%		(714080)
C40	6.286	0.000	206256	183309			
o-terph	4.015	0.000	1416779	723270	JET-A (C10-C18)	1125147	97
Triacon Surr	5.225	0.000	984656	714080			

JR 08/02/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a002.d

Date : 01-AUG-2006 13:18

Client ID:

Sample Info: RT

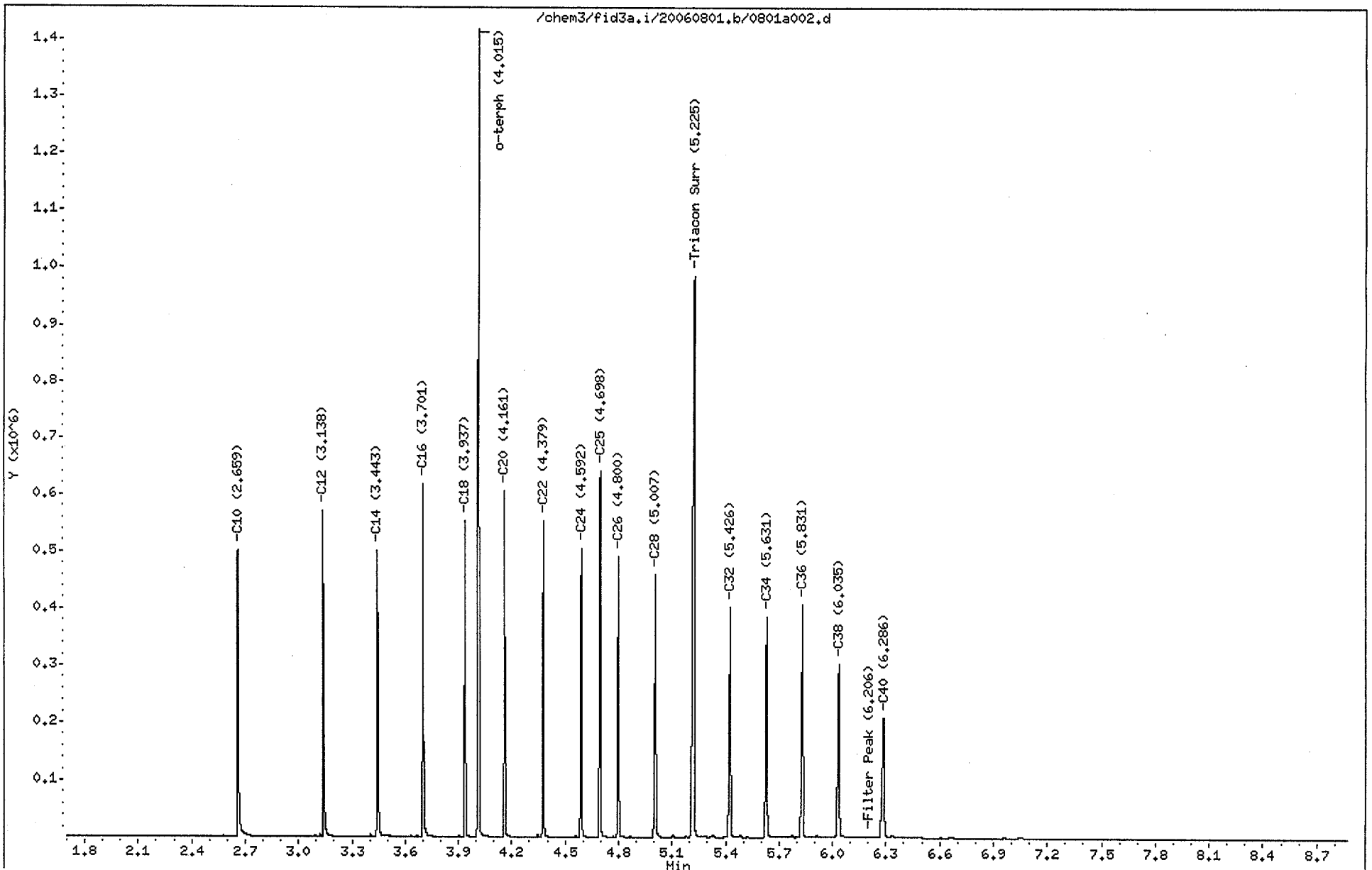
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1196



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a003.d
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 08/02/2006
Macro: 21-JUN-2006
ARI ID: IB
Client ID:
Injection: 01-AUG-2006 13:34
Dilution Factor: 1

Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	19706	1
C8	1.465	0.029	1128	1706	DIESEL (C12-C24)	24000	2
C10	2.657	-0.002	29	5	M.OIL (C24-C38)	61555	7
C12	3.127	-0.011	2007	1079	AK-102 (C10-C25)	27067	2
C14	3.436	-0.007	127	73	AK-103 (C25-C36)	48213	8
C16	3.697	-0.004	400	233			
C18	3.936	-0.001	383	294			
C20	4.171	0.010	687	1004			
C22	4.382	0.003	2648	1534	STODDARD (C8-C12)	19706	1
C24	4.589	-0.002	855	822			
C25	4.703	0.006	3054	2055			
C26	4.792	-0.008	899	980			
C28	4.997	-0.010	1278	859			
C32	5.418	-0.008	2137	2890			
C34	5.629	-0.003	3961	2878			
Filter Peak	6.202	-0.004	852	446			
C36	5.829	-0.002	1015.0	2366	o-Terph Surrogate Rec = 87.5%		(716395)
C38	6.034	-0.001	1142.0	1855	Triacon Surrogate Rec = 101.5%		(697516)
C40	6.282	-0.004	1027	1125			
o-terph	4.012	-0.002	1456696	716395	JET-A (C10-C18)	12522	1
Triacon Surr	5.221	-0.004	948701	697516			

8/02/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

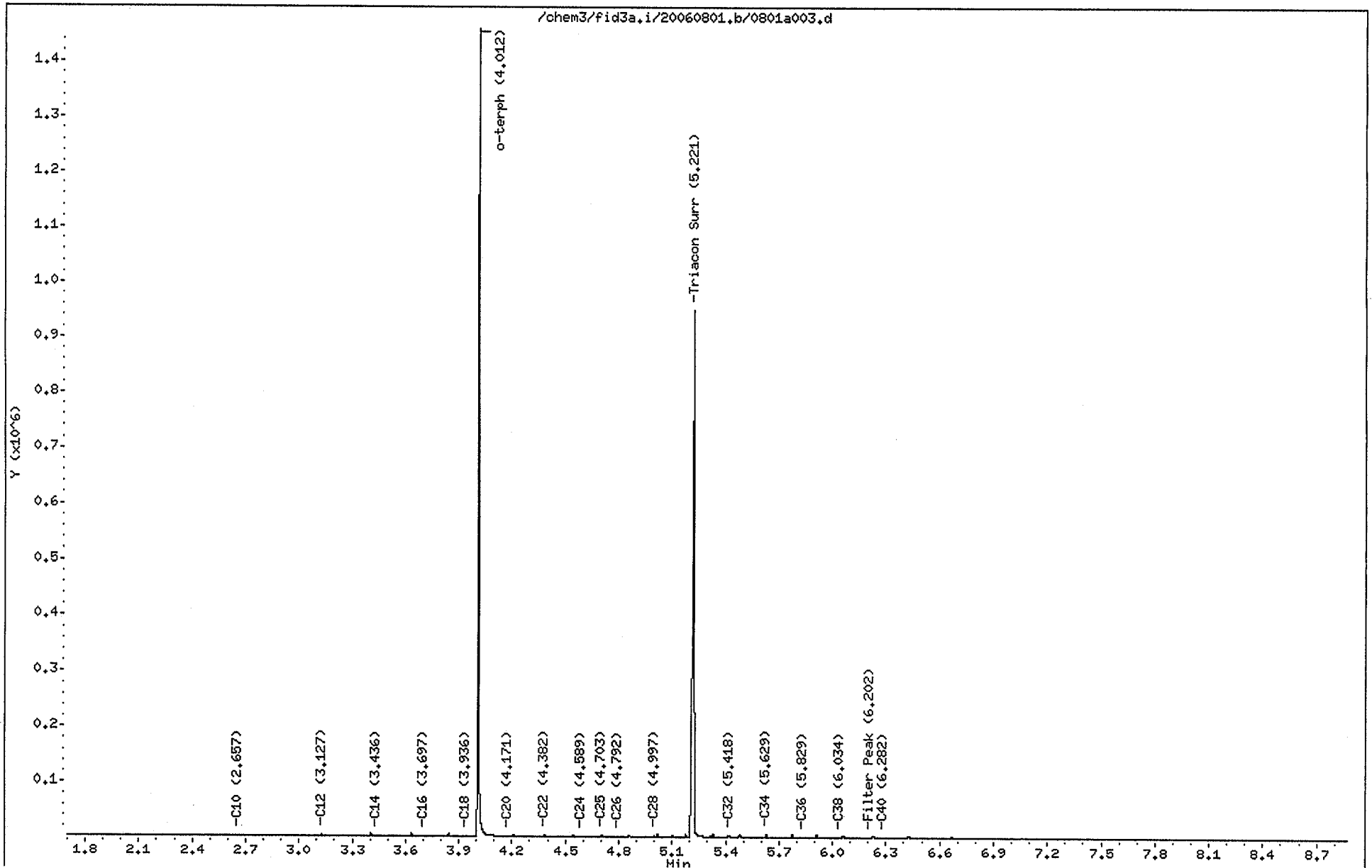
1198

Data File: /chem3/fid3a.i/20060801.b/0801a003.d
Date : 01-AUG-2006 13:34
Client ID:
Sample Info: IB

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1



7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006 Project: T4 EARLY ACTION

CCal Date: 01-AUG-2006 SDG No.: JQ35

Analysis Time: 13:50 Lab ID: DIESEL#1

Instrument: FID3A.I Lab File Name: 0801a004.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	3139958	253.7	250	1.5
AK102 (C10-C25)	3687814	254.1	250	1.7
Terphenyl	840643	46.2	45	2.7

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a004.d
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 08/02/2006
Macro: 21-JUN-2006
ARI ID: DIESEL#1
Client ID:
Injection: 01-AUG-2006 13:50
Dilution Factor: 1

Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.268	0.017	10430	14966	GAS (Tol-C12)	739110	37
C8	1.428	-0.008	2463	3410	DIESEL (C12-C24)	3139958	254
C10	2.655	-0.004	4783	3094	M.OIL (C24-C38)	139023	15
C12	3.139	0.001	127838	58049	AK-102 (C10-C25)	3687814	254
C14	3.442	-0.001	177455	83803	AK-103 (C25-C36)	120275	19
C16	3.699	-0.002	206104	94603			
C18	3.934	-0.003	148102	80757			
C20	4.166	0.005	32297	22789			
C22	4.389	0.011	12423	1481	STODDARD (C8-C12)	705339	47
C24	4.592	0.000	6282	3273			
C25	4.695	-0.003	11320	10289			
C26	4.808	0.008	2449	959			
C28	5.010	0.003	10858	7749			
C32	5.418	-0.008	719	661			
C34	5.626	-0.005	6985	4807			
Filter Peak	6.196	-0.010	1041	892			
C36	5.834	0.003	977.0	521	o-Terph Surrogate Rec = 102.7%		(840643)
C38	6.030	-0.005	1075.0	528	Triacon Surrogate Rec = 0.1%		(397)
C40	6.288	0.002	960	189			
o-terph	4.013	-0.001	1610953	840643	JET-A (C10-C18)	2839077	245
Triacon Surr	5.229	0.004	807	397			

JR 08/02/06

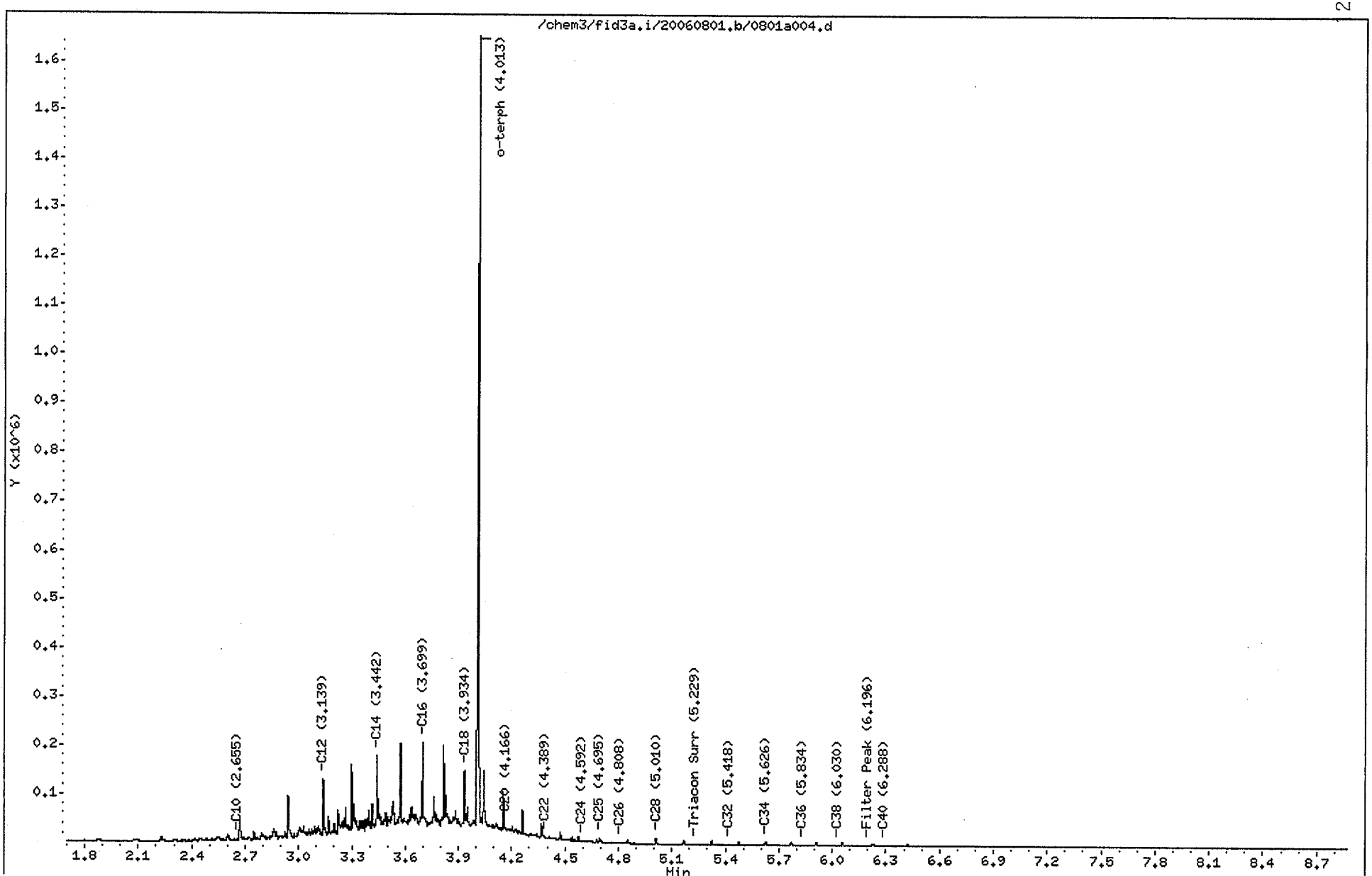
Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a004.d
Date : 01-AUG-2006 13:50
Client ID:
Sample Info: DIESEL#1

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25



7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006 Project: T4 EARLY ACTION

CCal Date: 01-AUG-2006 SDG No.: JQ35

Analysis Time: 14:05 Lab ID: MOIL#1

Instrument: FID3A.I Lab File Name: 0801a005.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil(C24-C38)	4464842	473.4	500	-5.3
AK103 (C25-C36)	3802843	599.0	500	19.8
n-Triacontane	642557	42.1	45	-6.5

* Surrogate areas are subtracted from range areas

<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a005.d
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 08/02/2006
Macro: 21-JUN-2006
ARI ID: MOIL#1
Client ID:
Injection: 01-AUG-2006 14:05
Dilution Factor: 1

Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	5.221	3.970	795624	642557	GAS (Tol-C12)	40070	2
C8	1.439	0.002	1356	486	DIESEL (C12-C24)	558433	45
C10	2.653	-0.005	208	107	M.OIL (C24-C38)	4464842	473
C12	3.130	-0.008	1610	1478	AK-102 (C10-C25)	576010	40
C14	3.438	-0.005	583	492	AK-103 (C25-C36)	3802843	599
C16	3.702	0.001	759	268			
C18	3.936	-0.001	1768	1331			
C20	4.162	0.001	4620	1004			
C22	4.381	0.003	16243	11683	STODDARD (C8-C12)	40070	3
C24	4.591	-0.001	29482	21485			
C25	4.699	0.001	35656	4948			
C26	4.799	-0.001	41377	15945			
C28	5.010	0.003	51243	50310			
C32	5.427	0.001	60772	29593			
C34	5.631	0.000	65897	47487			
Filter Peak	6.208	0.002	34955	22173			
C36	5.828	-0.003	64331.0	32477	o-Terph Surrogate Rec = 1.1%		(8978)
C38	6.035	0.000	49471.0	24249	Triacon Surrogate Rec = 93.5%		(642557)
C40	6.283	-0.002	28563	6248			
o-terph	4.009	-0.006	16370	8978	JET-A (C10-C18)	57803	5
Triacon Surr	5.221	-0.004	795624	642557			

JR 08/02/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a005.d

Date : 01-AUG-2006 14:05

Client ID:

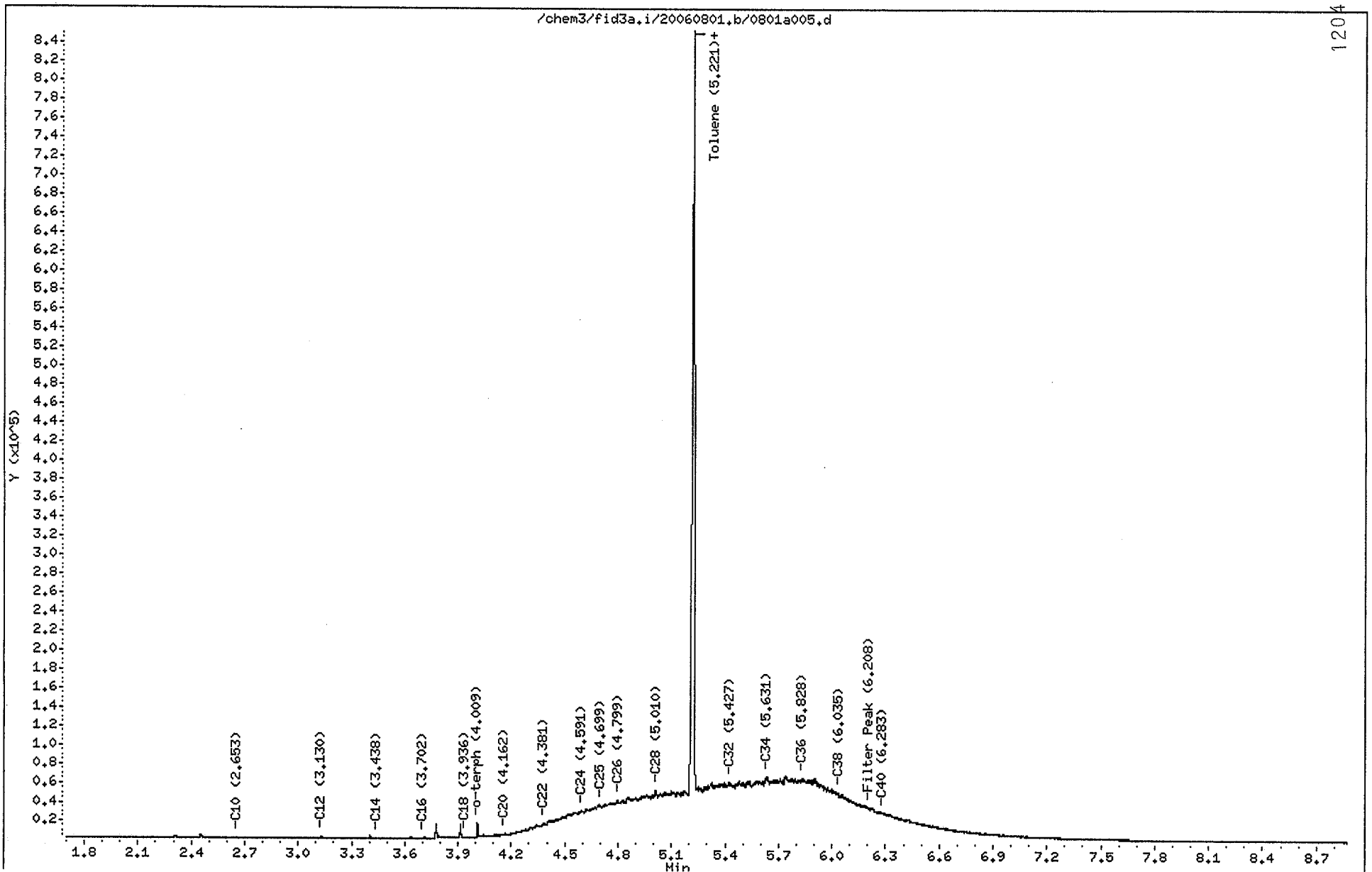
Sample Info: MOIL#1

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



7a

DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.
Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006
Project: T4 EARLY ACTION

CCal Date: 01-AUG-2006
SDG No.: JQ35

Analysis Time: 16:57
Lab ID: DIESEL#2

Instrument: FID3A.I
Lab File Name: 0801a016.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	3215497	259.8	250	3.9
AK102 (C10-C25)	3782105	260.6	250	4.2
Terphenyl	852272	46.8	45	4.1

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a016.d ARI ID: DIESEL#2
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 16:57
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.273	0.023	12266	17319	GAS (Tol-C12)	771584	39
C8	1.435	-0.002	2756	3859	DIESEL (C12-C24)	3215497	260
C10	2.656	-0.002	4793	3174	M.OIL (C24-C38)	164826	17
C12	3.139	0.001	134908	58142	AK-102 (C10-C25)	3782105	261
C14	3.443	0.000	180122	82775	AK-103 (C25-C36)	143526	23
C16	3.700	-0.001	205068	98580			
C18	3.934	-0.003	150620	84367			
C20	4.162	0.001	33260	27112			
C22	4.374	-0.005	19427	15996	STODDARD (C8-C12)	733443	49
C24	4.600	0.009	6021	2990			
C25	4.693	-0.005	11718	13492			
C26	4.805	0.005	2628	1433			
C28	5.008	0.001	10990	8324			
C32	5.413	-0.013	979	683			
C34	5.624	-0.007	7612	5635			
Filter Peak	6.208	0.002	1300	232			
C36	5.836	0.005	1293.0	1688	o-Terph Surrogate Rec = 104.1%		(852272)
C38	6.037	0.002	1414.0	446	Triacon Surrogate Rec = 0.1%		(809)
C40	6.289	0.004	1245	590			
o-terph	4.013	-0.002	1598533	852272	JET-A (C10-C18)	2908247	251
Triacon Surr	5.235	0.011	1103	809			

JR 08/02/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a016.d

Date : 01-AUG-2006 16:57

Client ID:

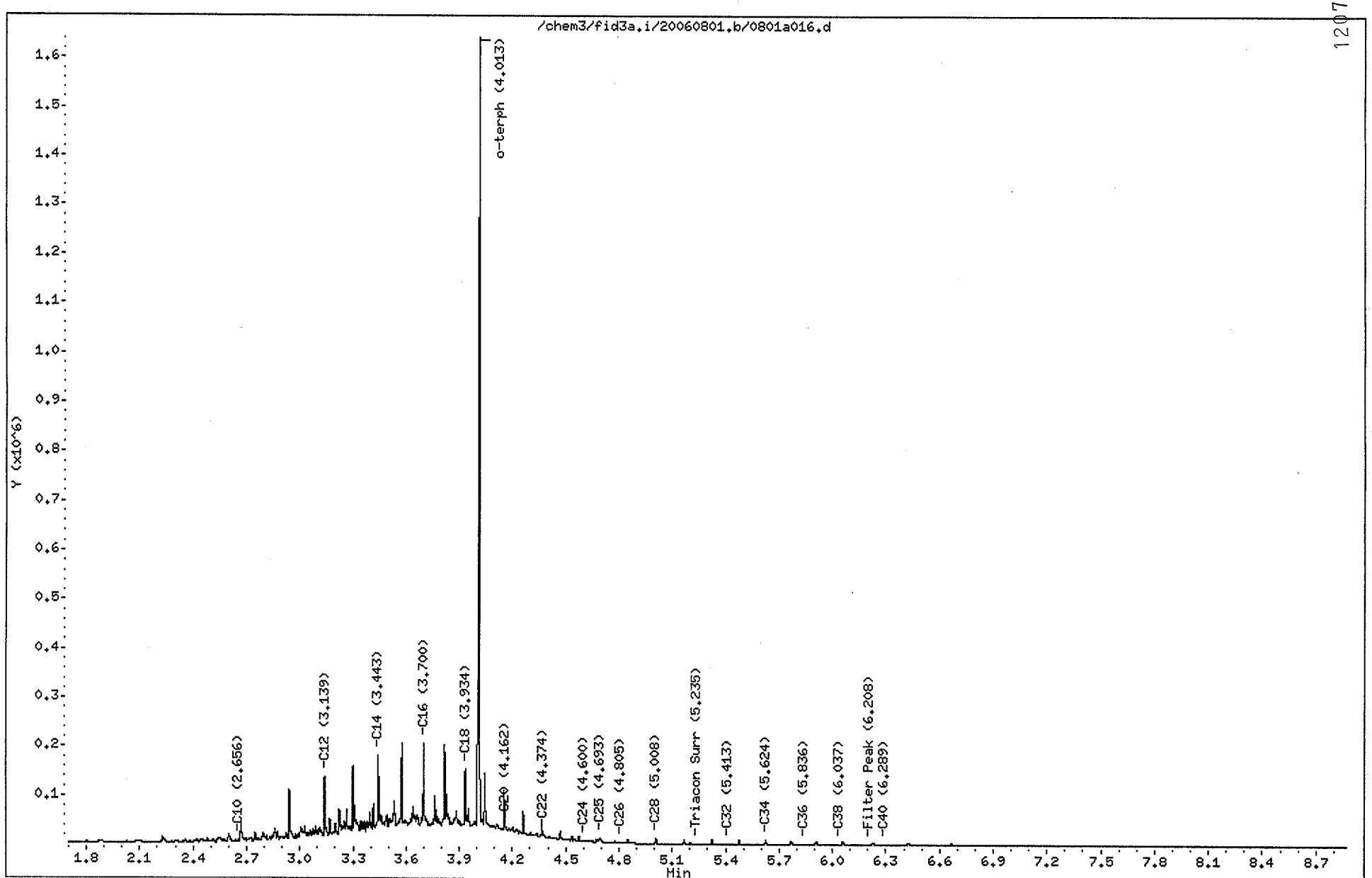
Sample Info: DIESEL#2

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006 Project: T4 EARLY ACTION

CCal Date: 01-AUG-2006 SDG No.: JQ35

Analysis Time: 17:13 Lab ID: MOIL#2

Instrument: FID3A.I Lab File Name: 0801a017.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil(C24-C38)	4560003	483.5	500	-3.3
AK103 (C25-C36)	3882687	611.5	500	22.3
n-Triacontane	662709	43.4	45	-3.6

* Surrogate areas are subtracted from range areas

<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a017.d ARI ID: MOIL#2
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 17:13
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	29752	1
C8	1.432	-0.004	1346	758	DIESEL (C12-C24)	571050	46
C10	2.663	0.004	121	36	M.OIL (C24-C38)	4560003	483
C12	3.130	-0.008	1630	1177	AK-102 (C10-C25)	593970	41
C14	3.440	-0.003	589	460	AK-103 (C25-C36)	3882687	612
C16	3.693	-0.008	798	352			
C18	3.934	-0.003	2034	1338			
C20	4.163	0.003	5457	4096			
C22	4.375	-0.004	16607	17701	STODDARD (C8-C12)	29752	2
C24	4.592	0.000	29727	12834			
C25	4.700	0.002	34366	5453			
C26	4.798	-0.002	39121	6948			
C28	5.001	-0.006	50931	55222			
C32	5.426	0.000	58956	8239			
C34	5.633	0.002	68032	51581			
Filter Peak	6.206	0.001	37041	16553			
C36	5.834	0.003	64789.0	38441	o-Terph Surrogate Rec = 1.3%		(10733)
C38	6.034	-0.001	50474.0	12054	Triacon Surrogate Rec = 96.4%		(662709)
C40	6.286	0.000	30444	8403			
o-terph	4.006	-0.008	20033	10733	JET-A (C10-C18)	57274	5
Triacon Surr	5.216	-0.009	748392	662709			

JR 08/02/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

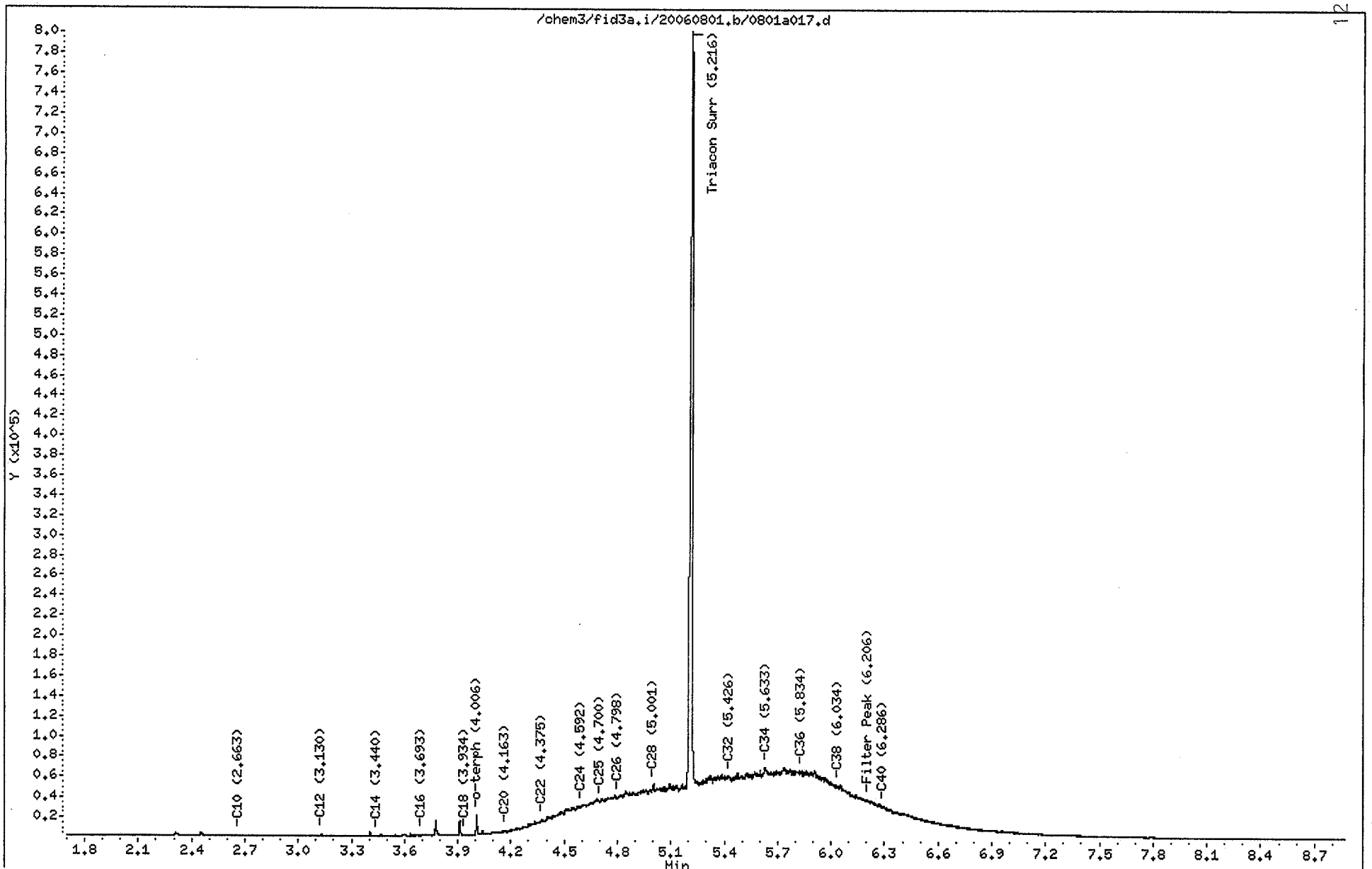
Data File: /chem3/fid3a.i/20060801.b/0801a017.d
Date : 01-AUG-2006 17:13
Client ID:
Sample Info: MOIL#2

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1210



7a

DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006 Project: T4 EARLY ACTION

CCal Date: 01-AUG-2006 SDG No.: JQ35

Analysis Time: 20:03 Lab ID: DIESEL#3

Instrument: FID3A.I Lab File Name: 0801a028.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	3219454	260.2	250	4.1
AK102 (C10-C25)	3794426	261.5	250	4.6
Terphenyl	869763	47.8	45	6.2

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a028.d
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 08/02/2006
Macro: 21-JUN-2006
ARI ID: DIESEL#3
Client ID:
Injection: 01-AUG-2006 20:03
Dilution Factor: 1

Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.275	0.025	10990	15233	GAS (Tol-C12)	761618	38
C8	1.437	0.001	2505	3379	DIESEL (C12-C24)	3219454	260
C10	2.657	-0.002	4714	2997	M.OIL (C24-C38)	156194	17
C12	3.141	0.003	135613	59572	AK-102 (C10-C25)	3794426	261
C14	3.444	0.001	181298	83990	AK-103 (C25-C36)	132324	21
C16	3.699	-0.002	209677	99356			
C18	3.929	-0.008	158186	82197			
C20	4.155	-0.006	34109	17373			
C22	4.382	0.003	12854	4466	STODDARD (C8-C12)	727975	48
C24	4.596	0.004	5942	4855			
C25	4.698	0.000	4295	4784			
C26	4.801	0.001	2583	2132			
C28	4.998	-0.009	11668	8684			
C32	5.412	-0.014	900	858			
C34	5.623	-0.008	7577	5549			
Filter Peak	6.207	0.001	1334	421			
C36	5.829	-0.002	1242.0	1175	o-Terph Surrogate Rec = 106.2%		(869763)
C38	6.039	0.004	1369.0	671	Triacon Surrogate Rec = 0.1%		(1005)
C40	6.289	0.003	1257	669			
o-terph	4.006	-0.008	1729815	869763	JET-A (C10-C18)	2919942	252
Triacon Surr	5.231	0.007	1024	1005			

08/02/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

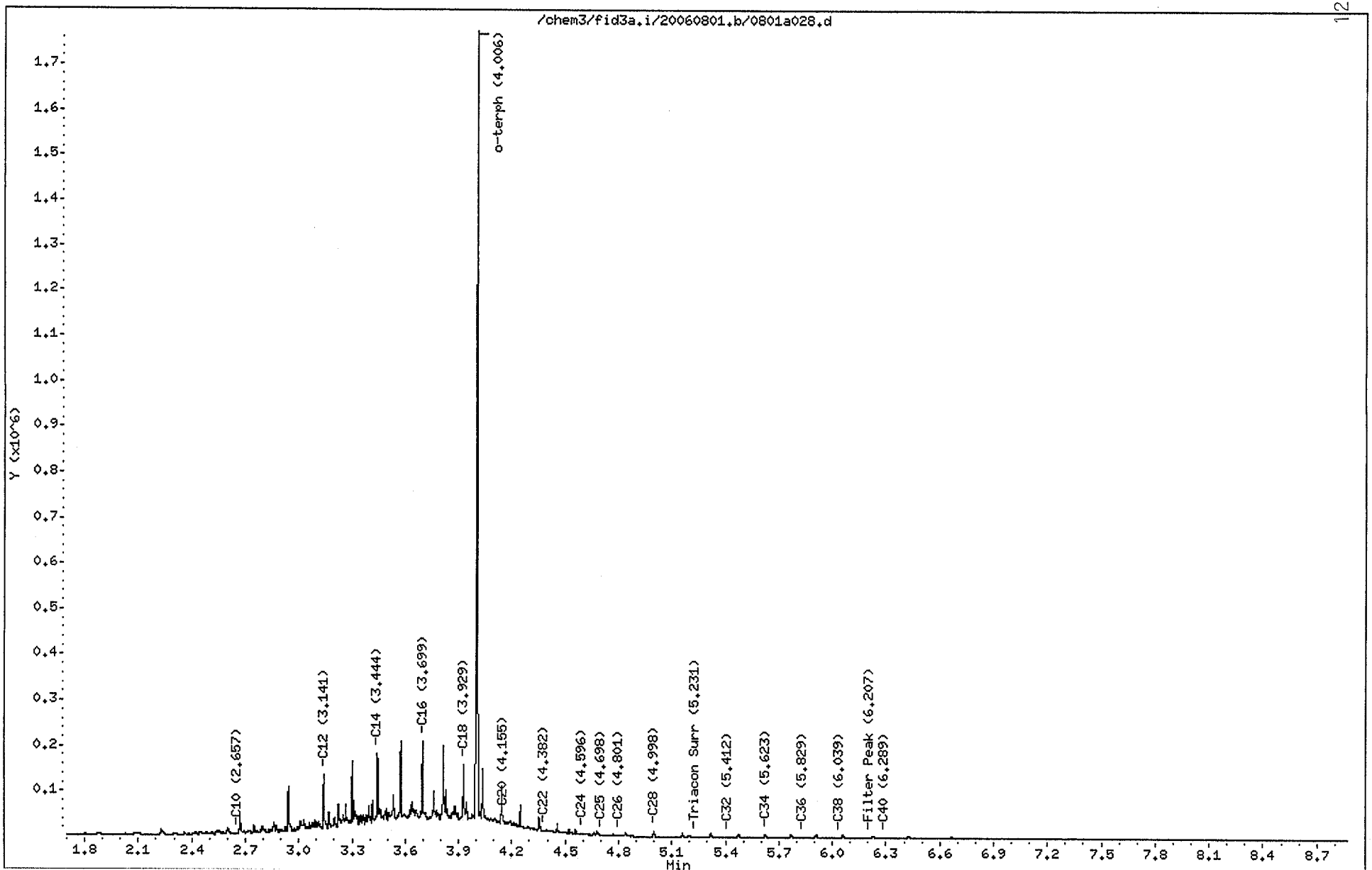
Data File: /chem3/fid3a.i/20060801.b/0801a028.d
Date : 01-AUG-2006 20:03
Client ID:
Sample Info: DIESEL#3

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1213



7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006 Project: T4 EARLY ACTION

CCal Date: 01-AUG-2006 SDG No.: JQ35

Analysis Time: 20:19 Lab ID: MOIL#3

Instrument: FID3A.I Lab File Name: 0801a029.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil(C24-C38)	4679551	496.2	500	-0.8	
AK103 (C25-C36)	3975709	626.2	500	25.2	<-
n-Triacontane	673674	44.1	45	-2.0	

* Surrogate areas are subtracted from range areas

<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a029.d ARI ID: MOIL#3
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 20:19
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	52459	3
C8	1.446	0.010	1509	1851	DIESEL (C12-C24)	650121	53
C10	2.660	0.001	307	127	M.OIL (C24-C38)	4679551	496
C12	3.130	-0.008	2007	1575	AK-102 (C10-C25)	681093	47
C14	3.446	0.003	782	217	AK-103 (C25-C36)	3975709	626
C16	3.699	-0.002	1043	370			
C18	3.930	-0.007	2359	1662			
C20	4.157	-0.004	5811	5506			
C22	4.378	-0.001	15775	6932	STODDARD (C8-C12)	52459	3
C24	4.590	-0.001	29832	5924			
C25	4.700	0.003	37893	24152			
C26	4.801	0.001	40595	14376			
C28	5.004	-0.003	48715	21745			
C32	5.423	-0.003	62960	28411			
C34	5.633	0.002	67845	36072			
Filter Peak	6.211	0.005	35194	6208			
C36	5.832	0.001	67630.0	32922	o-Terph Surrogate Rec = 0.2%		(1480)
C38	6.033	-0.002	52924.0	21840	Triacon Surrogate Rec = 98.0%		(673674)
C40	6.286	0.000	30747	9024			
o-terph	4.021	0.006	3047	1480	JET-A (C10-C18)	76549	7
Triacon Surr	5.212	-0.012	744962	673674			

JR 08/02/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

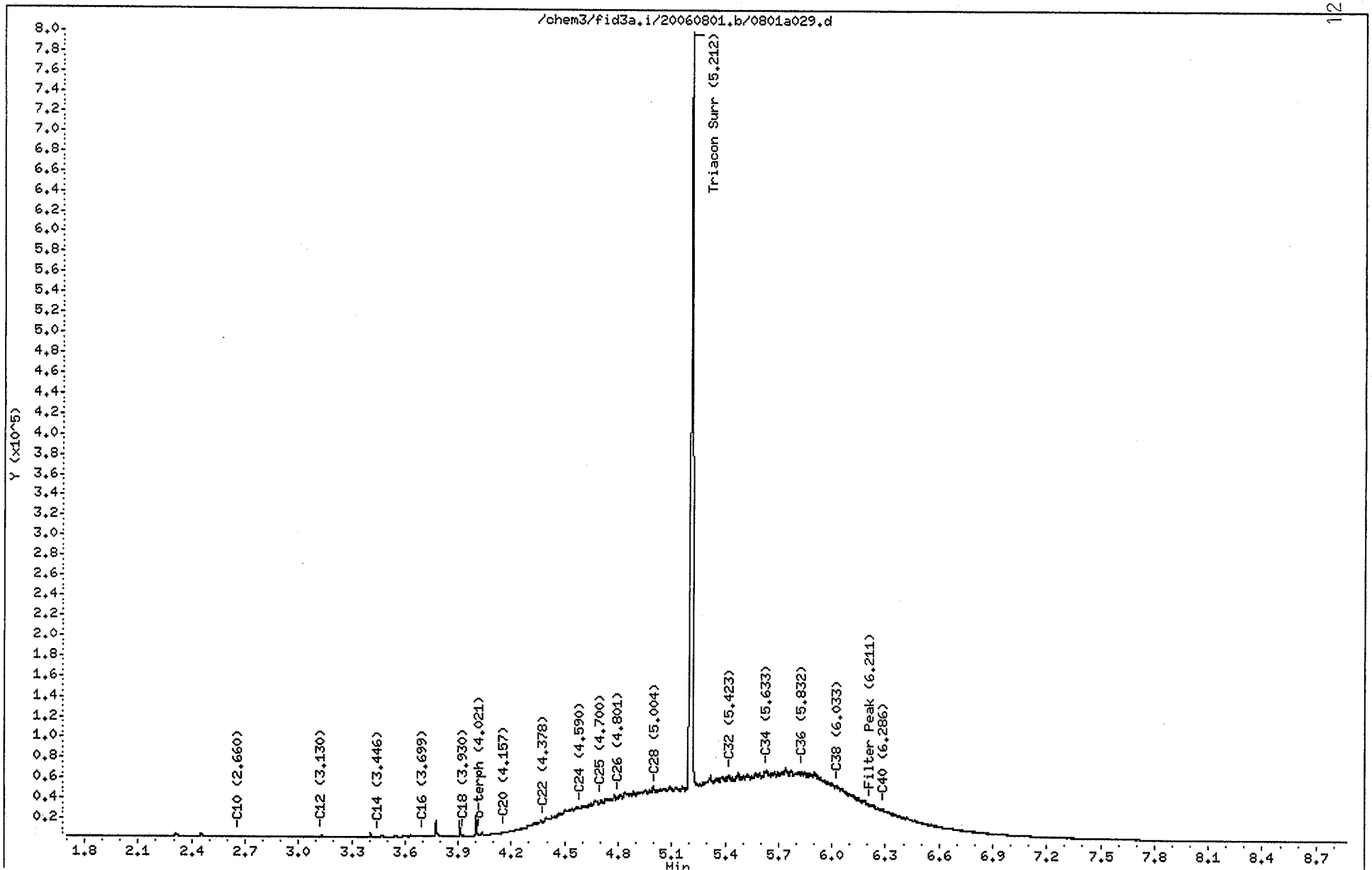
Data File: /chem3/fid3a.i/20060801.b/0801a029.d
Date : 01-AUG-2006 20:19
Client ID:
Sample Info: MOIL#3

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1216



7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006 Project: T4 EARLY ACTION

CCal Date: 01-AUG-2006 SDG No.: JQ35

Analysis Time: 22:23 Lab ID: DIESEL#4

Instrument: FID3A.I Lab File Name: 0801a037.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	3307639	267.3	250	6.9
AK102 (C10-C25)	3885060	267.7	250	7.1
Terphenyl	893939	49.1	45	9.2

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a037.d
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 08/02/2006
Macro: 21-JUN-2006
ARI ID: DIESEL#4
Client ID:
Injection: 01-AUG-2006 22:23
Dilution Factor: 1

Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.272	0.021	11312	16046	GAS (Tol-C12)	763830	38
C8	1.433	-0.004	2375	3319	DIESEL (C12-C24)	3307639	267
C10	2.657	-0.002	4691	3008	M.OIL (C24-C38)	128854	14
C12	3.141	0.003	141732	60387	AK-102 (C10-C25)	3885060	268
C14	3.444	0.001	193061	86125	AK-103 (C25-C36)	114079	18
C16	3.699	-0.002	220732	101658			
C18	3.945	0.008	78139	66348			
C20	4.163	0.003	29891	7679			
C22	4.377	-0.001	12874	3816	STODDARD (C8-C12)	729157	49
C24	4.593	0.001	5612	781			
C25	4.715	0.018	3454	679			
C26	4.805	0.005	2359	1789			
C28	5.000	-0.007	11671	7413			
C32	5.421	-0.005	525	204			
C34	5.624	-0.007	7411	4719			
Filter Peak	6.200	-0.006	827	1149			
C36	5.835	0.004	797.0	915	o-Terph Surrogate Rec = 109.2%		(893939)
C38	6.038	0.003	847.0	216	Triacon Surrogate Rec = 0.1%		(428)
C40	6.283	-0.003	813	647			
o-terph	4.006	-0.009	1672997	893939	JET-A (C10-C18)	3001214	259
Triacon Surr	5.232	0.007	720	428			

JR 08/02/06

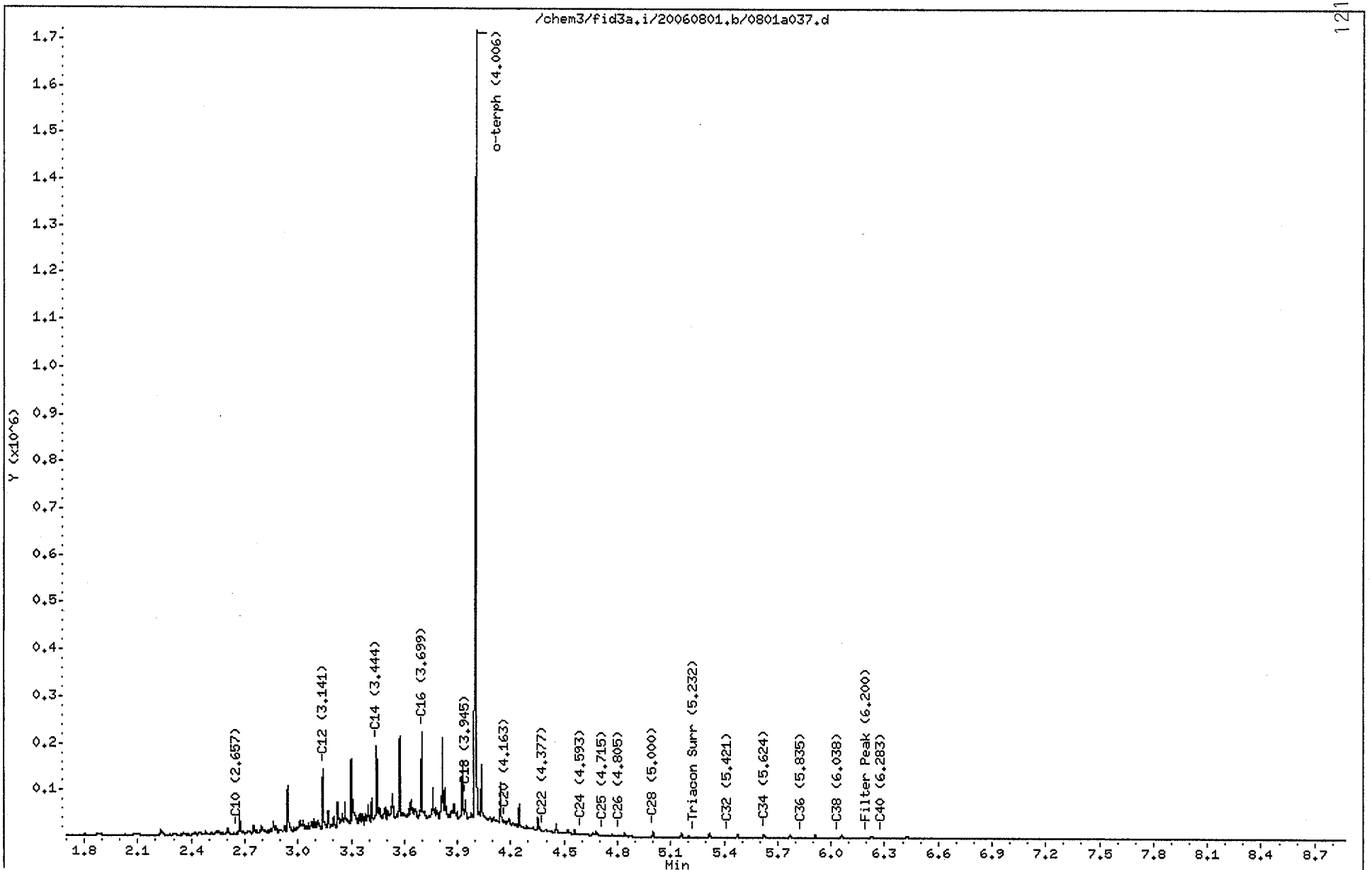
Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a037.d
Date : 01-AUG-2006 22:23
Client ID:
Sample Info: DIESEL#4

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1



7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006 Project: T4 EARLY ACTION

CCal Date: 01-AUG-2006 SDG No.: JQ35

Analysis Time: 22:38 Lab ID: MOIL#4

Instrument: FID3A.I Lab File Name: 0801a038.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil(C24-C38)	4633783	491.3	500	-1.7
AK103 (C25-C36)	3945230	621.4	500	24.3
n-Triacontane	671726	44.0	45	-2.3

* Surrogate areas are subtracted from range areas

<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a038.d
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 08/02/2006
Macro: 21-JUN-2006

ARI ID: MOIL#4
Client ID:
Injection: 01-AUG-2006 22:38

Dilution Factor: 1

Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	54105	3
C8	1.438	0.001	1631	2213	DIESEL (C12-C24)	632909	51
C10	2.661	0.003	342	196	M.OIL (C24-C38)	4633783	491
C12	3.131	-0.007	2057	1687	AK-102 (C10-C25)	658725	45
C14	3.439	-0.004	861	747	AK-103 (C25-C36)	3945230	621
C16	3.699	-0.002	1056	231			
C18	3.943	0.006	2194	2743			
C20	4.166	0.005	5281	1355			
C22	4.380	0.001	15387	1837	STODDARD (C8-C12)	54105	4
C24	4.596	0.004	31029	12421			
C25	4.701	0.003	37163	24484			
C26	4.801	0.001	39330	12457			
C28	5.014	0.007	47911	44826			
C32	5.424	-0.002	62023	43755			
C34	5.632	0.000	72362	46728			
Filter Peak	6.204	-0.002	38163	14092			
C36	5.831	0.000	67201.0	22531	o-Terph Surrogate Rec = 1.6%		(13211)
C38	6.037	0.002	52927.0	17678	Triacon Surrogate Rec = 97.7%		(671726)
C40	6.286	0.000	31145	6756			
o-terph	3.999	-0.015	21039	13211	JET-A (C10-C18)	76491	7
Triacon Surr	5.214	-0.010	777301	671726			

JR 08/02/06

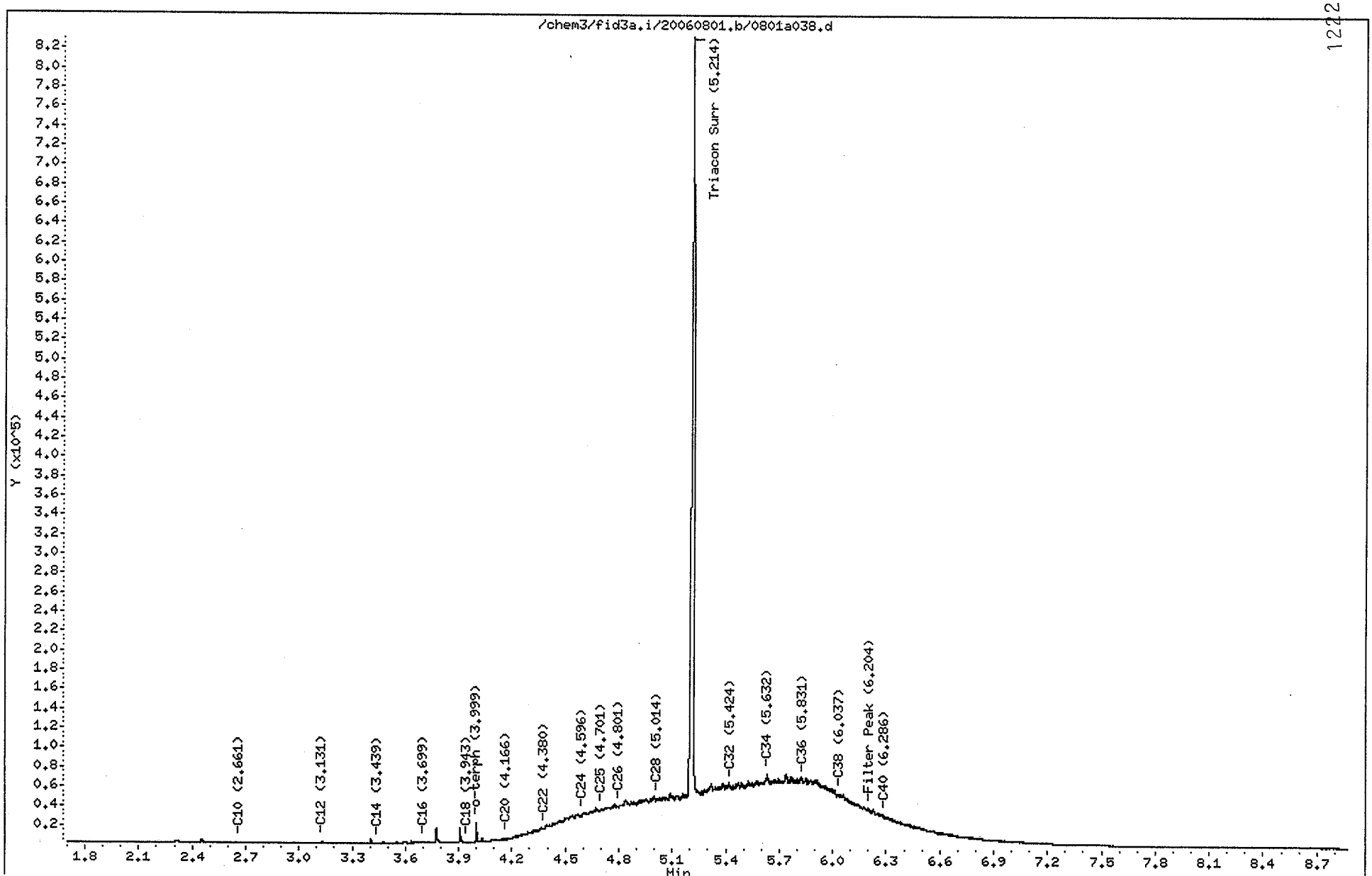
Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a038.d
Date : 01-AUG-2006 22:38
Client ID:
Sample Info: MOIL#4

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25



NWTPH-Dx Analysis
QC Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

PROJECT: T4 EARLY ACTION, 050332-01

ARI JOB NO: JQ35

prepared
by

Analytical Resources, Inc.

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a006.d ARI ID: JQ53MBS1
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 14:21
Operator: JR
Report Date: 08/03/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.244	-0.006	31727	40016	GAS (Tol-C12)	211750	11
C8	1.436	0.000	2192	2948	DIESEL (C12-C24)	64626	5
C10	2.663	0.004	630	786	M.OIL (C24-C38)	89755	10
C12	3.134	-0.004	740	847	AK-102 (C10-C25)	83269	6
C14	3.430	-0.013	728	1323	AK-103 (C25-C36)	73712	12
C16	3.697	-0.004	771	606			
C18	3.934	-0.003	735	603			
C20	4.163	0.003	1104	862			
C22	4.374	-0.004	1173	977	STODDARD (C8-C12)	70631	5
C24	4.593	0.001	1432	593			
C25	4.695	-0.003	3126	3519			
C26	4.800	0.000	1317	287			
C28	5.003	-0.004	1414	2279			
C32	5.415	-0.011	1941	4460			
C34	5.628	-0.003	1218	1604			
Filter Peak	6.205	-0.001	1146	635			
C36	5.837	0.006	1095.0	1117	o-Terph Surrogate Rec = 70.6%		(577944)
C38	6.034	-0.001	1211.0	676	Triacon Surrogate Rec = 76.1%		(522991)
C40	6.286	0.001	1038	453			
o-terph	4.008	-0.006	1256288	577944	JET-A (C10-C18)	45367	4
Triacon Surr	5.210	-0.015	754601	522991			

JR 08/03/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a006.d

Date : 01-AUG-2006 14:21

Client ID:

Sample Info: JQ53MBS1

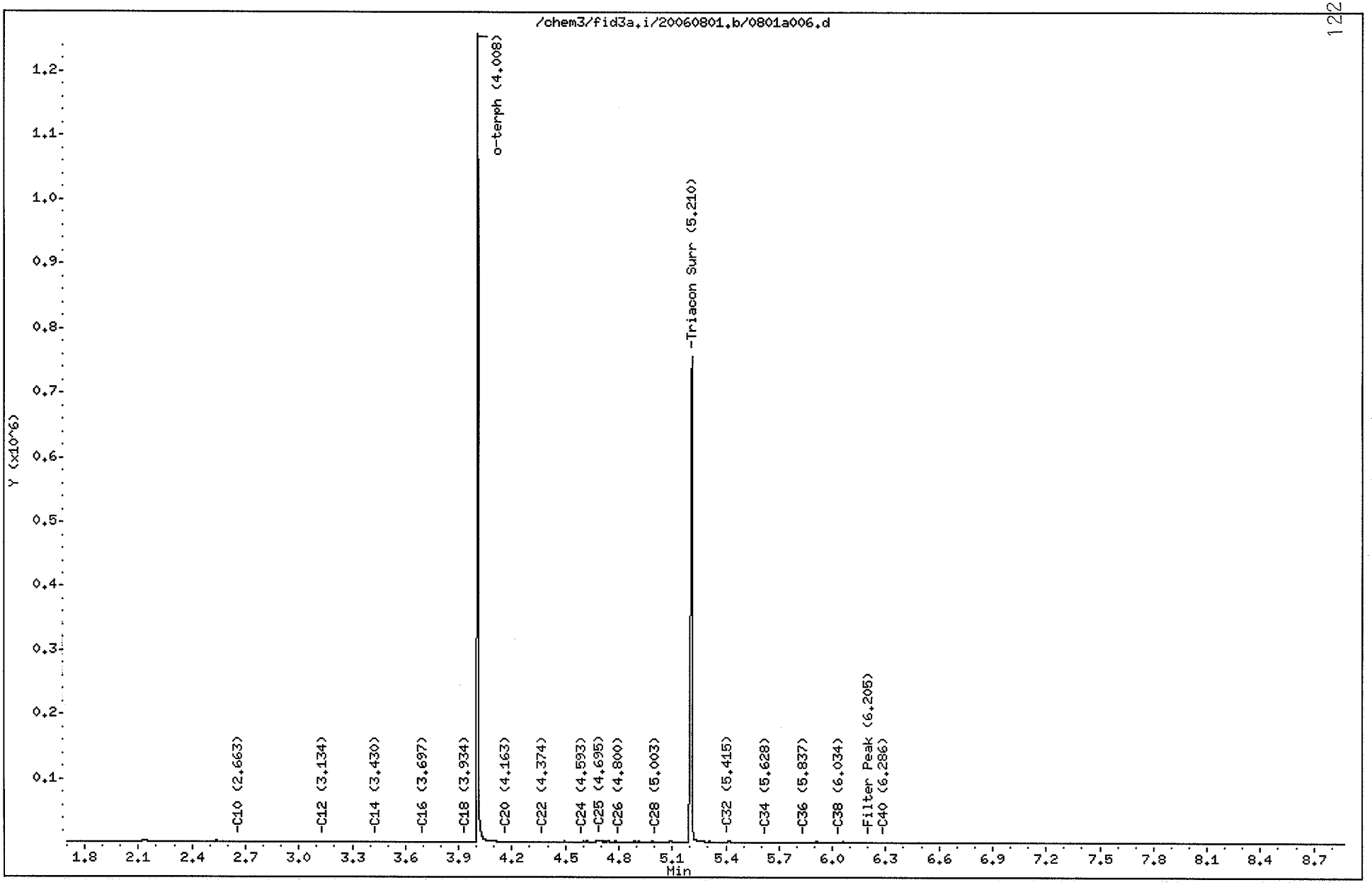
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1225



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a034.d ARI ID: JQ35PMS
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 21:36
Operator: JR
Report Date: 08/02/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.259	0.009	34417	36765	GAS (Tol-C12)	2755625	138
C8	1.437	0.001	17892	14761	DIESEL (C12-C24)	14550429	1176
C10	2.654	-0.005	17137	9096	M.OIL (C24-C38)	1523499	162
C12	3.140	0.002	519205	242527	AK-102 (C10-C25)	16725539	1153
C14	3.444	0.001	807928	443412	AK-103 (C25-C36)	1425571	225
C16	3.703	0.002	798049	564520			
C18	3.935	-0.002	530168	433340			
C20	4.151	-0.009	388458	377756			
C22	4.381	0.002	74483	16251	STODDARD (C8-C12)	2607359	174
C24	4.589	-0.003	36536	12971			
C25	4.697	-0.001	26571	5812			
C26	4.798	-0.002	22884	17423			
C28	5.004	-0.003	52796	51753			
C32	5.434	0.008	26186	27946			
C34	5.625	-0.007	12697	9954			
Filter Peak	6.200	-0.005	3632	1504			
C36	5.832	0.001	9030.0	4609	o-Terph Surrogate Rec = 77.8%		(636923)
C38	6.036	0.001	5737.0	2571	Triacon Surrogate Rec = 80.4%		(553057)
C40	6.288	0.002	2973	2762			
o-terph	4.008	-0.006	1062991	636923	JET-A (C10-C18)	12335513	1065
Triacon Surr	5.208	-0.016	730624	553057			

JR 08/03/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a034.d

Date : 01-AUG-2006 21:36

Client ID:

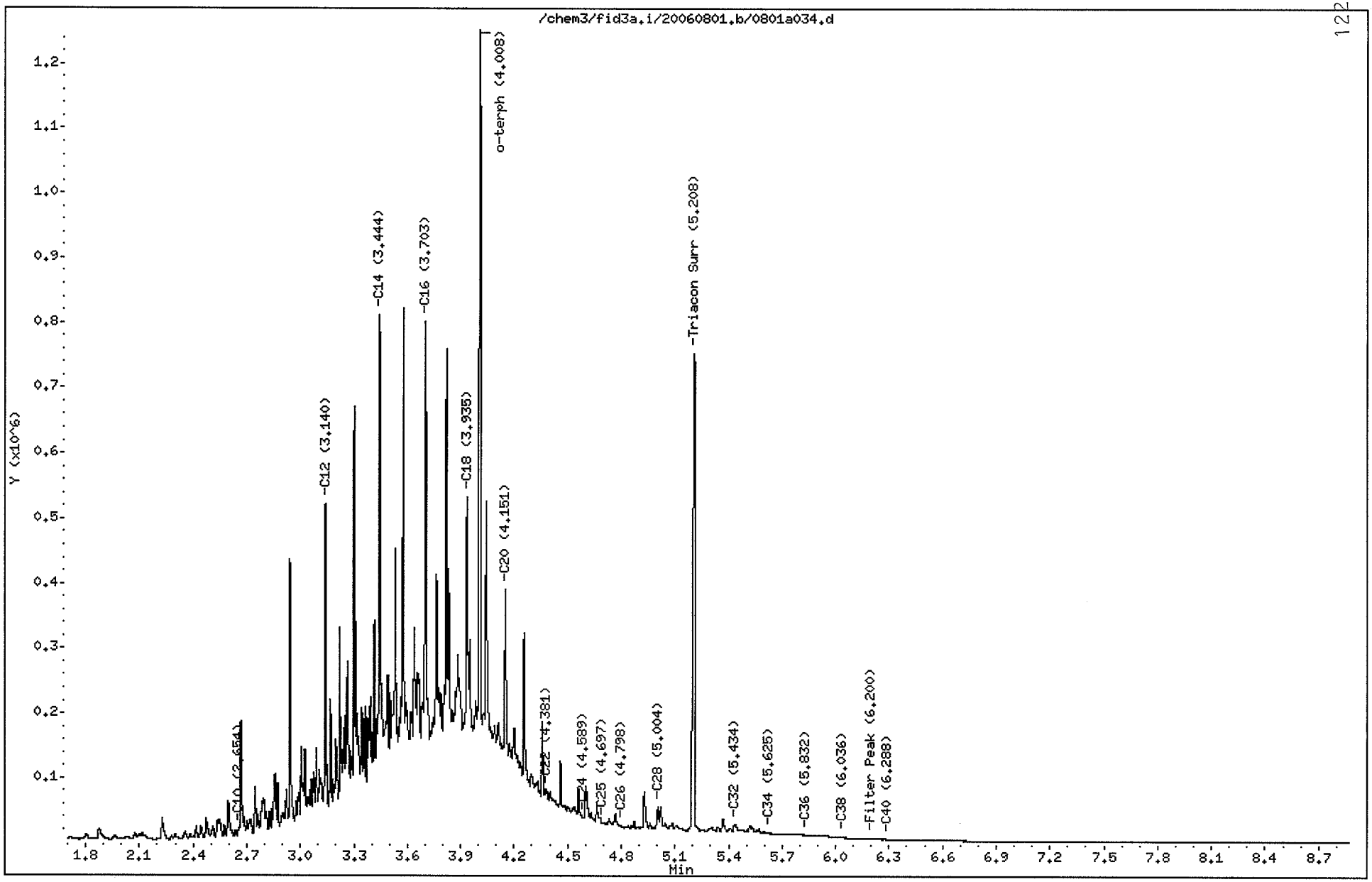
Sample Info: JQ35PMS

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a035.d
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 08/02/2006
Macro: 21-JUN-2006
ARI ID: JQ35PMSD
Client ID:
Injection: 01-AUG-2006 21:52
Dilution Factor: 1

Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.255	0.004	26420	31453	GAS (Tol-C12)	2553860	128
C8	1.430	-0.006	39694	31481	DIESEL (C12-C24)	14172558	1145
C10	2.654	-0.005	15300	7815	M.OIL (C24-C38)	2217463	235
C12	3.140	0.002	508618	227630	AK-102 (C10-C25)	16173016	1114
C14	3.445	0.002	765052	407311	AK-103 (C25-C36)	2120385	334
C16	3.702	0.001	749492	440512			
C18	3.934	-0.003	508155	392731			
C20	4.151	-0.010	368133	329986			
C22	4.374	-0.004	99555	64565	STODDARD (C8-C12)	2408674	160
C24	4.597	0.005	144584	76899			
C25	4.699	0.001	30462	15684			
C26	4.793	-0.007	30969	32424			
C28	5.008	0.001	93172	92118			
C32	5.432	0.006	58002	46302			
C34	5.638	0.007	14692	8020			
Filter Peak	6.202	-0.004	4379	2694			
C36	5.831	0.000	11817.0	3952	o-Terph Surrogate Rec = 71.4%		(584596)
C38	6.034	-0.001	6517.0	3823	Triacon Surrogate Rec = 74.6%		(512932)
C40	6.284	-0.002	3641	1137			
o-terph	4.007	-0.008	998341	584596	JET-A (C10-C18)	11708682	1011
Triacon Surr	5.207	-0.018	702865	512932			

JR 08/03/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a035.d

Date : 01-AUG-2006 21:52

Client ID:

Sample Info: JQ35PMSD

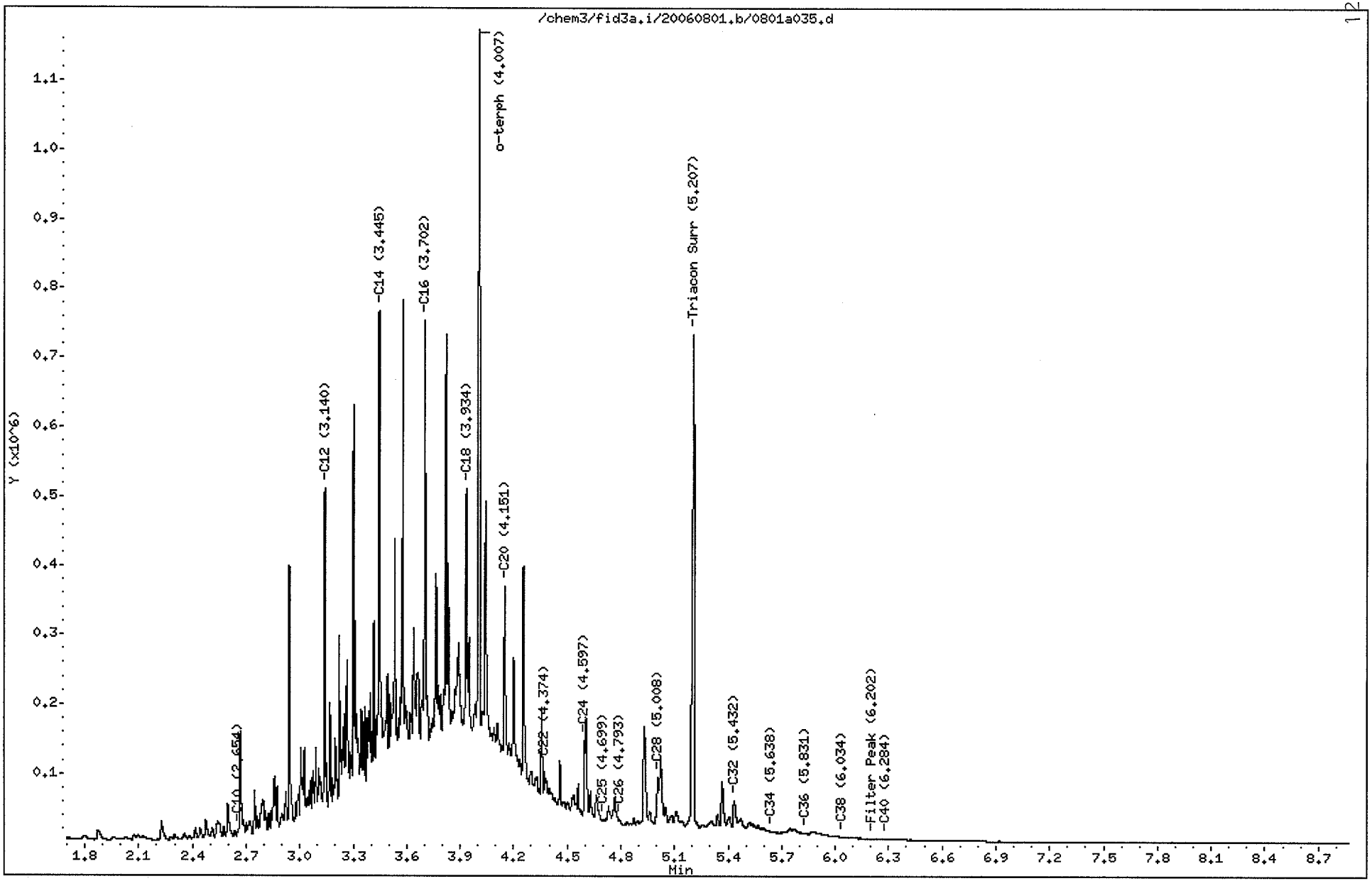
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1229



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060801.b/0801a007.d ARI ID: JQ53LCSS1
Method: /chem3/fid3a.i/20060801.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 01-AUG-2006 14:36
Operator: JR
Report Date: 08/03/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.256	0.005	33141	35510	GAS (Tol-C12)	2851445	143
C8	1.441	0.005	3737	5820	DIESEL (C12-C24)	13307167	1075
C10	2.654	-0.004	19111	10142	M.OIL (C24-C38)	305835	32
C12	3.139	0.001	520358	243346	AK-102 (C10-C25)	15535394	1071
C14	3.444	0.001	769552	344275	AK-103 (C25-C36)	281231	44
C16	3.704	0.003	771675	464137			
C18	3.941	0.004	499888	402856			
C20	4.161	0.001	382177	329031			
C22	4.373	-0.006	152824	98971	STODDARD (C8-C12)	2697961	180
C24	4.580	-0.012	67456	66016			
C25	4.700	0.002	17341	12593			
C26	4.802	0.002	9274	4278			
C28	5.007	0.000	7386	7914			
C32	5.415	-0.011	2582	3715			
C34	5.630	-0.001	1199	1554			
Filter Peak	6.207	0.001	828	469			
C36	5.833	0.002	921.0	236	o-Terph Surrogate Rec = 73.4%		(600922)
C38	6.028	-0.007	944.0	619	Triacon Surrogate Rec = 78.3%		(538574)
C40	6.283	-0.002	741	496			
o-terph	4.015	0.001	1044460	600922	JET-A (C10-C18)	11783664	1018
Triacon Surr	5.214	-0.011	734565	538574			

08/03/06

Range Times: NW Diesel(3.138 - 4.592) AK102(2.66 - 4.70) Jet A(2.66 - 3.94)
NW M.Oil(4.59 - 6.03) AK103(4.70 - 5.83) OR Diesel(2.66 - 5.01)

Data File: /chem3/fid3a.i/20060801.b/0801a007.d

Date : 01-AUG-2006 14:36

Client ID:

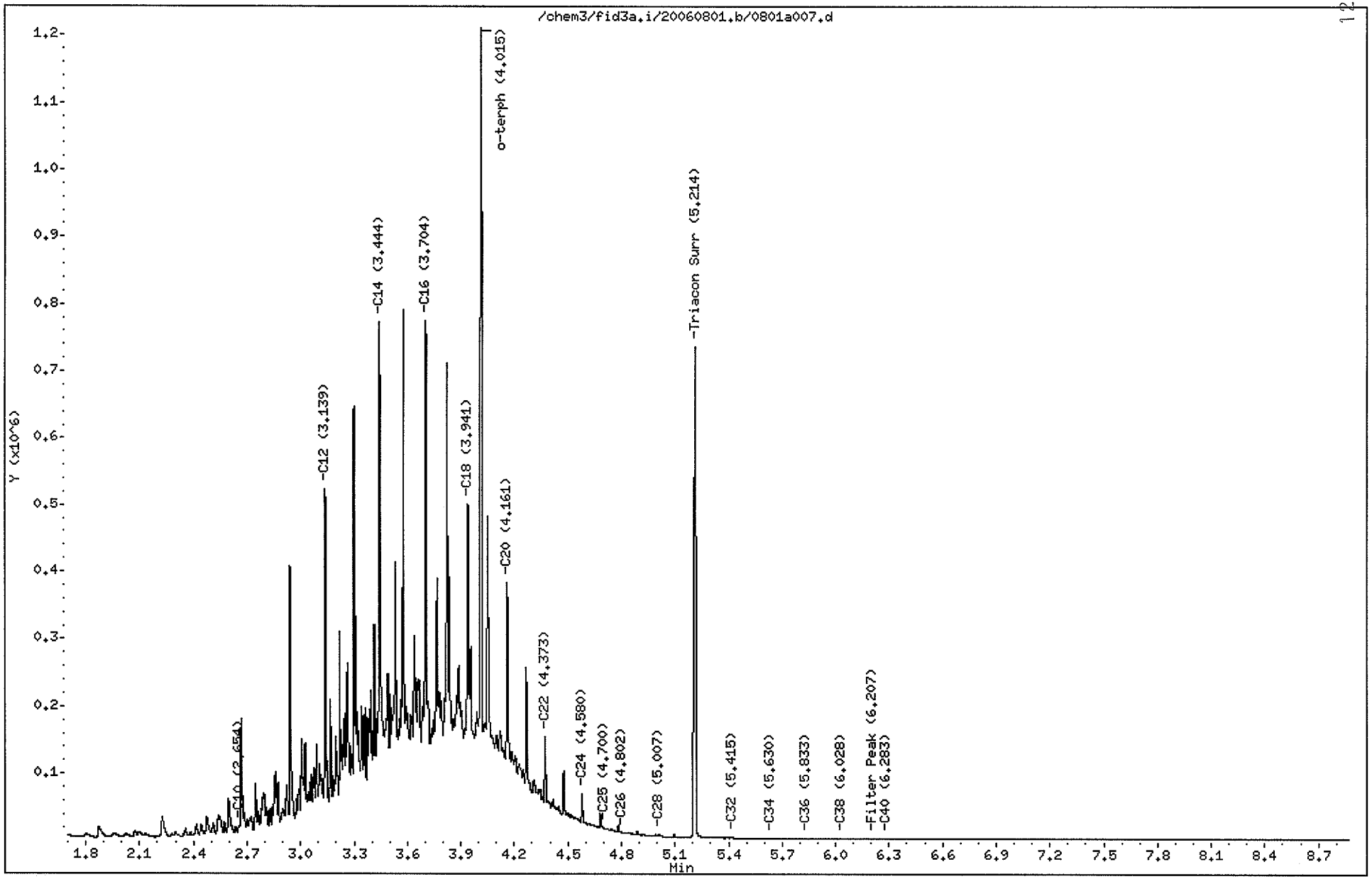
Sample Info: JQ53LCSS1

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



NWTPH-Dx Analysis
Extraction Bench Sheets and Run Logs

prepared
for

ANCHOR ENVIRONMENTAL

PROJECT: T4 EARLY ACTION, 050332-01

ARI JOB NO: JQ35

prepared
by

Analytical Resources, Inc.

QA LIMs # _____
EXT-LIMs # _____
Bid # TD072SA-01

NWTPHD/AK102/103/NWHCID Soil
(3550B) Microtip X
(3545A) ASE _____
Med.Shakeout _____
Acid/Silica Gel Clean _____
KD _____
Turbovap X

Client Name: Lower Elwha Klallam Tribe
Anchor Environmental

ARI Job No(s): JQ53 / JQ35

Extraction Requirements (ARI Lab ID)	Client Sample ID	Amount Extracted (g)	Volume of Solvent Added (HCID)	KD	Final Effective Volume	Volume To Lab	Time Extracted 14:40 Comments
MB: JQ53 mbs	7/28/06	10.00			1mL	1mL	
SB: sbs	↓	10.00					
A	checked	10.02					
B		10.04					
C		10.00					
D		10.00					
JQ35 A		10.02			↓		
B		10.00			5mL		See notes
C		10.04			1mL		
D		10.04					
E		10.04					
F		10.04					
G		10.00					
H		10.00					
I		10.04					
J		10.04					
K		10.00					
L		10.04					
M		10.06					
N		10.00					
O		10.04					
P		10:00					
PMS		10.04					
PMSD	↓	10.00			↓	↓	
Date/Analyst:		7/28/06 PC					

MACRO: 7/28/06

Surrogate Amount: 100 µL
Concentration: 450 µg/mL
Added By: PC /Spk. Witness GAH
ID: 1412-4

Spike Amount: 100 µL
Concentration: 15000 µg/mL
Added By: PC /Spk. Witness GAH
ID: 1407-3

Neutral glasswool ID: 3/17 #6
(DCM) Solvent Lot ID: I2978
Conc. H2So4 ID: N/A
Silica Gel ID: N/A
Na2So4 ID: 7/20 #3

ANALYTICAL
RESOURCES
INCORPORATED

ANALYST NOTES - Organic Extractions

ARI Job No: JQ35 Client Name: Anchor Environmental

Parameter: TPHD Client Project: T4 Early Action

3545 SOP Number(s) ☐ No Anomalies

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

JQ35B - very dark extract. Took to 5mL FEV and gave analyst 1mL. SP 5/1/06

Extraction

Analyst: _____ Date Extracted: _____

See Reverse Side for Additional Information

3056F

Rev. 5
2/15/01

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

RI Project ID: JQ35 Client ID: T4 Early Action

RI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

arameter(s): Diesel, mod, o-terphenyl

strument: FID: 3A ECD: N/A

ates: Curve: Diesel mod Analysis Start: 08/01/06

drin/DDT Breakdown <15%? YES / NO / NA LCS/LCSD Recovery in Control? YES / NO

al Meets RF & %RSD Criteria? YES / NO MS/MSD Recovery in Control? YES / NO

Cal Meets RF & %RSD Criteria YES / NO Surrogate Recovery in Control? YES / NO

ernal Standard Meets Criteria? YES / NO NA Special Analysis Criteria Met? YES / NO / NA

ethod Blank in Control? YES / NO

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

Sample B (5x) Surr Coelutes NR.

ditional Details on Reverse: Yes / No

alyst Signature: _____ **Date:** 08/03/06

viewer's Signature: _____ **Date:** 8/3/06

Analytical Resources Inc.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 08/01/06 Analysis: TPHd Analyst: JM

GC Program: TPH Column No: 167375 Column Type: RTX-1

Instrument Tune (.U or .CT.): N/A EM Voltage: N/A

Calibration File: N/A Curve Date: Diesel/moil 07/15/06

IS/SS

N/A

Ical/Ccal

RT
IB
Diesel
moil

LCS/ICV

N/A

	Time	Filename	LabID	ClientId	DF
1	1303	0801a001.d	DCM RINSE		1
2	1318	0801a002.d	RT		1
3	1334	0801a003.d	IB		1
4	1350	0801a004.d	DIESEL#1		1
5	1405	0801a005.d	MOIL#1		1
6	1421	0801a006.d	JQ53MBS1		1
7	1436	0801a007.d	JQ53LCSS1		1
8	1452	0801a008.d	JQ53A		1
9	1508	0801a009.d	JQ53B		1
10	1523	0801a010.d	JQ53C		1
11	1539	0801a011.d	JQ53D		1
12	1554	0801a012.d	JQ35A		5
13	1610	0801a013.d	JQ35B		5
14	1626	0801a014.d	JQ35C		5
15	1641	0801a015.d	RINSE		1
16	1657	0801a016.d	DIESEL#2		1
17	1713	0801a017.d	MOIL#2		1
18	1728	0801a018.d	JQ35D		5
19	1744	0801a019.d	JQ35E		5
20	1759	0801a020.d	JQ35F		1
21	1815	0801a021.d	JQ35G		1
22	1830	0801a022.d	JQ35H		5

	Time	Filename	LabID	ClientId	DF
3	1846	0801a023.d	JQ35I		5
4	1901	0801a024,d	JQ35J		5
5	1917	0801a025.d	JQ35K		5
6	1932	0801a026.d	JQ35L		1
7	1948	0801a027.d	RINSE		1
8	2003	0801a028.d	DIESEL#3		1
9	2019	0801a029.d	MOIL#3		1
0	2034	0801a030.d	JQ35M		5
1	2050	0801a031.d	JQ35N		1
2	2106	0801a032.d	JQ35O		5
3	2121	0801a033.d	JQ35P		1
4	2136	0801a034.d	JQ35PMS		1
5	2152	0801a035.d	JQ35PMSD		1
6	2207	0801a036.d	RINSE		1
7	2223	0801a037.d	DIESEL#4		1
8	2238	0801a038.d	MOIL#4		1

Maintenance / Comments

JM JM JM 08/01/06

cals pass

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

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

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: JQ35
Matrix: Sediment — Project: T4 EARLY ACTION
Date Received: 07/21/06 — 050332-01

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
06-12956-JQ35A	T4-S3-02-C	5.33 g	1.00 mL	D	07/28/06
06-12957-JQ35B	T4-S3-02-D	5.80 g	5.00 mL	D	07/28/06
06-12958-JQ35C	T4-S3-02-E	6.11 g	1.00 mL	D	07/28/06
06-12959-JQ35D	T4-S3-02-F	5.53 g	1.00 mL	D	07/28/06
06-12960-JQ35E	T4-S3-03-B	5.60 g	1.00 mL	D	07/28/06
06-12961-JQ35F	T4-S3-03-C	5.96 g	1.00 mL	D	07/28/06
06-12962-JQ35G	T4-S3-03-D	6.72 g	1.00 mL	D	07/28/06
06-12963-JQ35H	T4-S3-05-E	5.23 g	1.00 mL	D	07/28/06
06-12964-JQ35I	T4-S3-05-F	5.65 g	1.00 mL	D	07/28/06
06-12965-JQ35J	T4-S3-05-G	5.73 g	1.00 mL	D	07/28/06
06-12966-JQ35K	T4-S3-05-H	5.75 g	1.00 mL	D	07/28/06
06-12967-JQ35L	T4-S3-05-J	8.01 g	1.00 mL	D	07/28/06
06-12968-JQ35M	T4-S3-06-A	5.23 g	1.00 mL	D	07/28/06
06-12969-JQ35N	T4-S3-06-B	7.68 g	1.00 mL	D	07/28/06
06-12970-JQ35O	T4-S3-08-B	7.04 g	1.00 mL	D	07/28/06
06-12971-072806MB1	Method Blank	10.0 g	1.00 mL	-	07/28/06
06-12971-072806LCS1	Lab Control	10.0 g	1.00 mL	-	07/28/06
06-12971-JQ35P	T4-S3-08-C	8.33 g	1.00 mL	D	07/28/06
06-12971-JQ35PMS	T4-S3-08-C	8.36 g	1.00 mL	D	07/28/06
06-12971-JQ35PMSD	T4-S3-08-C	8.33 g	1.00 mL	D	07/28/06

Basis: D=Dry Weight W=As Received

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

RI Project ID: AK102 Diesel curve Client ID: A.R.I

RI SOP: 403S(PCB) 405S(Herbicides) ~~407S(TPH-D)~~ 409S(HCID) 423S(Pesticides) Other

arameter(s): A/S Diesel, Diesel, AK102, o-terphenyl

strument: FID: 3A ECD: N/A

ates: Curve: Diesel 07/15/06 Analysis Start: 07/15/06

ndrin/DDT Breakdown <15%? YES / NO / (NA) LCS/LCSD Recovery in Control? YES / NO (NA)

al Meets RF & %RSD Criteria? (YES) / NO MS/MSD Recovery in Control? YES / NO

Cal Meets RF & %RSD Criteria (YES) / NO Surrogate Recovery in Control? YES / NO

ernal Standard Meets Criteria? YES / NO (NA) Special Analysis Criteria Met? YES / NO / (NA)

ethod Blank in Control? (YES) / NO

tail problems, corrective actions and/or other pertinent information below (use reverse side en necessary): all points w/in 20%.

ditional Details on Reverse: Yes / (No)

alyst Signature: JR **Date:** JR 07/18/06

iewer's Signature: [signature] **Date:** 7.18.2006

Analytical Resources Inc.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 07/15/06 Analysis: TPHd Analyst: JR

GC Program: TPH Column No: ~~R~~ 167375 Column Type: RTX-1

Instrument Tune (.U or .CT.): N/A JR 07/19/06 EM Voltage: N/A

Calibration File: N/A Curve Date: Diesel/moil/JetA 07/15/06

IS/SS	Ical/Ccal	LCS/ICV
N/A	RT	Diesel
	IB	Moil
	Diesel	
	Moil	
	AOil	
	JetA	

Time	Filename	LabID	ClientId	DF
1131	0715a001.d	RINSE		1
1147	0715a002.d	RT		1
1203	0715a003.d	IB		1
1219	0715a004.d	DIESEL		1
1313	0715a005.d	RINSE		1
1329	0715a006.d	RINSE		
1345	0715a007.d	RINSE		
1401	0715a008.d	RINSE		
1417	0715a009.d	DCM RINSE		
1433	0715a010.d	DCM RINSE		
1449	0715a011.d	RT		
1505	0715a012.d	IB		
1521	0715a013.d	G/D HCIDS		
1537	0715a014.d	50 PPM DIESEL		
1553	0715a015.d	100 PPM DIESEL		
1608	0715a016.d	250 PPM DIESEL		
1624	0715a017.d	500 PPM DIESEL		
1640	0715a018.d	1000 PPM DIESEL		
1656	0715a019.d	2500 PPM DIESEL		
1712	0715a020.d	DIESEL ICV		
1728	0715a021.d	DIESEL CVS		
1744	0715a022.d	50 PPM JET A		

Time	Filename	LabID	ClientId	DF
1759	0715a023.d	100 PPM JET A		
1815	0715a024.d	250 PPM JET A		
1831	0715a025.d	500 PPM JET A		
1847	0715a026.d	1000 PPM JET A		
1903	0715a027.d	2500 PPM JET A		
1919	0715a028.d	JET A CVS		
1935	0715a029.d	100 PPM MOIL		
1950	0715a030.d	250 PPM MOIL		
2006	0715a031.d	500 PPM MOIL		
2022	0715a032.d	1000 PPM MOIL		
2038	0715a033.d	2500 PPM MOIL		
2054	0715a034.d	5000 PPM MOIL		
2109	0715a035.d	MOIL ICV		
2125	0715a036.d	MOIL CVS		
2141	0715a037.d	100 PPM AOIL		
2157	0715a038.d	250 PPM AOIL		
2212	0715a039.d	500 PPM AOIL		
2228	0715a040.d	1000 PPM AOIL		
2244	0715a041.d	2500 PPM AOIL		
2259	0715a042.d	5000 PPM AOIL		
2315	0715a043.d	AOIL CVS		
2331	0715a044.d	RINSE		
2346	0715a045.d	DIESEL #1		

Time	Filename	LabID	ClientId	DF
0002	0715a046.d	MOIL #1		1
0018	0715a047.d	JET A #1		1
0033	0715a048.d	JO91MBS1		
0049	0715a049.d	JO91LCSS1		
0104	0715a050.d	JO91LCSDS1		
0120	0715a051.d	JO91A		
0135	0715a052.d	JO91B		
0151	0715a053.d	JO91C		
0206	0715a054.d	JP14G		2
0222	0715a055.d	JP14H		5
0237	0715a056.d	JP14L		4
0253	0715a057.d	RINSE		
0308	0715a058.d	DIESEL #2		
0323	0715a059.d	MOIL #2		
0339	0715a060.d	JET A #2		
0354	0715a061.d	JP14N		1
0410	0715a062.d	JP14O		
0425	0715a063.d	RINSE		
0440	0715a064.d	DIESEL #2		
0455	0715a065.d	MOIL #2		

JR JR JR 07/19/06

Maintenance / Comments

curves and ccals pass

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

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

RI Project ID: mo.l curve Client ID: ART

RI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

rameter(s): mo.l , n.triacontane

strument: FID: 3A ECD: N/A

ites: Curve: Mo.l 07/15/06 Analysis Start: 07/15/06

drin/DDT Breakdown <15%? YES / NO / NA

al Meets RF & %RSD Criteria? YES / NO

Cal Meets RF & %RSD Criteria YES / NO

ernal Standard Meets Criteria? YES / NO

thod Blank in Control? YES / NO

LCS/LCSD Recovery in Control? YES / NO / NA

MS/MSD Recovery in Control? YES / NO

Surrogate Recovery in Control? YES / NO

Special Analysis Criteria Met? YES / NO / NA

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

All targets < 20%

ditional Details on Reverse: Yes / No

lyst Signature: _____ **Date:** 07/18/01

iewer's Signature: _____ **Date:** 7.18.2006

Metals Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ35

prepared
by

Analytical Resources, Inc.

Cover Page

INORGANIC ANALYSIS DATA PACKAGE

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
T4-S3-02-C	JQ35A	06-12956	
T4-S3-02-CD	JQ35ADUP	06-12956	
T4-S3-02-CS	JQ35ASPK	06-12956	
T4-S3-02-D	JQ35B	06-12957	
PBS	JQ35MB1	06-12957	
LCSS	JQ35MB1SPK	06-12957	
T4-S3-02-E	JQ35C	06-12958	
T4-S3-02-F	JQ35D	06-12959	
T4-S3-03-B	JQ35E	06-12960	
T4-S3-03-C	JQ35F	06-12961	
T4-S3-03-D	JQ35G	06-12962	
T4-S3-05-E	JQ35H	06-12963	
T4-S3-05-F	JQ35I	06-12964	
T4-S3-05-G	JQ35J	06-12965	
T4-S3-05-H	JQ35K	06-12966	
T4-S3-05-J	JQ35L	06-12967	
T4-S3-06-A	JQ35M	06-12968	
T4-S3-06-B	JQ35N	06-12969	
T4-S3-08-B	JQ35O	06-12970	
T4-S3-08-C	JQ35P	06-12971	
T4-S3-02-C	JQ35RA	06-12956	R

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: _____ Name: Jenifer Bouldron

Date: 8/15/14 Title: Metals Supervisor

Cover Page

INORGANIC ANALYSIS DATA PACKAGE

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
T4-S3-02-CD	JQ35RADUP	06-12956	R
T4-S3-02-CS	JQ35RASPK	06-12956	R
PBS	JQ35RMB1	06-12956	R
LCSS	JQ35RMB1SPK	06-12956	R

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: Jenifer Bouldron Name: Jenifer Bouldron

Date: 6/8/06 Title: Metals Supervisor

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: T4-S3-02-C**
Page 1 of 1 **DUPLICATE**

Lab Sample ID: JQ35A
LIMS ID: 06-12956
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 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	212	205	3.4%	+/- 20%	
Zinc	6010B	328	355	7.9%	+/- 20%	

Reported in mg/kg-dry

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

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-02-C
MATRIX SPIKE

Lab Sample ID: JQ35A
LIMS ID: 06-12956
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 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	212	552	368	92.4%	
Zinc	6010B	328	450	91.9	133%	N

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%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**

Lab Sample ID: JQ35MB
LIMS ID: 06-12957
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 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	07/28/06	6010B	08/01/06	7439-92-1	Lead	2	2	U
3050B	07/28/06	6010B	08/01/06	**7440-66-6**	**Zinc**	0.6	**0.7**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: LAB CONTROL**

Lab Sample ID: JQ35LCS
LIMS ID: 06-12957
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 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	199	200	99.5%	
Zinc	6010B	49.4	50.0	98.8%	

Reported in mg/kg-dry

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**

Lab Sample ID: JQ35MB
LIMS ID: 06-12956
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 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	08/07/06	6010B	08/07/06	7439-92-1	Lead	2	2	U
3050B	08/07/06	6010B	08/07/06	**7440-66-6**	**Zinc**	0.6	**2.4**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: LAB CONTROL**

Lab Sample ID: JQ35LCS
LIMS ID: 06-12956
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 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	214	200	107%	
Zinc	6010B	51.3	50.0	103%	

Reported in mg/kg-dry

N-Control limit not met
Control Limits: 80-120%

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Lead	PB	ICP	IP080121	2000.0	1988.34	99.4	2000.0	1968.61	98.4	1967.64	98.4	1986.90	99.3	1996.39	99.8	1982.41	99.1
Zinc	ZN	ICP	IP080121	1000.0	981.05	98.1	1000.0	987.25	98.7	979.48	97.9	1013.17	101.3	1010.16	101.0	1002.32	100.2

1250

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

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

UNITS: ug/L

ANALYTE	EL	M	RUN	CCVTV	CCV6	%R	CCV7	%R	CCV8	%R	CCV9	%R	CCV10	%R	CCV11	%R
Lead	PB	ICP	IP080121	2000.0	2001.72	100.1	1993.81	99.7								
Zinc	ZN	ICP	IP080121	1000.0	1048.06	104.8	1014.14	101.4								

1251

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

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Lead	PB	ICP	IP080721	2000.0	1958.84	97.9	2000.0	2014.25	100.7	1985.66	99.3	2016.73	100.8	2005.01	100.3	2027.79	101.4
Zinc	ZN	ICP	IP080721	1000.0	1042.11	104.2	1000.0	1000.51	100.1	1009.59	101.0	1035.69	103.6	1032.24	103.2	1030.70	103.1

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

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

UNITS: ug/L

ANALYTE	EL	M	RUN	CCVTV	CCV6	%R	CCV7	%R	CCV8	%R	CCV9	%R	CCV10	%R	CCV11	%R
Lead	PB	ICP	IP080721	2000.0	1990.97	99.5	2022.27	101.1								
Zinc	ZN	ICP	IP080721	1000.0	1007.98	100.8	1114.19	111.4								

1253

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

CRDL Standard

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

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	IP080121	20.0	20.02	**100.1**										
Zinc	ZN	ICP	IP080121	6.0	7.40	**123.3**										

1254

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

CRDL Standard

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

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	IP080721	20.0	22.63	**113.2**	22.04	**110.2**								
Zinc	ZN	ICP	IP080721	6.0	5.80	**96.7**	8.94	**149.0**								

1255

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

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Lead	PB	ICP	IP080121	3.0	20.0	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U
Zinc	ZN	ICP	IP080121	20.0	6.0	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

UNITS:ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	C	CCB7	C	CCB8	C	CCB9	C	CCB10	C	CCB11	C
Lead	PB	ICP	IP080121	3.0	20.0	20.0	U	20.0	U								
Zinc	ZN	ICP	IP080121	20.0	6.0	6.0	U	6.0	U								

1257

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Lead	PB	ICP	IP080721	3.0	20.0	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U
Zinc	ZN	ICP	IP080721	20.0	6.0	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

UNITS:ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	C	CCB7	C	CCB8	C	CCB9	C	CCB10	C	CCB11	C
Lead	PB	ICP	IP080721	3.0	20.0	20.0	U	20.0	U								
Zinc	ZN	ICP	IP080721	20.0	6.0	6.0	U	6.0	U								

ICP Interference Check Sample

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

ICS SOURCE: I.V.

RUNID: IP080121

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	198502.0	197931.3	**99.0**						
Antimony		1000	23.7	1078.0	**107.8**						
Arsenic		1000	21.5	1031.8	**103.2**						
Barium		1000	1.2	945.7	**94.6**						
Beryllium		1000	0.0	985.4	**98.5**						
Boron			-4.3	-3.6							
Cadmium		1000	-0.9	1022.7	**102.3**						
Calcium	100000	100000	97554.2	97574.3	**97.6**						
Chromium		1000	-0.4	929.3	**92.9**						
Cobalt		1000	-1.7	963.2	**96.3**						
Copper		1000	0.4	1065.4	**106.5**						
Iron	200000	200000	192856.1	192288.7	**96.1**						
Lead		1000	16.2	962.4	**96.2**						
Magnesium	100000	100000	100051.3	99865.9	**99.9**						
Manganese		1000	-0.2	922.8	**92.3**						
Molybdenum			4.8	4.4							
Nickel		1000	-0.1	923.5	**92.4**						
Potassium			106.8	96.5							
Selenium		1000	-76.7	932.0	**93.2**						
Silicon			-23.2	-28.5							
Silver		1000	-0.5	1012.9	**101.3**						
Sodium			27.5	25.0							
Strontium			1.2	1.3							
Thallium		1000	-34.7	903.6	**90.4**						
Tin			-8.2	-8.2							
Titanium			5.5	10.3							
Vanadium		1000	2.0	1029.7	**103.0**						
Zinc		1000	-3.2	909.4	**90.9**						

ICP Interference Check Sample

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

ICS SOURCE: I.V.

RUNID: IP080721

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	203554.6	202971.3	**101.5**						
Antimony		1000	19.6	1103.8	**110.4**						
Arsenic		1000	20.4	1052.2	**105.2**						
Barium		1000	0.4	1009.8	**101.0**						
Beryllium		1000	0.0	1028.8	**102.9**						
Boron			-2.0	-3.9							
Cadmium		1000	-0.8	1047.0	**104.7**						
Calcium	100000	100000	100382.1	99875.4	**99.9**						
Chromium		1000	0.6	985.2	**98.5**						
Cobalt		1000	-1.9	979.9	**98.0**						
Copper		1000	1.2	1092.4	**109.2**						
Iron	200000	200000	201676.8	200395.2	**100.2**						
Lead		1000	14.3	987.4	**98.7**						
Magnesium	100000	100000	102610.3	101660.2	**101.7**						
Manganese		1000	0.2	966.1	**96.6**						
Molybdenum			5.9	6.0							
Nickel		1000	-5.9	977.6	**97.8**						
Potassium			71.4	197.7							
Selenium		1000	-74.3	956.2	**95.6**						
Silicon			-20.8	-32.8							
Silver		1000	-1.5	1039.6	**104.0**						
Sodium			26.3	29.8							
Strontium			1.2	1.3							
Thallium		1000	-27.1	948.4	**94.8**						
Tin			-3.4	-4.0							
Titanium			6.0	12.6							
Vanadium		1000	2.2	1060.7	**106.1**						
Zinc		1000	-1.7	975.1	**97.5**						

IDLs and ICP Linear Ranges

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

IDL DATE: 6/1/2006

PROJECT: T4 EARLY ACTION

ICP LR DATE: 6/19/2006

SDG: JQ35

UNITS: ug/L

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

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

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	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	16.2100000	0.0000000	0.0000000
Arsenic	188.98	0.0899919	0.0000000	0.1533550	0.0000000	0.0557918	0.0000000	0.0000000	0.3754730	0.3209290	0.0000000
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.2555740	0.0000000	0.0000000	0.0719803
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	1.3822800	0.0463102	0.0000000	0.0000000	0.0000000	0.1963220	0.0000000	0.0000000	0.0100886
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.0838568
Cobalt	228.62	-0.0170392	0.0000000	0.2412880	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0234430
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.2000560	-0.0393520	0.0000000	-0.0946918
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.7498730	0.0000000	0.0000000
Lead	220.35	-0.1925250	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.1485420	-1.6563300	0.6048040	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-1.3145300	-0.8640350	0.0000000	0.7372390
Manganese	257.61	0.0072299	0.0000000	0.0000000	0.0000000	0.0055500	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	-0.0221489	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-2.0980400	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.0415558
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	8.9586100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	3.5279800	0.3870280	0.0000000	0.0000000
Tin	189.93	0.0000000	0.0000000	0.0000000	0.0000000	-0.1774780	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2123760	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-7.0582400	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	-0.0129802	0.3119720	0.0000000	0.3266740	0.0000000	0.0266652

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

IEC DATE: 6/19/2006

SDG: JQ35

INSTRUMENT ID: OPTIMA ICP 1

ANALYTE	WAVELENGTH	MG	MN	MO	NI	PB	SB	TI	TL	V	ZN
Aluminum	308.22	0.0000000	0.0000000	19.6878000	0.0000000	0.0000000	0.0000000	0.7151350	0.0000000	16.7609000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	-0.3295220	0.0000000	0.0000000	-0.8642410	0.0000000	-3.4575900	0.0000000
Arsenic	188.98	0.0000000	0.0000000	0.9150530	0.0000000	0.0000000	0.0000000	2.5519000	0.0000000	0.0000000	0.1492760
Barium	233.53	0.0000000	0.0000000	0.0000000	0.1240640	0.0000000	0.0000000	0.0000000	0.0000000	0.4604860	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.5675800	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	-0.2000800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.1529370	0.5096240	0.1429920	0.0000000	0.0000000	0.0000000	0.0965822	0.0000000	0.1796520	0.0000000
Cobalt	228.62	0.0000000	0.0000000	-0.3795350	0.0320069	0.0000000	0.0000000	1.7290300	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0085698	0.0000000	0.7344770	0.0000000	0.0000000	0.0000000	0.2196270	0.0000000	0.0000000	0.0000000
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.7593200	0.0000000
Lead	220.35	0.0000000	0.0000000	-0.3190660	-0.1742160	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	-3.2635900	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0170007	0.0000000	0.0000000	0.0000000	-0.2391890	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0236906	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.5765410	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	1.1348600	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.1621690	0.1065380	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.3119270	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	250.8830000	0.0000000	0.0000000	252.0990000
Thallium	190.80	0.0000000	0.0000000	-3.5954300	0.0000000	0.0000000	0.0000000	0.8751120	0.0000000	2.2588300	0.0000000
Tin	189.93	0.0270703	0.0000000	0.0000000	0.0000000	-0.0530103	-1.8271700	0.1974990	0.0000000	0.0000000	0.0000000
Titanium	334.90	0.0000000	0.0000000	1.0370700	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	-0.1494890	-0.7380980	0.0000000	0.0000000	0.0000000	0.4684280	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.3271770	0.0000000	-0.0935990	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Preparation Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

ANALYSIS METHOD: ICP

ARI PREP CODE: SWC

PREPDATE: 7/28/2006

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
T4-S3-02-C	JQ35A	1.062	0.0	50.0
T4-S3-02-CD	JQ35ADUP	1.066	0.0	50.0
T4-S3-02-CS	JQ35ASPK	1.059	0.0	50.0
T4-S3-02-D	JQ35B	1.048	0.0	50.0
T4-S3-02-E	JQ35C	1.031	0.0	50.0
T4-S3-02-F	JQ35D	1.086	0.0	50.0
T4-S3-03-B	JQ35E	1.073	0.0	50.0
T4-S3-03-C	JQ35F	1.008	0.0	50.0
T4-S3-03-D	JQ35G	1.079	0.0	50.0
T4-S3-05-E	JQ35H	1.078	0.0	50.0
T4-S3-05-F	JQ35I	1.040	0.0	50.0
T4-S3-05-G	JQ35J	1.017	0.0	50.0
T4-S3-05-H	JQ35K	1.052	0.0	50.0
T4-S3-05-J	JQ35L	1.004	0.0	50.0
T4-S3-06-A	JQ35M	1.046	0.0	50.0
PBS	JQ35MB1	1.000	0.0	50.0
LCSS	JQ35MB1SPK	1.000	0.0	50.0
T4-S3-06-B	JQ35N	1.072	0.0	50.0
T4-S3-08-B	JQ35O	1.066	0.0	50.0
T4-S3-08-C	JQ35P	1.065	0.0	50.0

Preparation Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JQ35

ANALYSIS METHOD: ICP

ARI PREP CODE: SWC

PREPDATE: 8/7/2006

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
T4-S3-02-C	JQ35RA	1.020	0.0	50.0
T4-S3-02-CD	JQ35RADUP	1.022	0.0	50.0
T4-S3-02-CS	JQ35RASPK	1.019	0.0	50.0
PBS	JQ35RMB1	1.000	0.0	50.0
LCSS	JQ35RMB1SPK	1.000	0.0	50.0

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 8/1/2006

SDG: JQ35 | RUNID: IP080121 | METHOD: ICP | END DATE: 8/1/2006

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	09310																					X									X
S2	S2	1.00	09372																														
S3	S3	1.00	09413																					X									X
S4	S4	1.00	09462																														
S5	S5	1.00	09510																														
ICV	ICV	1.00	10285																					X									X
ICB	ICB	1.00	10351																					X									X
ZZZZZZ	dilblank	1.00	10414																														
ZZZZZZ	ZZZZZZ	1.00	10480																														
S0	S0	1.00	11020																					X									X
CCV	CCV1	1.00	11064																					X									X
CCB	CCB1	1.00	11131																					X									X
CRI	CRII	1.00	11193																					X									X
ICSA	ICSAI	1.00	11255																					X									X
ICSAB	ICSABI	1.00	11323																					X									X
CCV	CCV2	1.00	11385																					X									X
CCB	CCB2	1.00	11451																					X									X
ZZZZZZ	JQ42MB	1.00	11513																														
ZZZZZZ	JQ42A	1.00	11575																														
ZZZZZZ	JQ42B	1.00	12042																														
ZZZZZZ	JQ42C	1.00	12104																														
ZZZZZZ	JQ42D	1.00	12170																														
ZZZZZZ	JQ42E	1.00	12233																														
ZZZZZZ	JQ42F	1.00	12295																														
ZZZZZZ	JQ42G	1.00	12362																														
ZZZZZZ	JQ42H	1.00	12424																														
ZZZZZZ	JQ42I	1.00	12490																														
CCV	CCV3	1.00	12553																					X									X
CCB	CCB3	1.00	13015																					X									X
ZZZZZZ	JQ43MB	2.00	13081																														
ZZZZZZ	JQ43A	2.00	13144																														
ZZZZZZ	JQ43B	2.00	13210																														
ZZZZZZ	JQ43C	2.00	13273																														
ZZZZZZ	JQ43D	2.00	13335																														
ZZZZZZ	JQ43E	2.00	13402																														

FORM XIV

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 8/1/2006

SDG: JQ35 | RUNID: IP080121 | METHOD: ICP | END DATE: 8/1/2006

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
ZZZZZZ	JQ43F	2.00	13464																														
ZZZZZZ	JQ43G	2.00	13531																														
ZZZZZZ	JQ43H	2.00	13593																														
ZZZZZZ	JQ43I	2.00	14055																														
CCV	CCV4	1.00	14122																					X									X
CCB	CCB4	1.00	14184																					X									X
PBS	JQ35MB1	2.00	14235																														
T4-S3-02-D	JQ35B	2.00	14301																					X									X
T4-S3-02-E	JQ35C	2.00	14370																					X									X
T4-S3-02-F	JQ35D	2.00	14434																														
T4-S3-03-B	JQ35E	2.00	14501																					X									X
T4-S3-03-C	JQ35F	2.00	14570																					X									X
T4-S3-02-CD	JQ35ADUP	2.00	15034																														
T4-S3-02-C	JQ35A	2.00	15103																														
T4-S3-02-CS	JQ35ASPK	2.00	15171																														
LCSS	JQ35MB1SPK	2.00	15235																														
CCV	CCV5	1.00	15303																					X									X
CCB	CCB5	1.00	15370																					X									X
T4-S3-03-D	JQ35G	2.00	15432																					X									X
T4-S3-05-E	JQ35H	2.00	15495																					X									X
T4-S3-05-F	JQ35I	2.00	15564																					X									X
T4-S3-05-G	JQ35J	2.00	16033																					X									X
T4-S3-05-H	JQ35K	2.00	16102																					X									X
T4-S3-05-J	JQ35L	2.00	16170																					X									X
T4-S3-06-A	JQ35M	2.00	16235																					X									X
T4-S3-06-B	JQ35N	2.00	16304																					X									X
T4-S3-08-B	JQ35O	2.00	16373																					X									X
T4-S3-08-C	JQ35P	2.00	16443																					X									X
CCV	CCV6	1.00	16514																					X									X
CCB	CCB6	1.00	16581																					X									X
ZZZZZZ	JR03MB	2.00	17043																														
T4-S3-02-F	JQ35D	5.00	17110																					X									X
ZZZZZZ	JR03A	2.00	17174																														
ZZZZZZ	JR03B	2.00	17243																														
ZZZZZZ	JR04A	2.00	17313																														

FORM XIV

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 8/1/2006

SDG: JQ35 | RUNID: IP080121 | METHOD: ICP | END DATE: 8/1/2006

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
ZZZZZZ	JR04B	2.00	17381																														
ZZZZZZ	JR04C	2.00	17445																														
ZZZZZZ	JR05N	2.00	17514																														
ZZZZZZ	JR05O	2.00	17581																														
ZZZZZZ	JR03REF	2.00	18050																														
CCV	CCV7	1.00	18113																					X									X
CCB	CCB7	1.00	18180																					X									X

1269

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 8/7/2006

SDG: JQ35 | RUNID: IP080721 | METHOD: ICP | END DATE: 8/7/2006

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	10450																					X									X
S0	S0	1.00	10514																					X									X
S2	S2	1.00	10580																														
S3	S3	1.00	11022																					X									X
S4	S4	1.00	11070																														
S5	S5	1.00	11114																														
ZZZZZZ	ZZZZZZ	1.00	11314																														
ICV	ICV	1.00	11385																					X									X
ICB	ICB	1.00	11451																					X									X
CRI	CRII	1.00	11513																					X									X
ICSA	ICSAI	1.00	11575																					X									X
ICSAB	ICSABI	1.00	12042																					X									X
CCV	CCV1	1.00	12104																					X									X
CCB	CCB1	1.00	12170																					X									X
ZZZZZZ	JP87MB2	1.00	12221																														
ZZZZZZ	JP87A	1.00	12283																														
ZZZZZZ	JP87B	1.00	12351																														
ZZZZZZ	JP87AF	1.00	12415																														
ZZZZZZ	JP87R	1.00	12483																														
CCV	CCV2	1.00	12545																					X									X
CCB	CCB2	1.00	13010																					X									X
ZZZZZZ	JQ77MB	2.00	13073																														
ZZZZZZ	JR76MB	1.00	13135																														
ZZZZZZ	JR76A	1.00	13201																														
ZZZZZZ	JQ77E	2.00	13265																														
ZZZZZZ	JQ77F	2.00	13332																														
ZZZZZZ	JQ77G	2.00	13394																														
ZZZZZZ	JQ77H	2.00	13460																														
ZZZZZZ	JQ77I	2.00	13522																														
ZZZZZZ	JQ77REF	2.00	13585																														
ZZZZZZ	JR76MBSPK	1.00	14050																														
CCV	CCV3	1.00	14113																					X									X
CCB	CCB3	1.00	14175																					X									X
PBS	JQ35RMB1	2.00	14224																					X									X
T4-S3-02-CD	JQ35RADUP	2.00	14291																					X									X

FORM XIV

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 8/7/2006

SDG: JQ35 | RUNID: IP080721 | METHOD: ICP | END DATE: 8/7/2006

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
T4-S3-02-C	JQ35RA	2.00	14352																					X									X
T4-S3-02-CS	JQ35RASPK	2.00	14413																					X									X
ZZZZZZ	JQ52RB	2.00	14475																														
ZZZZZZ	JQ52RC	2.00	14540																														
ZZZZZZ	JQ52RASPK	2.00	15001																														
ZZZZZZ	JQ52RA	2.00	15063																														
ZZZZZZ	JQ52RADUP	2.00	15124																														
LCSS	JQ35RMB1SPK	2.00	15190																					X									X
CCV	CCV4	1.00	15252																					X									X
CCB	CCB4	1.00	15314																					X									X
ZZZZZZ	JQ52RMB1	2.00	15380																														
ZZZZZZ	JQ52RD	2.00	15442																														
ZZZZZZ	JR75A	2.00	15504																														
ZZZZZZ	JR75B	2.00	15565																														
ZZZZZZ	JR75C	2.00	16032																														
ZZZZZZ	JR75D	2.00	16095																														
ZZZZZZ	JR75E	2.00	16160																														
ZZZZZZ	JR75F	2.00	16223																														
ZZZZZZ	JR75G	2.00	16291																														
ZZZZZZ	JQ52RMB1SPK	2.00	16354																														
CCV	CCV5	1.00	16420																					X									X
CCB	CCB5	1.00	16483																					X									X
ZZZZZZ	JQ77MB	2.00	16545																														
ZZZZZZ	JR75MB	2.00	17011																														
ZZZZZZ	JR75H	2.00	17074																														
ZZZZZZ	JR75I	2.00	17140																														
ZZZZZZ	JR75J	2.00	17202																														
ZZZZZZ	JR75K	2.00	17264																														
ZZZZZZ	JR75L	2.00	17330																														
ZZZZZZ	JR75M	2.00	17391																														
ZZZZZZ	JR75N	2.00	17453																														
ZZZZZZ	JR75REF	2.00	17514																														
CCV	CCV6	1.00	17580																					X									X
CCB	CCB6	1.00	18041																					X									X
PBS	JQ35RMB1	2.00	18103																														

FORM XIV

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 8/7/2006

SDG: JQ35 | RUNID: IP080721 | METHOD: ICP | END DATE: 8/7/2006

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
ZZZZZZ	JR24B	1.00	18170																														
ZZZZZZ	JR24C	1.00	18234																														
ZZZZZZ	JR24D	1.00	18302																														
T4-S3-02-CD	JQ35RADUP	2.00	18371																														
T4-S3-02-C	JQ35RA	2.00	18432																														
T4-S3-02-CS	JQ35RASPK	2.00	18494																														
ZZZZZZ	JQ52RASPK	2.00	18555																														
ZZZZZZ	JQ52RA	2.00	19021																														
ZZZZZZ	JQ52RADUP	2.00	19082																														
CCV	CCV7	1.00	19144																					X									X
CCB	CCB7	1.00	19205																					X									X

1272

Metals Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ35

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-02-C
SAMPLE

Lab Sample ID: JQ35A
LIMS ID: 06-12956
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 53.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/07/06	6010B	08/07/06	**7439-92-1**	**Lead**	4	**212**	
3050B	08/07/06	6010B	08/07/06	**7440-66-6**	**Zinc**	1	**328**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: T4-S3-02-D**
Page 1 of 1 **SAMPLE**

Lab Sample ID: JQ35B
LIMS ID: 06-12957
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 55.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/28/06	6010B	08/01/06	**7439-92-1**	**Lead**	3	**496**	
3050B	07/28/06	6010B	08/01/06	**7440-66-6**	**Zinc**	1	**633**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-02-E
SAMPLE

Lab Sample ID: JQ35C
LIMS ID: 06-12958
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 58.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/28/06	6010B	08/01/06	**7439-92-1**	**Lead**	3	**452**	
3050B	07/28/06	6010B	08/01/06	**7440-66-6**	**Zinc**	1	**573**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-02-F
SAMPLE

Lab Sample ID: JQ35D
LIMS ID: 06-12959
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Percent Total Solids: 55.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/28/06	6010B	08/01/06	**7439-92-1**	**Lead**	8	**721**	
3050B	07/28/06	6010B	08/01/06	**7440-66-6**	**Zinc**	3	**705**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-03-B
SAMPLE

Lab Sample ID: JQ35E
LIMS ID: 06-12960
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 56.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/28/06	6010B	08/01/06	**7439-92-1**	**Lead**	3	**266**	
3050B	07/28/06	6010B	08/01/06	**7440-66-6**	**Zinc**	1	**418**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-03-C
SAMPLE

Lab Sample ID: JQ35F
LIMS ID: 06-12961
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 59.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/28/06	6010B	08/01/06	**7439-92-1**	**Lead**	3	**417**	
3050B	07/28/06	6010B	08/01/06	**7440-66-6**	**Zinc**	1	**546**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-03-D
SAMPLE

Lab Sample ID: JQ35G
LIMS ID: 06-12962
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 66.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/28/06	6010B	08/01/06	**7439-92-1**	**Lead**	3	**580**	
3050B	07/28/06	6010B	08/01/06	**7440-66-6**	**Zinc**	0.8	**583**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-05-E
SAMPLE

Lab Sample ID: JQ35H
LIMS ID: 06-12963
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 51.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/28/06	6010B	08/01/06	**7439-92-1**	**Lead**	4	**142**	
3050B	07/28/06	6010B	08/01/06	**7440-66-6**	**Zinc**	1	**303**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-05-F
SAMPLE

Lab Sample ID: JQ35I
LIMS ID: 06-12964
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 55.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/28/06	6010B	08/01/06	**7439-92-1**	**Lead**	3	**267**	
3050B	07/28/06	6010B	08/01/06	**7440-66-6**	**Zinc**	1	**479**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-05-G
SAMPLE

Lab Sample ID: JQ35J
LIMS ID: 06-12965
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 57.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/28/06	6010B	08/01/06	**7439-92-1**	**Lead**	3	**264**	
3050B	07/28/06	6010B	08/01/06	**7440-66-6**	**Zinc**	1	**454**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-05-H
SAMPLE

Lab Sample ID: JQ35K
LIMS ID: 06-12966
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 56.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/28/06	6010B	08/01/06	**7439-92-1**	**Lead**	3	**311**	
3050B	07/28/06	6010B	08/01/06	**7440-66-6**	**Zinc**	1	**465**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-05-J
SAMPLE

Lab Sample ID: JQ35L
LIMS ID: 06-12967
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 78.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/28/06	6010B	08/01/06	**7439-92-1**	**Lead**	3	**6**	
3050B	07/28/06	6010B	08/01/06	**7440-66-6**	**Zinc**	0.8	**53.6**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-06-A
SAMPLE

Lab Sample ID: JQ35M
LIMS ID: 06-12968
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 50.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/28/06	6010B	08/01/06	**7439-92-1**	**Lead**	4	**104**	
3050B	07/28/06	6010B	08/01/06	**7440-66-6**	**Zinc**	1	**188**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-06-B
SAMPLE

Lab Sample ID: JQ35N
LIMS ID: 06-12969
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Percent Total Solids: 72.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/28/06	6010B	08/01/06	**7439-92-1**	**Lead**	3	**10**	
3050B	07/28/06	6010B	08/01/06	**7440-66-6**	**Zinc**	0.8	**53.5**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-08-B
SAMPLE

Lab Sample ID: JQ35O
LIMS ID: 06-12970
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 68.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/28/06	6010B	08/01/06	**7439-92-1**	**Lead**	3	**188**	
3050B	07/28/06	6010B	08/01/06	**7440-66-6**	**Zinc**	0.8	**297**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-08-C
SAMPLE

Lab Sample ID: JQ35P
LIMS ID: 06-12971
Matrix: Sediment
Data Release Authorized:
Reported: 08/08/06

QC Report No: JQ35-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Percent Total Solids: 82.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	07/28/06	6010B	08/01/06	**7439-92-1**	**Lead**	2	**89**	
3050B	07/28/06	6010B	08/01/06	**7440-66-6**	**Zinc**	0.7	**142**	

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: JQ35

prepared
by

Analytical Resources, Inc.

OPTIMA ICP SAMPLE RUN LOG

IEC Date: 6.19.06 Analysis Date: 8.7.06 Analyst: BD

LR Date: 6.19.06 Page: 1 of 5

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		Std 1 Std 1			new sc 2290-10
		2			2293-1
		3			-2
		4			-3
		5			-4
label		zzzzzz ICV			tubing loose 2291-9
		ICB			
		CRI			
		ICSA			
		ICSAB			
		CCV1			
		CCB1			
	✓	JP87 MB2	WMN		PE
		A			
		B			
		AF			
		R			SERM B C.O.
		CCV2			
		CCB2			B high
	✓	JQ77 MB	SLC	2	Zn .007 rerun
		JR76 MB	WMN		
		A			
		JQ77E	SLC	2	
		F			

OPTIMA ICP SAMPLE RUN LOG

IEC Date: — Analysis Date: 8.7.06 Analyst: BLW

LR Date: — Page: 2 of 5

All corrections made by analyst unless otherwise noted. 8.7.06 BLW

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		JQ77G	SWC	2	
		H			
		I			
		Ref		✓	
		~~JR~~ JR76MBsplk	WHN		0.08ml ICPSplk / 8ml
		CCV3			
		CCB3			
		JQ3~~5~~MB1	SWC	2	Zn .024
		Adup			
		A			
		Asplk			Zn 132% CAF
		JQ52R B			
		C			
label		Adupsplk			noisy - ~~Perm~~ CAF Zn 48%
		A			
label		~~Asplk~~ dup			
		JQ35RMB1splk		✓	
		CCV4			
		CCB4			
		JQ52R MB1	SWC	2	Zn .02
		D			
	✓	JR75 A			noisy Perm
	✓	B			noisy ↓
		C			-

OPTIMA ICP SAMPLE RUN LOG

IEC Date: — Analysis Date: 8.7.06 Analyst: BW

LR Date: — Page: 3 of 5

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		JR75 D	SWC	2	
	✓	E			noisy
		F			
		G			
	✓	JQ52R MB1			noisy
		CCV5			
		CCB5			
		JQ77 MB	SWC	2	
		JR75 MB			
		H			
	✓	I			noisy rerun
		J			
	✓	K			noisy rerun
		L			
		M			
		N			
		Ref		✓	
		CCV6			
		CCB6			
	✓	JQ35R MB1	SWC	2	(Wout (Zn) Zn .027 - confirms
		JR24 B	TWC		
		C			
		D			Mg high - rerun 1/2
	✓	JQ35R Adup	SWC	2	

OPTIMA ICP SAMPLE RUN LOG

IEC Date: — Analysis Date: 8.7.06 Analyst: BLW

LR Date: — Page: 4 of 5

All corrections made by analyst unless otherwise noted. 8.8.06 BLW

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
	✓	JQ35R A	SWC	2	CWout(Zn)
		↓ ASdi			Zn 161%
label		JQ52R ADup SPK			Zn 43%
		A			
label	↓	↓ ASpk DUP	↓	↓	↓
		CCV7			Zn high
		CCB7			
	✓	~~JR24 MB1~~	~~TWC~~		~~Zn .005~~ CWout(Zn)
label	↓	ZZZZZZ		5	↓
		JR24 A	TWC		
		ADup	↓		
		ASpk			
		F			
		G			
		H			
		I			Mg high
	↓	↓ MB1Spk	↓		↓
		CCV8			
		CCB8			Na C.O.
		CRI			
		ICSA			
		ICSAB			
		CCV9			
		~~CCB9~~			

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA **Analysis Date:** 8.7.06

	Analyst BW 8.8	Peer AE 8	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	✓	✓	see log
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	JQ35R JQ52R
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	JQ35R JQ52R
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	✓	✓	JQ35R JQ52R

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	158.0 kPa	0.50 L/min

==========

8/7/2006 10:43:21 AM Hg ReAlign... Actual peak offset (nm): -0.001
Drift (nm): -0.001 Slit adjustment: -2

==========

==========

Analysis Begun

Start Time: 8/7/2006 10:44:59 AM **Plasma On Time: 8/7/2006 9:54:30 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: PE060807
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

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Ti 334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Zn 206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
ScA 357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Calib Blank 1 **Date Collected: 8/7/2006 10:45:00 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	158.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1594693.4	8984.49	0.56%	100.0	%
ScR 361.383	207674.2	1129.74	0.54%	100.0	%
Ag 328.068†	675.0	92.74	13.74%	[0.00]	mg/L
Al 308.215†	-213.2	26.79	12.57%	[0.00]	mg/L
As 188.979†	23.3	3.96	17.02%	[0.00]	mg/L
B 249.677†	-13.9	9.23	66.33%	[0.00]	mg/L
Ba 233.527†	28.8	4.32	15.02%	[0.00]	mg/L
Be 313.042†	1276.7	25.52	2.00%	[0.00]	mg/L
Ca 317.933†	198.7	44.73	22.52%	[0.00]	mg/L
Cd 228.802†	137.6	1.55	1.13%	[0.00]	mg/L
Co 228.616†	27.6	2.57	9.30%	[0.00]	mg/L
Cr 267.716†	47.9	4.79	9.98%	[0.00]	mg/L
Cu 324.752†	3564.5	58.26	1.63%	[0.00]	mg/L
Fe 273.955†	-34.4	1.20	3.49%	[0.00]	mg/L
K 766.490†	2115.3	130.45	6.17%	[0.00]	mg/L
Mg 279.077†	-100.6	16.94	16.83%	[0.00]	mg/L
Mn 257.610†	133.9	6.37	4.76%	[0.00]	mg/L
Mo 202.031†	-38.5	4.77	12.39%	[0.00]	mg/L
Na 589.592†	-266.4	27.17	10.20%	[0.00]	mg/L
Na 330.237†	-139.8	4.57	3.27%	[0.00]	mg/L
Ni 231.604†	2.5	1.67	66.83%	[0.00]	mg/L
Pb 220.353†	149.2	4.55	3.05%	[0.00]	mg/L
Sb 206.836†	14.8	3.23	21.83%	[0.00]	mg/L
Se 196.026†	-90.5	7.88	8.71%	[0.00]	mg/L
Si 288.158†	-74.7	1.67	2.23%	[0.00]	mg/L
Sn 189.927†	12.6	4.46	35.24%	[0.00]	mg/L
Sr 421.552†	-976.5	15.84	1.62%	[0.00]	mg/L
Ti 334.903†	-164.9	25.07	15.20%	[0.00]	mg/L
Tl 190.801†	-9.7	1.41	14.59%	[0.00]	mg/L
V 292.402†	-89.9	42.15	46.87%	[0.00]	mg/L
Zn 206.200†	1.2	1.61	139.81%	[0.00]	mg/L

Sc 2292-5

Analysis Begun

Start Time: 8/7/2006 10:51:46 AM
Plasma On Time: 8/7/2006 9:54:30 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: PE060807
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 1
Sample ID: Calib Blank 1
Date Collected: 8/7/2006 10:51:46 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	159.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1620025.0	10382.61	0.64%	100.0	%
ScR 361.383	203060.9	1275.48	0.63%	100.0	%
Ag 328.068†	686.6	14.66	2.14%	[0.00]	mg/L
Al 308.215†	-189.5	21.27	11.23%	[0.00]	mg/L
As 188.979†	21.6	1.05	4.86%	[0.00]	mg/L
B 249.677†	-13.8	5.40	39.20%	[0.00]	mg/L
Ba 233.527†	28.9	2.22	7.67%	[0.00]	mg/L
Be 313.042†	1222.4	3.54	0.29%	[0.00]	mg/L
Ca 317.933†	177.6	8.44	4.75%	[0.00]	mg/L
Cd 228.802†	140.5	2.78	1.98%	[0.00]	mg/L
Co 228.616†	23.8	2.76	11.58%	[0.00]	mg/L
Cr 267.716†	38.4	4.34	11.32%	[0.00]	mg/L
Cu 324.752†	3480.0	38.06	1.09%	[0.00]	mg/L
Fe 273.955†	-32.2	2.43	7.56%	[0.00]	mg/L
K 766.490†	2122.2	38.62	1.82%	[0.00]	mg/L
Mg 279.077†	-96.6	21.95	22.72%	[0.00]	mg/L
Mn 257.610†	130.7	0.64	0.49%	[0.00]	mg/L
Mo 202.031†	-39.8	1.82	4.58%	[0.00]	mg/L
Na 589.592†	-242.9	32.02	13.18%	[0.00]	mg/L
Na 330.237†	-149.6	4.44	2.97%	[0.00]	mg/L
Ni 231.604†	7.6	9.97	130.85%	[0.00]	mg/L
Pb 220.353†	150.1	6.82	4.54%	[0.00]	mg/L
Sb 206.836†	13.8	2.04	14.81%	[0.00]	mg/L
Se 196.026†	-87.9	5.55	6.31%	[0.00]	mg/L
Si 288.158†	-75.7	7.79	10.29%	[0.00]	mg/L
Sn 189.927†	13.9	3.47	25.02%	[0.00]	mg/L
Sr 421.552†	-949.3	17.61	1.86%	[0.00]	mg/L
Ti 334.903†	-201.4	8.67	4.31%	[0.00]	mg/L
Tl 190.801†	-10.3	4.16	40.48%	[0.00]	mg/L
V 292.402†	-123.7	27.64	22.34%	[0.00]	mg/L
Zn 206.200†	-0.2	1.72	>999.9%	[0.00]	mg/L

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

Autosampler Location: 2
Date Collected: 8/7/2006 10:58:08 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	159.0 kPa	0.50 L/min

Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1612671.3	8016.36	0.50%	99.55	%
ScR 361.383	206900.3	2242.64	1.08%	101.9	%
Ba 233.527†	33394.6	122.52	0.37%	[10]	mg/L
Cd 228.802†	311960.1	1263.39	0.40%	[10]	mg/L
Co 228.616†	349610.5	2199.81	0.63%	[10]	mg/L
Cr 267.716†	82771.7	366.83	0.44%	[10]	mg/L
Cu 324.752†	2617366.8	11721.14	0.45%	[10]	mg/L
Mn 257.610†	286289.0	1201.25	0.42%	[10]	mg/L
V 292.402†	2668016.8	12221.26	0.46%	[10]	mg/L

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

Autosampler Location: 3
Date Collected: 8/7/2006 11:02:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	159.0 kPa	0.50 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1591310.1	10377.38	0.65%	98.23	%
ScR 361.383	206859.0	903.70	0.44%	101.9	%
Ag 328.068†	293088.8	959.42	0.33%	[1.0]	mg/L
As 188.979†	9138.7	45.37	0.50%	[10]	mg/L
B 249.677†	30204.0	190.31	0.63%	[10]	mg/L
Be 313.042†	3168844.4	6798.17	0.21%	[5.0]	mg/L
Na 589.592†	323669.9	464.53	0.14%	[50]	mg/L
Ni 231.604†	19830.9	90.04	0.45%	[10]	mg/L
Pb 220.353†	86371.3	252.11	0.29%	[10]	mg/L
Se 196.026†	12888.6	56.61	0.44%	[10]	mg/L
Sr 421.552†	3622592.7	4853.98	0.13%	[5]	mg/L
Tl 190.801†	10732.3	81.20	0.76%	[10]	mg/L
Zn 206.200†	10066.9	86.78	0.86%	[10]	mg/L

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

Autosampler Location: 4
Date Collected: 8/7/2006 11:07:04 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	159.0 kPa	0.50 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1619740.8	10286.66	0.64%	99.98	%
ScR 361.383	212645.4	1441.71	0.68%	104.7	%
Mo 202.031†	99603.9	755.80	0.76%	[10]	mg/L
Sb 206.836†	10545.4	95.11	0.90%	[10]	mg/L
Si 288.158†	14501.7	61.85	0.43%	[10]	mg/L
Sn 189.927†	42637.4	207.08	0.49%	[10]	mg/L
Ti 334.903†	263496.5	1974.94	0.75%	[10]	mg/L

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

Autosampler Location: 5
Date Collected: 8/7/2006 11:11:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	158.0 kPa	0.50 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1537889.9	5213.34	0.34%	94.93	%
ScR 361.383	207042.8	1279.80	0.62%	102.0	%
Al 308.215†	41279.7	165.92	0.40%	[30]	mg/L
Ca 317.933†	643574.7	2077.04	0.32%	[30]	mg/L
Fe 273.955†	99912.7	284.94	0.29%	[100]	mg/L
K 766.490†	139653.7	307.59	0.22%	[100]	mg/L
Mg 279.077†	44524.6	127.50	0.29%	[30]	mg/L
Na 330.237†	3003.7	26.64	0.89%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	293100	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1376	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	913.9	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	3020	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	3339	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	633800	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	21450	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	31200	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	34960	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	8277	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	261700	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	999.1	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1397	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1484	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	28630	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	9960	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	6473	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	30.04	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1983	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	8637	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	1055	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1289	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1450	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	4264	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	724500	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	26350	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1073	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	266800	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	1007	0.00000	1.000000	

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	159.0 kPa	0.50 L/min

8/7/2006 11:31:38 AM Hg ReAlign... Actual peak offset (nm): -0.001
Drift (nm): -0.000 Slit adjustment: -2

Analysis Begun

Start Time: 8/7/2006 11:31:48 AM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Plasma On Time: 8/7/2006 9:54:30 AM
Technique: ICP Continuous

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060807
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: ~~CV~~ ZZZZZ
Analyst:
Initial Sample Wt: RW
Dilution: 1X 8.7

Autosampler Location: 7
Date Collected: 8/7/2006 11:31:48 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	158.0 kPa	0.50 L/min

tubing 10058

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	3743.8	0.2311	%	0.00323				1.40%
ScR 361.383	44.5	0.02194	%	0.000328				1.50%
Ag 328.068†	-29113.8	-0.1010	mg/L	0.02001	-0.1010	mg/L	0.02001	19.81%
Al 308.215†	-218296.6	-158.7	mg/L	13.70	-158.7	mg/L	13.70	8.63%
As 188.979†	928.1	1.016	mg/L	0.7171	1.016	mg/L	0.7171	70.61%
B 249.677†	48618.9	16.10	mg/L	2.750	16.10	mg/L	2.750	17.08%
Ba 233.527†	19959.3	5.978	mg/L	0.7372	5.978	mg/L	0.7372	12.33%
Be 313.042†	2026667.9	3.198	mg/L	0.0498	3.198	mg/L	0.0498	1.56%
Ca 317.933†	124629.9	5.810	mg/L	0.9965	5.810	mg/L	0.9965	17.15%
Cd 228.802†	2701.6	0.08645	mg/L	0.007137	0.08645	mg/L	0.007137	8.25%
Co 228.616†	-1908.9	-0.06624	mg/L	0.018555	-0.06624	mg/L	0.018555	28.01%
Cr 267.716†	5749.9	0.6976	mg/L	1.28934	0.6976	mg/L	1.28934	184.82%
Cu 324.752†	316310.8	1.206	mg/L	0.0064	1.206	mg/L	0.0064	0.53%
Fe 273.955†	-25264.3	-25.29	mg/L	5.563	-25.29	mg/L	5.563	22.00%
K 766.490†	3505115.4	2510	mg/L	49.5	2510	mg/L	49.5	1.97%
Mg 279.077†	-73558.7	-49.54	mg/L	3.779	-49.54	mg/L	3.779	7.63%
Mn 257.610†	115835.2	4.048	mg/L	0.2666	4.048	mg/L	0.2666	6.58%
Mo 202.031†	-38.1	-0.00617	mg/L	0.054425	-0.00617	mg/L	0.054425	882.38%
Na 589.592†	46413.6	7.170	mg/L	7.5739	7.170	mg/L	7.5739	105.64%
Na 330.237†	-129330.4	-4306	mg/L	361.0	-4306	mg/L	361.0	8.38%
Ni 231.604†	12581.5	6.345	mg/L	2.2519	6.345	mg/L	2.2519	35.49%
Pb 220.353†	8777.3	0.9872	mg/L	0.11137	0.9872	mg/L	0.11137	11.28%
Sb 206.836†	1510.0	1.427	mg/L	0.4873	1.427	mg/L	0.4873	34.14%
Se 196.026†	-5442.3	-4.227	mg/L	0.6184	-4.227	mg/L	0.6184	14.63%
Si 288.158†	-48077.6	-33.15	mg/L	2.232	-33.15	mg/L	2.232	6.73%
Sn 189.927†	233.8	0.05898	mg/L	0.167363	0.05898	mg/L	0.167363	283.75%
Sr 421.552†	-975137.4	-1.346	mg/L	0.0609	-1.346	mg/L	0.0609	4.53%
Ti 334.903†	120028.6	4.555	mg/L	1.1958	4.555	mg/L	1.1958	26.25%
Tl 190.801†	-318.9	-0.3013	mg/L	0.67908	-0.3013	mg/L	0.67908	225.41%
V 292.402†	7357.4	0.03095	mg/L	0.021079	0.03095	mg/L	0.021079	68.11%
Zn 206.200†	5027.1	4.994	mg/L	3.1788	4.994	mg/L	3.1788	63.65%

Analysis Begun

Start Time: 8/7/2006 11:38:59 AM
Plasma On Time: 8/7/2006 9:54:30 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: PE060807
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 7
Sample ID: CV
Date Collected: 8/7/2006 11:38:59 AM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution: 1X
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	159.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1603227.6	98.96	%	0.561				0.57%
ScR 361.383	209595.3	103.2	%	1.59				1.54%
Ag 328.068†	288866.1	0.9857	mg/L	0.00173	0.9857	mg/L	0.00173	0.18%
Al 308.215†	2798.2	1.997	mg/L	0.0204	1.997	mg/L	0.0204	1.02%
As 188.979†	1813.3	1.979	mg/L	0.0153	1.979	mg/L	0.0153	0.77%
B 249.677†	3078.5	1.023	mg/L	0.0148	1.023	mg/L	0.0148	1.45%
Ba 233.527†	3328.9	0.9963	mg/L	0.01559	0.9963	mg/L	0.01559	1.57%
Be 313.042†	630823.4	0.9938	mg/L	0.01219	0.9938	mg/L	0.01219	1.23%
Ca 317.933†	44242.2	2.062	mg/L	0.0245	2.062	mg/L	0.0245	1.19%
Cd 228.802†	31430.9	1.005	mg/L	0.0018	1.005	mg/L	0.0018	0.18%
Co 228.616†	33888.3	0.9676	mg/L	0.00140	0.9676	mg/L	0.00140	0.14%
Cr 267.716†	8021.6	0.9681	mg/L	0.01454	0.9681	mg/L	0.01454	1.50%
Cu 324.752†	270030.8	1.031	mg/L	0.0021	1.031	mg/L	0.0021	0.21%
Fe 273.955†	2069.6	2.069	mg/L	0.0247	2.069	mg/L	0.0247	1.19%
K 766.490†	28396.6	20.33	mg/L	0.230	20.33	mg/L	0.230	1.13%
Mg 279.077†	3026.5	2.043	mg/L	0.0252	2.043	mg/L	0.0252	1.23%
Mn 257.610†	27585.8	0.9640	mg/L	0.01279	0.9640	mg/L	0.01279	1.33%
Mo 202.031†	9809.4	0.9848	mg/L	0.00740	0.9848	mg/L	0.00740	0.75%
Na 589.592†	320444.1	49.50	mg/L	0.508	49.50	mg/L	0.508	1.03%
Na 330.237†	1534.4	51.06	mg/L	0.642	51.06	mg/L	0.642	1.26%
Ni 231.604†	2012.4	1.016	mg/L	0.0157	1.016	mg/L	0.0157	1.55%
Pb 220.353†	16901.4	1.959	mg/L	0.0151	1.959	mg/L	0.0151	0.77%
Sb 206.836†	2215.4	2.101	mg/L	0.0100	2.101	mg/L	0.0100	0.48%
Se 196.026†	2544.0	1.973	mg/L	0.0070	1.973	mg/L	0.0070	0.36%
Si 288.158†	2995.1	2.067	mg/L	0.0292	2.067	mg/L	0.0292	1.41%
Sn 189.927†	3972.5	0.9358	mg/L	0.00528	0.9358	mg/L	0.00528	0.56%
Sr 421.552†	714479.6	0.9861	mg/L	0.01110	0.9861	mg/L	0.01110	1.13%
Ti 334.903†	26845.1	1.018	mg/L	0.0108	1.018	mg/L	0.0108	1.06%
Tl 190.801†	2112.1	1.965	mg/L	0.0148	1.965	mg/L	0.0148	0.75%
V 292.402†	263340.9	0.9943	mg/L	0.00210	0.9943	mg/L	0.00210	0.21%
Zn 206.200†	1049.9	1.042	mg/L	0.0141	1.042	mg/L	0.0141	1.35%

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

Autosampler Location: 1
Date Collected: 8/7/2006 11:45:11 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	159.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1573608.8	97.13	%	0.090				0.09%
ScR 361.383	215407.5	106.1	%	0.85				0.80%
Ag 328.068†	20.7	0.00007	mg/L	0.000083	0.00007	mg/L	0.000083	118.17%
Al 308.215†	10.6	0.00765	mg/L	0.018490	0.00765	mg/L	0.018490	241.79%
As 188.979†	6.0	0.00654	mg/L	0.007718	0.00654	mg/L	0.007718	118.06%
B 249.677†	40.6	0.01345	mg/L	0.003536	0.01345	mg/L	0.003536	26.29%
Ba 233.527†	0.9	0.00026	mg/L	0.001564	0.00026	mg/L	0.001564	608.81%
Be 313.042†	-22.2	-0.00004	mg/L	0.000056	-0.00004	mg/L	0.000056	157.65%
Ca 317.933†	-14.3	-0.00067	mg/L	0.000574	-0.00067	mg/L	0.000574	85.91%
Cd 228.802†	2.7	0.00008	mg/L	0.000101	0.00008	mg/L	0.000101	133.06%
Co 228.616†	-4.2	-0.00012	mg/L	0.000071	-0.00012	mg/L	0.000071	59.33%
Cr 267.716†	6.8	0.00082	mg/L	0.000344	0.00082	mg/L	0.000344	41.97%
Cu 324.752†	208.9	0.00080	mg/L	0.000105	0.00080	mg/L	0.000105	13.20%
Fe 273.955†	1.1	0.00107	mg/L	0.001922	0.00107	mg/L	0.001922	179.50%
K 766.490†	10.7	0.00769	mg/L	0.016237	0.00769	mg/L	0.016237	211.24%
Mg 279.077†	11.5	0.00775	mg/L	0.006639	0.00775	mg/L	0.006639	85.61%
Mn 257.610†	7.3	0.00025	mg/L	0.000174	0.00025	mg/L	0.000174	68.24%
Mo 202.031†	10.5	0.00105	mg/L	0.000277	0.00105	mg/L	0.000277	26.35%
Na 589.592†	72.7	0.01123	mg/L	0.006980	0.01123	mg/L	0.006980	62.14%
Na 330.237†	12.2	0.4058	mg/L	0.24307	0.4058	mg/L	0.24307	59.90%
Ni 231.604†	-6.6	-0.00335	mg/L	0.002194	-0.00335	mg/L	0.002194	65.46%
Pb 220.353†	30.6	0.00355	mg/L	0.000663	0.00355	mg/L	0.000663	18.69%
Sb 206.836†	2.2	0.00214	mg/L	0.000597	0.00214	mg/L	0.000597	27.91%
Se 196.026†	4.4	0.00339	mg/L	0.006262	0.00339	mg/L	0.006262	184.64%
Si 288.158†	2.8	0.00195	mg/L	0.002153	0.00195	mg/L	0.002153	110.37%
Sn 189.927†	9.2	0.00215	mg/L	0.000138	0.00215	mg/L	0.000138	6.40%
Sr 421.552†	84.7	0.00012	mg/L	0.000105	0.00012	mg/L	0.000105	89.98%
Ti 334.903†	23.6	0.00089	mg/L	0.000873	0.00089	mg/L	0.000873	97.66%
Tl 190.801†	3.7	0.00349	mg/L	0.003566	0.00349	mg/L	0.003566	102.29%
V 292.402†	56.2	0.00022	mg/L	0.000231	0.00022	mg/L	0.000231	106.58%
Zn 206.200†	3.4	0.00338	mg/L	0.001441	0.00338	mg/L	0.001441	42.69%

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

Autosampler Location: 8
Date Collected: 8/7/2006 11:51:33 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	159.0 kPa	0.50 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1587707.7	98.01	%	0.666				0.68%
ScR 361.383	207028.9	102.0	%	0.29				0.28%
Ag 328.068†	837.9	0.00286	mg/L	0.000195	0.00286	mg/L	0.000195	6.82%
Al 308.215†	77.0	0.05576	mg/L	0.015117	0.05576	mg/L	0.015117	27.11%
As 188.979†	52.7	0.05769	mg/L	0.004546	0.05769	mg/L	0.004546	7.88%
B 249.677†	79.4	0.02633	mg/L	0.003136	0.02633	mg/L	0.003136	11.91%
Ba 233.527†	11.5	0.00344	mg/L	0.000326	0.00344	mg/L	0.000326	9.47%
Be 313.042†	655.2	0.00103	mg/L	0.000029	0.00103	mg/L	0.000029	2.78%
Ca 317.933†	1110.1	0.05175	mg/L	0.000519	0.05175	mg/L	0.000519	1.00%
Cd 228.802†	63.6	0.00196	mg/L	0.000158	0.00196	mg/L	0.000158	8.05%
Co 228.616†	102.6	0.00293	mg/L	0.000269	0.00293	mg/L	0.000269	9.19%
Cr 267.716†	50.4	0.00608	mg/L	0.000837	0.00608	mg/L	0.000837	13.76%
Cu 324.752†	745.9	0.00285	mg/L	0.000276	0.00285	mg/L	0.000276	9.69%
Fe 273.955†	54.1	0.05414	mg/L	0.002812	0.05414	mg/L	0.002812	5.19%
K 766.490†	811.5	0.5810	mg/L	0.02485	0.5810	mg/L	0.02485	4.28%
Mg 279.077†	63.7	0.04291	mg/L	0.015271	0.04291	mg/L	0.015271	35.59%
Mn 257.610†	36.2	0.00127	mg/L	0.000076	0.00127	mg/L	0.000076	5.97%
Mo 202.031†	54.4	0.00547	mg/L	0.000189	0.00547	mg/L	0.000189	3.46%
Na 589.592†	3495.8	0.5400	mg/L	0.00590	0.5400	mg/L	0.00590	1.09%
Na 330.237†	34.8	1.157	mg/L	0.4769	1.157	mg/L	0.4769	41.23%
Ni 231.604†	20.9	0.01058	mg/L	0.002165	0.01058	mg/L	0.002165	20.47%
Pb 220.353†	195.3	0.02263	mg/L	0.000014	0.02263	mg/L	0.000014	0.06%
Sb 206.836†	59.5	0.05651	mg/L	0.002936	0.05651	mg/L	0.002936	5.20%
Se 196.026†	68.4	0.05304	mg/L	0.003466	0.05304	mg/L	0.003466	6.53%
Si 288.158†	95.4	0.06582	mg/L	0.001630	0.06582	mg/L	0.001630	2.48%
Sn 189.927†	47.4	0.01124	mg/L	0.000801	0.01124	mg/L	0.000801	7.13%
Sr 421.552†	766.8	0.00106	mg/L	0.000008	0.00106	mg/L	0.000008	0.75%
Ti 334.903†	157.4	0.00597	mg/L	0.000222	0.00597	mg/L	0.000222	3.73%
Tl 190.801†	58.7	0.05472	mg/L	0.003241	0.05472	mg/L	0.003241	5.92%
V 292.402†	831.6	0.00316	mg/L	0.000169	0.00316	mg/L	0.000169	5.34%
Zn 206.200†	5.8	0.00580	mg/L	0.000900	0.00580	mg/L	0.000900	15.51%

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

Autosampler Location: 9
Date Collected: 8/7/2006 11:57:55 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	159.0 kPa	0.50 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1496292.6	92.36	%	0.105				0.11%
ScR 361.383	205586.0	101.2	%	0.23				0.23%
Ag 328.068†	-2897.0	-0.00150	mg/L	0.000177	-0.00150	mg/L	0.000177	11.74%
Al 308.215†	280089.3	203.6	mg/L	0.67	203.6	mg/L	0.67	0.33%
As 188.979†	40.5	0.02037	mg/L	0.004283	0.02037	mg/L	0.004283	21.03%
B 249.677†	-6.1	-0.00201	mg/L	0.001637	-0.00201	mg/L	0.001637	81.56%
Ba 233.527†	49.8	0.00039	mg/L	0.000529	0.00039	mg/L	0.000529	137.32%
Be 313.042†	15.6	0.00002	mg/L	0.000029	0.00002	mg/L	0.000029	136.52%
Ca 317.933†	2153445.7	100.4	mg/L	0.41	100.4	mg/L	0.41	0.41%
Cd 228.802†	39.2	-0.00084	mg/L	0.000124	-0.00084	mg/L	0.000124	14.75%
Co 228.616†	-23.4	-0.00194	mg/L	0.000041	-0.00194	mg/L	0.000041	2.13%
Cr 267.716†	-5.0	0.00059	mg/L	0.000469	0.00059	mg/L	0.000469	79.43%
Cu 324.752†	-4460.7	0.00117	mg/L	0.000118	0.00117	mg/L	0.000118	10.08%
Fe 273.955†	201500.7	201.7	mg/L	0.07	201.7	mg/L	0.07	0.04%
K 766.490†	99.8	0.07144	mg/L	0.038992	0.07144	mg/L	0.038992	54.58%
Mg 279.077†	152510.1	102.6	mg/L	0.37	102.6	mg/L	0.37	0.36%
Mn 257.610†	113.3	0.00018	mg/L	0.000251	0.00018	mg/L	0.000251	141.98%
Mo 202.031†	38.3	0.00592	mg/L	0.000116	0.00592	mg/L	0.000116	1.96%
Na 589.592†	170.1	0.02627	mg/L	0.004796	0.02627	mg/L	0.004796	18.26%
Na 330.237†	40.4	0.4481	mg/L	0.75413	0.4481	mg/L	0.75413	168.31%
Ni 231.604†	-11.8	-0.00591	mg/L	0.000667	-0.00591	mg/L	0.000667	11.28%
Pb 220.353†	-214.7	0.01435	mg/L	0.000433	0.01435	mg/L	0.000433	3.02%
Sb 206.836†	20.9	0.01959	mg/L	0.002914	0.01959	mg/L	0.002914	14.88%
Se 196.026†	-95.8	-0.07434	mg/L	0.003220	-0.07434	mg/L	0.003220	4.33%
Si 288.158†	-30.2	-0.02082	mg/L	0.006390	-0.02082	mg/L	0.006390	30.69%
Sn 189.927†	-78.7	-0.00339	mg/L	0.002062	-0.00339	mg/L	0.002062	60.79%
Sr 421.552†	886.5	0.00122	mg/L	0.000069	0.00122	mg/L	0.000069	5.61%
Ti 334.903†	157.7	0.00598	mg/L	0.000801	0.00598	mg/L	0.000801	13.40%
Tl 190.801†	-29.1	-0.02707	mg/L	0.003614	-0.02707	mg/L	0.003614	13.35%
V 292.402†	584.3	0.00219	mg/L	0.000084	0.00219	mg/L	0.000084	3.83%
Zn 206.200†	2.4	-0.00170	mg/L	0.002259	-0.00170	mg/L	0.002259	132.69%

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

Autosampler Location: 10
Date Collected: 8/7/2006 12:04:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	159.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1488508.5	91.88	%	0.589				0.64%
ScR 361.383	203293.0	100.1	%	0.94				0.94%
Ag 328.068†	302211.2	1.040	mg/L	0.0023	1.040	mg/L	0.0023	0.22%
Al 308.215†	279310.9	203.0	mg/L	1.10	203.0	mg/L	1.10	0.54%
As 188.979†	984.4	1.052	mg/L	0.0076	1.052	mg/L	0.0076	0.72%
B 249.677†	-17.2	-0.00389	mg/L	0.000293	-0.00389	mg/L	0.000293	7.53%
Ba 233.527†	3421.4	1.010	mg/L	0.0065	1.010	mg/L	0.0065	0.64%
Be 313.042†	653041.1	1.029	mg/L	0.0070	1.029	mg/L	0.0070	0.68%
Ca 317.933†	2142575.0	99.88	mg/L	0.670	99.88	mg/L	0.670	0.67%
Cd 228.802†	32773.9	1.047	mg/L	0.0016	1.047	mg/L	0.0016	0.15%
Co 228.616†	34310.5	0.9799	mg/L	0.00552	0.9799	mg/L	0.00552	0.56%
Cr 267.716†	8150.3	0.9852	mg/L	0.00783	0.9852	mg/L	0.00783	0.79%
Cu 324.752†	281122.4	1.092	mg/L	0.0015	1.092	mg/L	0.0015	0.13%
Fe 273.955†	200222.8	200.4	mg/L	1.30	200.4	mg/L	1.30	0.65%
K 766.490†	276.1	0.1977	mg/L	0.01008	0.1977	mg/L	0.01008	5.10%
Mg 279.077†	151095.5	101.7	mg/L	0.38	101.7	mg/L	0.38	0.38%
Mn 257.610†	27759.4	0.9661	mg/L	0.00751	0.9661	mg/L	0.00751	0.78%
Mo 202.031†	39.2	0.00602	mg/L	0.001147	0.00602	mg/L	0.001147	19.05%
Na 589.592†	192.7	0.02977	mg/L	0.001700	0.02977	mg/L	0.001700	5.71%
Na 330.237†	10.0	-0.8046	mg/L	0.18522	-0.8046	mg/L	0.18522	23.02%
Ni 231.604†	1937.4	0.9776	mg/L	0.01007	0.9776	mg/L	0.01007	1.03%
Pb 220.353†	8179.8	0.9874	mg/L	0.00462	0.9874	mg/L	0.00462	0.47%
Sb 206.836†	1176.9	1.104	mg/L	0.0067	1.104	mg/L	0.0067	0.61%
Se 196.026†	1233.9	0.9562	mg/L	0.00939	0.9562	mg/L	0.00939	0.98%
Si 288.158†	-50.5	-0.03278	mg/L	0.005598	-0.03278	mg/L	0.005598	17.08%
Sn 189.927†	-89.6	-0.00396	mg/L	0.002278	-0.00396	mg/L	0.002278	57.58%
Sr 421.552†	976.7	0.00135	mg/L	0.000035	0.00135	mg/L	0.000035	2.59%
Ti 334.903†	338.9	0.01265	mg/L	0.000139	0.01265	mg/L	0.000139	1.10%
Tl 190.801†	1024.5	0.9484	mg/L	0.00136	0.9484	mg/L	0.00136	0.14%
V 292.402†	281106.2	1.061	mg/L	0.0022	1.061	mg/L	0.0022	0.21%
Zn 206.200†	986.3	0.9751	mg/L	0.01013	0.9751	mg/L	0.01013	1.04%

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

Autosampler Location: 7
Date Collected: 8/7/2006 12:10:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	159.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1537300.8	94.89	%	1.094				1.15%
ScR 361.383	202817.1	99.88	%	0.228				0.23%
Ag 328.068†	292346.4	0.9976	mg/L	0.01188	0.9976	mg/L	0.01188	1.19%
Al 308.215†	2790.8	1.991	mg/L	0.0079	1.991	mg/L	0.0079	0.40%
As 188.979†	1839.5	2.008	mg/L	0.0243	2.008	mg/L	0.0243	1.21%
B 249.677†	2909.6	0.9667	mg/L	0.00451	0.9667	mg/L	0.00451	0.47%
Ba 233.527†	3241.5	0.9702	mg/L	0.00123	0.9702	mg/L	0.00123	0.13%
Be 313.042†	623225.6	0.9818	mg/L	0.00419	0.9818	mg/L	0.00419	0.43%
Ca 317.933†	43789.4	2.041	mg/L	0.0089	2.041	mg/L	0.0089	0.43%
Cd 228.802†	32119.3	1.027	mg/L	0.0125	1.027	mg/L	0.0125	1.22%
Co 228.616†	34636.5	0.9891	mg/L	0.01186	0.9891	mg/L	0.01186	1.20%
Cr 267.716†	7859.8	0.9485	mg/L	0.00125	0.9485	mg/L	0.00125	0.13%
Cu 324.752†	272833.9	1.042	mg/L	0.0132	1.042	mg/L	0.0132	1.26%
Fe 273.955†	2008.2	2.008	mg/L	0.0036	2.008	mg/L	0.0036	0.18%
K 766.490†	28585.8	20.47	mg/L	0.156	20.47	mg/L	0.156	0.76%
Mg 279.077†	2975.5	2.009	mg/L	0.0037	2.009	mg/L	0.0037	0.18%
Mn 257.610†	27396.9	0.9574	mg/L	0.00478	0.9574	mg/L	0.00478	0.50%
Mo 202.031†	10060.3	1.010	mg/L	0.0153	1.010	mg/L	0.0153	1.51%
Na 589.592†	325191.4	50.24	mg/L	0.215	50.24	mg/L	0.215	0.43%
Na 330.237†	1564.6	52.07	mg/L	0.322	52.07	mg/L	0.322	0.62%
Ni 231.604†	1958.6	0.9889	mg/L	0.00452	0.9889	mg/L	0.00452	0.46%
Pb 220.353†	17380.3	2.014	mg/L	0.0306	2.014	mg/L	0.0306	1.52%
Sb 206.836†	2220.2	2.106	mg/L	0.0225	2.106	mg/L	0.0225	1.07%
Se 196.026†	2596.5	2.014	mg/L	0.0180	2.014	mg/L	0.0180	0.89%
Si 288.158†	2931.0	2.023	mg/L	0.0011	2.023	mg/L	0.0011	0.05%
Sn 189.927†	4014.6	0.9456	mg/L	0.00819	0.9456	mg/L	0.00819	0.87%
Sr 421.552†	717508.9	0.9903	mg/L	0.00375	0.9903	mg/L	0.00375	0.38%
Ti 334.903†	26705.1	1.012	mg/L	0.0057	1.012	mg/L	0.0057	0.56%
Tl 190.801†	2135.4	1.986	mg/L	0.0222	1.986	mg/L	0.0222	1.12%
V 292.402†	265994.0	1.004	mg/L	0.0128	1.004	mg/L	0.0128	1.28%
Zn 206.200†	1008.0	1.001	mg/L	0.0023	1.001	mg/L	0.0023	0.23%

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

Autosampler Location: 1
Date Collected: 8/7/2006 12:17:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	159.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1551099.5	95.75	%	0.463				0.48%
ScR 361.383	201147.0	99.06	%	0.328				0.33%
Ag 328.068†	64.8	0.00022	mg/L	0.000106	0.00022	mg/L	0.000106	48.06%
Al 308.215†	-4.8	-0.00354	mg/L	0.010032	-0.00354	mg/L	0.010032	283.59%
As 188.979†	7.3	0.00796	mg/L	0.002158	0.00796	mg/L	0.002158	27.10%
B 249.677†	23.1	0.00765	mg/L	0.001808	0.00765	mg/L	0.001808	23.64%
Ba 233.527†	-0.4	-0.00012	mg/L	0.000520	-0.00012	mg/L	0.000520	431.13%
Be 313.042†	18.5	0.00003	mg/L	0.000025	0.00003	mg/L	0.000025	84.73%
Ca 317.933†	21.3	0.00099	mg/L	0.000924	0.00099	mg/L	0.000924	93.19%
Cd 228.802†	8.3	0.00026	mg/L	0.000144	0.00026	mg/L	0.000144	56.24%
Co 228.616†	2.6	0.00007	mg/L	0.000308	0.00007	mg/L	0.000308	428.99%
Cr 267.716†	15.7	0.00190	mg/L	0.001106	0.00190	mg/L	0.001106	58.22%
Cu 324.752†	248.3	0.00095	mg/L	0.000064	0.00095	mg/L	0.000064	6.71%
Fe 273.955†	1.6	0.00165	mg/L	0.004023	0.00165	mg/L	0.004023	244.40%
K 766.490†	108.6	0.07775	mg/L	0.041657	0.07775	mg/L	0.041657	53.58%
Mg 279.077†	-2.6	-0.00175	mg/L	0.008189	-0.00175	mg/L	0.008189	468.56%
Mn 257.610†	8.5	0.00030	mg/L	0.000036	0.00030	mg/L	0.000036	12.17%
Mo 202.031†	8.1	0.00081	mg/L	0.000318	0.00081	mg/L	0.000318	39.30%
Na 589.592†	58.4	0.00902	mg/L	0.002730	0.00902	mg/L	0.002730	30.26%
Na 330.237†	-1.3	-0.04479	mg/L	0.371887	-0.04479	mg/L	0.371887	830.27%
Ni 231.604†	-0.1	-0.00006	mg/L	0.001648	-0.00006	mg/L	0.001648	>999.9%
Pb 220.353†	33.1	0.00383	mg/L	0.000419	0.00383	mg/L	0.000419	10.93%
Sb 206.836†	0.5	0.00051	mg/L	0.003061	0.00051	mg/L	0.003061	596.75%
Se 196.026†	-0.4	-0.00029	mg/L	0.001540	-0.00029	mg/L	0.001540	529.21%
Si 288.158†	6.9	0.00475	mg/L	0.005753	0.00475	mg/L	0.005753	121.01%
Sn 189.927†	9.3	0.00218	mg/L	0.000676	0.00218	mg/L	0.000676	31.04%
Sr 421.552†	12.5	0.00002	mg/L	0.000019	0.00002	mg/L	0.000019	112.62%
Ti 334.903†	23.5	0.00089	mg/L	0.000761	0.00089	mg/L	0.000761	85.41%
Tl 190.801†	1.4	0.00134	mg/L	0.001498	0.00134	mg/L	0.001498	111.58%
V 292.402†	40.2	0.00016	mg/L	0.000159	0.00016	mg/L	0.000159	96.73%
Zn 206.200†	4.6	0.00457	mg/L	0.001960	0.00457	mg/L	0.001960	42.85%

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Analysis Begun

Start Time: 8/7/2006 12:22:13 PM
Plasma On Time: 8/7/2006 9:54:30 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\0807A.sif
Batch ID:
Results Data Set: PE060807
Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 1
Autosampler Location: 21
Sample ID: JP87 MB2 WMN
Date Collected: 8/7/2006 12:22:13 PM
Analyst: BLW
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution: 1X
Sample Prep Vol:

Nebulizer Parameters: JP87 MB2 WMN

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

PE

Mean Data: JP87 MB2 WMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1603715.8	98.99	%	0.942				0.95%
ScR 361.383	208026.7	102.4	%	0.46				0.45%
Ag 328.068†	-56.5	-0.00019	mg/L	0.000259	-0.00019	mg/L	0.000259	134.41%
Al 308.215†	34.7	0.02519	mg/L	0.014543	0.02519	mg/L	0.014543	57.73%
As 188.979†	10.7	0.01166	mg/L	0.002425	0.01166	mg/L	0.002425	20.80%
B 249.677†	9.4	0.00311	mg/L	0.001598	0.00311	mg/L	0.001598	51.42%
Ba 233.527†	-2.7	-0.00080	mg/L	0.000511	-0.00080	mg/L	0.000511	64.20%
Be 313.042†	5.8	0.00001	mg/L	0.000041	0.00001	mg/L	0.000041	467.61%
Ca 317.933†	18.1	0.00085	mg/L	0.000094	0.00085	mg/L	0.000094	11.10%
Cd 228.802†	7.4	0.00022	mg/L	0.000054	0.00022	mg/L	0.000054	24.61%
Co 228.616†	4.3	0.00012	mg/L	0.000428	0.00012	mg/L	0.000428	353.15%
Cr 267.716†	10.3	0.00124	mg/L	0.001246	0.00124	mg/L	0.001246	100.46%
Cu 324.752†	46.9	0.00018	mg/L	0.000194	0.00018	mg/L	0.000194	108.71%
Fe 273.955†	-3.8	-0.00382	mg/L	0.003705	-0.00382	mg/L	0.003705	96.93%
K 766.490†	42.4	0.03036	mg/L	0.025328	0.03036	mg/L	0.025328	83.43%
Mg 279.077†	6.4	0.00435	mg/L	0.008125	0.00435	mg/L	0.008125	186.93%
Mn 257.610†	1.2	0.00004	mg/L	0.000237	0.00004	mg/L	0.000237	548.90%
Mo 202.031†	5.9	0.00059	mg/L	0.000323	0.00059	mg/L	0.000323	54.81%
Na 589.592†	70.1	0.01083	mg/L	0.003834	0.01083	mg/L	0.003834	35.41%
Na 330.237†	-4.4	-0.1463	mg/L	0.17003	-0.1463	mg/L	0.17003	116.23%
Ni 231.604†	-3.4	-0.00170	mg/L	0.002957	-0.00170	mg/L	0.002957	174.27%
Pb 220.353†	12.0	0.00139	mg/L	0.000289	0.00139	mg/L	0.000289	20.79%
Sb 206.836†	-0.9	-0.00083	mg/L	0.001019	-0.00083	mg/L	0.001019	123.10%
Se 196.026†	15.3	0.01189	mg/L	0.003674	0.01189	mg/L	0.003674	30.91%
Si 288.158†	-1.0	-0.00066	mg/L	0.003378	-0.00066	mg/L	0.003378	510.61%
Sn 189.927†	3.1	0.00072	mg/L	0.000508	0.00072	mg/L	0.000508	70.59%
Sr 421.552†	17.6	0.00002	mg/L	0.000033	0.00002	mg/L	0.000033	137.05%
Ti 334.903†	34.7	0.00132	mg/L	0.000769	0.00132	mg/L	0.000769	58.43%
Tl 190.801†	4.9	0.00455	mg/L	0.001735	0.00455	mg/L	0.001735	38.12%
V 292.402†	40.6	0.00016	mg/L	0.000230	0.00016	mg/L	0.000230	142.69%
Zn 206.200†	4.4	0.00433	mg/L	0.001569	0.00433	mg/L	0.001569	36.27%

Sequence No.: 2
Sample ID: JP87 A WMN
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 22
Date Collected: 8/7/2006 12:28:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JP87 A WMN

Analyte	Back Pressure	Flow
All	159.0 kPa	0.50 L/min

RE

Mean Data: JP87 A WMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1586862.2	97.95	%	0.549				0.56%
ScR 361.383	212349.1	104.6	%	0.17				0.16%
Ag 328.068†	155.9	0.00053	mg/L	0.000154	0.00053	mg/L	0.000154	28.95%
Al 308.215†	12.7	0.00924	mg/L	0.022894	0.00924	mg/L	0.022894	247.67%
As 188.979†	8.7	0.00954	mg/L	0.005343	0.00954	mg/L	0.005343	56.00%
B 249.677†	103813.0	34.37	mg/L	0.114	34.37	mg/L	0.114	0.33%
Ba 233.527†	0.0	0.00001	mg/L	0.001225	0.00001	mg/L	0.001225	>999.9%
Be 313.042†	-12.0	-0.00002	mg/L	0.000009	-0.00002	mg/L	0.000009	44.53%
Ca 317.933†	1.5	0.00007	mg/L	0.001405	0.00007	mg/L	0.001405	>999.9%
Cd 228.802†	2.6	0.00007	mg/L	0.000065	0.00007	mg/L	0.000065	92.08%
Co 228.616†	12.9	0.00036	mg/L	0.000118	0.00036	mg/L	0.000118	32.39%
Cr 267.716†	11.0	0.00133	mg/L	0.000738	0.00133	mg/L	0.000738	55.44%
Cu 324.752†	178.0	0.00068	mg/L	0.000323	0.00068	mg/L	0.000323	47.51%
Fe 273.955†	-3.0	-0.00299	mg/L	0.000797	-0.00299	mg/L	0.000797	26.61%
K 766.490†	32798.6	23.49	mg/L	0.035	23.49	mg/L	0.035	0.15%
Mg 279.077†	-1.9	-0.00127	mg/L	0.012221	-0.00127	mg/L	0.012221	961.73%
Mn 257.610†	4.4	0.00015	mg/L	0.000261	0.00015	mg/L	0.000261	169.03%
Mo 202.031†	5.1	0.00051	mg/L	0.000149	0.00051	mg/L	0.000149	29.26%
Na 589.592†	433040.2	66.90	mg/L	0.121	66.90	mg/L	0.121	0.18%
Na 330.237†	2053.6	68.37	mg/L	0.713	68.37	mg/L	0.713	1.04%
Ni 231.604†	-1.3	-0.00066	mg/L	0.002087	-0.00066	mg/L	0.002087	315.50%
Pb 220.353†	15.0	0.00174	mg/L	0.000417	0.00174	mg/L	0.000417	24.03%
Sb 206.836†	-2.2	-0.00206	mg/L	0.000926	-0.00206	mg/L	0.000926	44.98%
Se 196.026†	5.7	0.00444	mg/L	0.004141	0.00444	mg/L	0.004141	93.17%
Si 288.158†	413.0	0.2848	mg/L	0.11726	0.2848	mg/L	0.11726	41.18%
Sn 189.927†	8.7	0.00205	mg/L	0.001074	0.00205	mg/L	0.001074	52.50%
Sr 421.552†	-21.2	-0.00003	mg/L	0.000047	-0.00003	mg/L	0.000047	160.65%
Ti 334.903†	80.5	0.00305	mg/L	0.000690	0.00305	mg/L	0.000690	22.59%
Tl 190.801†	1.6	0.00152	mg/L	0.001083	0.00152	mg/L	0.001083	71.02%
V 292.402†	41.0	0.00016	mg/L	0.000083	0.00016	mg/L	0.000083	51.47%
Zn 206.200†	3.0	0.00299	mg/L	0.000702	0.00299	mg/L	0.000702	23.46%

Sequence No.: 3
Sample ID: JP87 B WMN
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 23
Date Collected: 8/7/2006 12:35:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JP87 B WMN

Analyte	Back Pressure	Flow
All	159.0 kPa	0.50 L/min

PE

Mean Data: JP87 B WMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1581080.8	97.60	%	0.407				0.42%
ScR 361.383	209831.6	103.3	%	0.29				0.28%
Ag 328.068†	-124.3	-0.00042	mg/L	0.000092	-0.00042	mg/L	0.000092	21.73%
Al 308.215†	8.2	0.00586	mg/L	0.010112	0.00586	mg/L	0.010112	172.47%
As 188.979†	15.8	0.01423	mg/L	0.001833	0.01423	mg/L	0.001833	12.88%
B 249.677†	565.4	0.1872	mg/L	0.01615	0.1872	mg/L	0.01615	8.63%
Ba 233.527†	-1.3	-0.00039	mg/L	0.001123	-0.00039	mg/L	0.001123	289.06%
Be 313.042†	11.9	0.00002	mg/L	0.000030	0.00002	mg/L	0.000030	168.58%
Ca 317.933†	1171542.0	54.61	mg/L	0.157	54.61	mg/L	0.157	0.29%
Cd 228.802†	-6.0	-0.00022	mg/L	0.000049	-0.00022	mg/L	0.000049	22.59%
Co 228.616†	-8.9	-0.00026	mg/L	0.000261	-0.00026	mg/L	0.000261	101.35%
Cr 267.716†	38.1	-0.00053	mg/L	0.000525	-0.00053	mg/L	0.000525	99.57%
Cu 324.752†	272.0	0.00075	mg/L	0.000201	0.00075	mg/L	0.000201	26.94%
Fe 273.955†	-2.6	-0.00260	mg/L	0.001173	-0.00260	mg/L	0.001173	45.19%
K 766.490†	136.2	0.09755	mg/L	0.038044	0.09755	mg/L	0.038044	39.00%
Mg 279.077†	49747.9	33.52	mg/L	0.387	33.52	mg/L	0.387	1.16%
Mn 257.610†	2.6	-0.00078	mg/L	0.000182	-0.00078	mg/L	0.000182	23.26%
Mo 202.031†	52.4	0.00447	mg/L	0.000369	0.00447	mg/L	0.000369	8.25%
Na 589.592†	147.4	0.02277	mg/L	0.006296	0.02277	mg/L	0.006296	27.65%
Na 330.237†	21.8	0.2371	mg/L	0.59264	0.2371	mg/L	0.59264	249.92%
Ni 231.604†	-5.1	-0.00255	mg/L	0.000885	-0.00255	mg/L	0.000885	34.74%
Pb 220.353†	28.7	0.00333	mg/L	0.001036	0.00333	mg/L	0.001036	31.07%
Sb 206.836†	3.9	0.00343	mg/L	0.002962	0.00343	mg/L	0.002962	86.44%
Se 196.026†	-7.8	-0.00608	mg/L	0.007623	-0.00608	mg/L	0.007623	125.45%
Si 288.158†	-3.1	-0.00213	mg/L	0.003835	-0.00213	mg/L	0.003835	180.05%
Sn 189.927†	-57.5	-0.00469	mg/L	0.001455	-0.00469	mg/L	0.001455	31.02%
Sr 421.552†	2838.1	0.00392	mg/L	0.000137	0.00392	mg/L	0.000137	3.49%
Ti 334.903†	76.4	0.00289	mg/L	0.000276	0.00289	mg/L	0.000276	9.56%
Tl 190.801†	-16.4	-0.01525	mg/L	0.002124	-0.01525	mg/L	0.002124	13.93%
V 292.402†	143.3	0.00057	mg/L	0.000095	0.00057	mg/L	0.000095	16.62%
Zn 206.200†	-0.5	0.00018	mg/L	0.001410	0.00018	mg/L	0.001410	796.00%

Sequence No.: 4
Sample ID: JP87 AF WMN
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 24
Date Collected: 8/7/2006 12:41:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JP87 AF WMN

Analyte	Back Pressure	Flow
All	159.0 kPa	0.50 L/min

PE

Mean Data: JP87 AF WMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1616389.5	99.78	%	0.858				0.86%
ScR 361.383	213440.7	105.1	%	0.32				0.30%
Ag 328.068†	21.2	0.00007	mg/L	0.000067	0.00007	mg/L	0.000067	90.10%
Al 308.215†	204.5	0.1486	mg/L	0.02228	0.1486	mg/L	0.02228	15.00%
As 188.979†	-4.3	-0.00476	mg/L	0.003177	-0.00476	mg/L	0.003177	66.72%
B 249.677†	212.8	0.07044	mg/L	0.006060	0.07044	mg/L	0.006060	8.60%
Ba 233.527†	4.5	0.00135	mg/L	0.000451	0.00135	mg/L	0.000451	33.42%
Be 313.042†	-118.6	-0.00019	mg/L	0.000060	-0.00019	mg/L	0.000060	32.00%
Ca 317.933†	331.2	0.01544	mg/L	0.001392	0.01544	mg/L	0.001392	9.02%
Cd 228.802†	-13.0	-0.00041	mg/L	0.000105	-0.00041	mg/L	0.000105	25.58%
Co 228.616†	16.9	0.00044	mg/L	0.000086	0.00044	mg/L	0.000086	19.65%
Cr 267.716†	14.2	0.00172	mg/L	0.000496	0.00172	mg/L	0.000496	28.89%
Cu 324.752†	141.8	0.00054	mg/L	0.000091	0.00054	mg/L	0.000091	16.84%
Fe 273.955†	36.2	0.03621	mg/L	0.000807	0.03621	mg/L	0.000807	2.23%
K 766.490†	239.8	0.1717	mg/L	0.00620	0.1717	mg/L	0.00620	3.61%
Mg 279.077†	26.3	0.01773	mg/L	0.003390	0.01773	mg/L	0.003390	19.12%
Mn 257.610†	11.5	0.00040	mg/L	0.000038	0.00040	mg/L	0.000038	9.56%
Mo 202.031†	7.0	0.00070	mg/L	0.000191	0.00070	mg/L	0.000191	27.16%
Na 589.592†	836401.3	129.2	mg/L	0.24	129.2	mg/L	0.24	0.19%
Na 330.237†	4029.2	134.1	mg/L	0.38	134.1	mg/L	0.38	0.28%
Ni 231.604†	-3.6	-0.00183	mg/L	0.001071	-0.00183	mg/L	0.001071	58.66%
Pb 220.353†	-4.7	-0.00051	mg/L	0.000673	-0.00051	mg/L	0.000673	130.79%
Sb 206.836†	2.4	0.00228	mg/L	0.001461	0.00228	mg/L	0.001461	63.94%
Se 196.026†	12.1	0.00937	mg/L	0.005106	0.00937	mg/L	0.005106	54.47%
Si 288.158†	115090.9	79.36	mg/L	0.756	79.36	mg/L	0.756	0.95%
Sn 189.927†	9.6	0.00225	mg/L	0.000370	0.00225	mg/L	0.000370	16.44%
Sr 421.552†	418.4	0.00058	mg/L	0.000010	0.00058	mg/L	0.000010	1.72%
Ti 334.903†	707.1	0.02683	mg/L	0.005291	0.02683	mg/L	0.005291	19.72%
Tl 190.801†	0.4	0.00033	mg/L	0.001580	0.00033	mg/L	0.001580	485.38%
V 292.402†	77.6	0.00029	mg/L	0.000024	0.00029	mg/L	0.000024	8.34%
Zn 206.200†	3.9	0.00385	mg/L	0.000913	0.00385	mg/L	0.000913	23.75%

Sequence No.: 5
Sample ID: JP87 R WMN
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 25
Date Collected: 8/7/2006 12:48:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JP87 R WMN

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

RE
Tenv

Mean Data: JP87 R WMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1636296.4	101.0	%	1.06				1.05%
ScR 361.383	215596.4	106.2	%	1.02				0.97%
Ag 328.068†	-37.7	-0.00013	mg/L	0.000171	-0.00013	mg/L	0.000171	133.23%
Al 308.215†	17.2	0.01246	mg/L	0.013960	0.01246	mg/L	0.013960	112.04%
As 188.979†	8.9	0.00968	mg/L	0.001191	0.00968	mg/L	0.001191	12.31%
B 249.677†	3527.5	1.168	mg/L	0.0044	1.168	mg/L	0.0044	0.38%
Ba 233.527†	-1.8	-0.00054	mg/L	0.000352	-0.00054	mg/L	0.000352	65.30%
Be 313.042†	6.0	0.00001	mg/L	0.000023	0.00001	mg/L	0.000023	250.76%
Ca 317.933†	36.2	0.00169	mg/L	0.001414	0.00169	mg/L	0.001414	83.79%
Cd 228.802†	4.4	0.00013	mg/L	0.000037	0.00013	mg/L	0.000037	28.90%
Co 228.616†	4.4	0.00012	mg/L	0.000131	0.00012	mg/L	0.000131	105.24%
Cr 267.716†	9.9	0.00119	mg/L	0.000272	0.00119	mg/L	0.000272	22.86%
Cu 324.752†	75.5	0.00029	mg/L	0.000256	0.00029	mg/L	0.000256	88.96%
Fe 273.955†	0.3	0.00026	mg/L	0.001567	0.00026	mg/L	0.001567	595.74%
K 766.490†	6.1	0.00439	mg/L	0.015491	0.00439	mg/L	0.015491	353.09%
Mg 279.077†	25.9	0.01746	mg/L	0.003013	0.01746	mg/L	0.003013	17.25%
Mn 257.610†	0.5	0.00002	mg/L	0.000115	0.00002	mg/L	0.000115	732.28%
Mo 202.031†	6.0	0.00060	mg/L	0.000258	0.00060	mg/L	0.000258	42.89%
Na 589.592†	436.8	0.06748	mg/L	0.006740	0.06748	mg/L	0.006740	9.99%
Na 330.237†	-0.9	-0.03058	mg/L	0.316327	-0.03058	mg/L	0.316327	>999.9%
Ni 231.604†	-1.9	-0.00094	mg/L	0.000589	-0.00094	mg/L	0.000589	62.36%
Pb 220.353†	7.5	0.00087	mg/L	0.000676	0.00087	mg/L	0.000676	77.67%
Sb 206.836†	-0.7	-0.00071	mg/L	0.001007	-0.00071	mg/L	0.001007	142.50%
Se 196.026†	9.1	0.00708	mg/L	0.000841	0.00708	mg/L	0.000841	11.37%
Si 288.158†	39.7	0.02736	mg/L	0.004588	0.02736	mg/L	0.004588	16.77%
Sn 189.927†	-0.4	-0.00009	mg/L	0.000758	-0.00009	mg/L	0.000758	886.57%
Sr 421.552†	87.6	0.00012	mg/L	0.000055	0.00012	mg/L	0.000055	45.88%
Ti 334.903†	13.5	0.00051	mg/L	0.000482	0.00051	mg/L	0.000482	94.15%
Tl 190.801†	3.1	0.00285	mg/L	0.002369	0.00285	mg/L	0.002369	83.17%
V 292.402†	77.8	0.00030	mg/L	0.000088	0.00030	mg/L	0.000088	29.43%
Zn 206.200†	4.3	0.00431	mg/L	0.001132	0.00431	mg/L	0.001132	26.27%

Sequence No.: 6
Sample ID: CV 2
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/7/2006 12:54:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1552715.4	95.85	%	0.668				0.70%
ScR 361.383	206732.0	101.8	%	0.71				0.69%
Ag 328.068†	294637.0	1.005	mg/L	0.0047	1.005	mg/L	0.0047	0.47%
Al 308.215†	2777.6	1.981	mg/L	0.0074	1.981	mg/L	0.0074	0.37%
As 188.979†	1859.6	2.030	mg/L	0.0179	2.030	mg/L	0.0179	0.88%
B 249.677†	3042.2	1.011	mg/L	0.0051	1.011	mg/L	0.0051	0.51%
Ba 233.527†	3241.1	0.9701	mg/L	0.00566	0.9701	mg/L	0.00566	0.58%
Be 313.042†	626101.8	0.9863	mg/L	0.00135	0.9863	mg/L	0.00135	0.14%
Ca 317.933†	44014.5	2.052	mg/L	0.0039	2.052	mg/L	0.0039	0.19%
Cd 228.802†	32111.0	1.026	mg/L	0.0055	1.026	mg/L	0.0055	0.54%
Co 228.616†	34846.4	0.9951	mg/L	0.00537	0.9951	mg/L	0.00537	0.54%
Cr 267.716†	7876.6	0.9506	mg/L	0.00550	0.9506	mg/L	0.00550	0.58%
Cu 324.752†	274826.4	1.049	mg/L	0.0039	1.049	mg/L	0.0039	0.37%
Fe 273.955†	2007.3	2.007	mg/L	0.0100	2.007	mg/L	0.0100	0.50%
K 766.490†	28506.4	20.41	mg/L	0.041	20.41	mg/L	0.041	0.20%
Mg 279.077†	2994.7	2.022	mg/L	0.0026	2.022	mg/L	0.0026	0.13%
Mn 257.610†	27423.1	0.9583	mg/L	0.00215	0.9583	mg/L	0.00215	0.22%
Mo 202.031†	9922.3	0.9962	mg/L	0.00808	0.9962	mg/L	0.00808	0.81%
Na 589.592†	323748.2	50.01	mg/L	0.157	50.01	mg/L	0.157	0.31%
Na 330.237†	1560.7	51.94	mg/L	0.637	51.94	mg/L	0.637	1.23%
Ni 231.604†	1970.3	0.9948	mg/L	0.00687	0.9948	mg/L	0.00687	0.69%
Pb 220.353†	17133.4	1.986	mg/L	0.0177	1.986	mg/L	0.0177	0.89%
Sb 206.836†	2244.6	2.129	mg/L	0.0194	2.129	mg/L	0.0194	0.91%
Se 196.026†	2635.8	2.044	mg/L	0.0116	2.044	mg/L	0.0116	0.57%
Si 288.158†	2921.7	2.017	mg/L	0.0114	2.017	mg/L	0.0114	0.56%
Sn 189.927†	4085.2	0.9622	mg/L	0.01015	0.9622	mg/L	0.01015	1.06%
Sr 421.552†	714658.9	0.9864	mg/L	0.00231	0.9864	mg/L	0.00231	0.23%
Ti 334.903†	26732.0	1.013	mg/L	0.0030	1.013	mg/L	0.0030	0.30%
Tl 190.801†	2149.5	1.999	mg/L	0.0167	1.999	mg/L	0.0167	0.84%
V 292.402†	268780.1	1.015	mg/L	0.0039	1.015	mg/L	0.0039	0.39%
Zn 206.200†	1017.1	1.010	mg/L	0.0082	1.010	mg/L	0.0082	0.82%

Sequence No.: 7
Sample ID: CB 2
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/7/2006 1:01:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1573577.3	97.13	%	0.518				0.53%
ScR 361.383	204238.3	100.6	%	0.92				0.92%
Ag 328.068†	6.0	0.00002	mg/L	0.000305	0.00002	mg/L	0.000305	>999.9%
Al 308.215†	2.4	0.00174	mg/L	0.002625	0.00174	mg/L	0.002625	150.54%
As 188.979†	7.9	0.00864	mg/L	0.000590	0.00864	mg/L	0.000590	6.82%
B 249.677†	94.0	0.03114	mg/L	0.002642	0.03114	mg/L	0.002642	8.48%
Ba 233.527†	-0.7	-0.00022	mg/L	0.000792	-0.00022	mg/L	0.000792	364.43%
Be 313.042†	15.1	0.00002	mg/L	0.000030	0.00002	mg/L	0.000030	128.16%
Ca 317.933†	-19.7	-0.00092	mg/L	0.000906	-0.00092	mg/L	0.000906	98.65%
Cd 228.802†	2.5	0.00007	mg/L	0.000091	0.00007	mg/L	0.000091	133.38%
Co 228.616†	10.0	0.00028	mg/L	0.000085	0.00028	mg/L	0.000085	30.03%
Cr 267.716†	12.9	0.00156	mg/L	0.000155	0.00156	mg/L	0.000155	9.93%
Cu 324.752†	403.9	0.00154	mg/L	0.000254	0.00154	mg/L	0.000254	16.47%
Fe 273.955†	-0.6	-0.00062	mg/L	0.002486	-0.00062	mg/L	0.002486	401.85%
K 766.490†	101.7	0.07282	mg/L	0.070203	0.07282	mg/L	0.070203	96.41%
Mg 279.077†	-1.4	-0.00092	mg/L	0.009818	-0.00092	mg/L	0.009818	>999.9%
Mn 257.610†	5.6	0.00020	mg/L	0.000192	0.00020	mg/L	0.000192	97.97%
Mo 202.031†	8.9	0.00090	mg/L	0.000181	0.00090	mg/L	0.000181	20.14%
Na 589.592†	146.2	0.02258	mg/L	0.002305	0.02258	mg/L	0.002305	10.21%
Na 330.237†	6.6	0.2183	mg/L	0.34090	0.2183	mg/L	0.34090	156.16%
Ni 231.604†	0.4	0.00019	mg/L	0.000910	0.00019	mg/L	0.000910	485.02%
Pb 220.353†	25.7	0.00298	mg/L	0.000651	0.00298	mg/L	0.000651	21.89%
Sb 206.836†	1.5	0.00143	mg/L	0.000825	0.00143	mg/L	0.000825	57.52%
Se 196.026†	6.1	0.00475	mg/L	0.001209	0.00475	mg/L	0.001209	25.46%
Si 288.158†	4.1	0.00283	mg/L	0.001849	0.00283	mg/L	0.001849	65.25%
Sn 189.927†	9.7	0.00228	mg/L	0.000185	0.00228	mg/L	0.000185	8.12%
Sr 421.552†	-13.1	-0.00002	mg/L	0.000058	-0.00002	mg/L	0.000058	323.00%
Ti 334.903†	31.4	0.00119	mg/L	0.001150	0.00119	mg/L	0.001150	96.63%
Tl 190.801†	-0.9	-0.00087	mg/L	0.002744	-0.00087	mg/L	0.002744	316.58%
V 292.402†	79.2	0.00031	mg/L	0.000160	0.00031	mg/L	0.000160	51.94%
Zn 206.200†	2.9	0.00291	mg/L	0.001233	0.00291	mg/L	0.001233	42.34%

Sequence No.: 8
Sample ID: JQ77 MB SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 26
Date Collected: 8/7/2006 1:07:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ77 MB SWC

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JQ77 MB SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1613453.7	99.59	%	0.348				0.35%
ScR 361.383	212723.0	104.8	%	0.52				0.49%
Ag 328.068†	-17.1	-0.00006	mg/L	0.000163	-0.00012	mg/L	0.000326	280.96%
Al 308.215†	15.5	0.01122	mg/L	0.017861	0.02245	mg/L	0.035722	159.14%
As 188.979†	7.6	0.00827	mg/L	0.000451	0.01654	mg/L	0.000902	5.45%
B 249.677†	62.3	0.02064	mg/L	0.001601	0.04128	mg/L	0.003202	7.76%
Ba 233.527†	-4.3	-0.00130	mg/L	0.000507	-0.00259	mg/L	0.001014	39.09%
Be 313.042†	-46.8	-0.00007	mg/L	0.000022	-0.00015	mg/L	0.000044	29.76%
Ca 317.933†	655.5	0.03056	mg/L	0.001829	0.06112	mg/L	0.003657	5.98%
Cd 228.802†	6.5	0.00020	mg/L	0.000092	0.00039	mg/L	0.000185	47.14%
Co 228.616†	1.5	0.00004	mg/L	0.000085	0.00008	mg/L	0.000170	208.51%
Cr 267.716†	8.8	0.00106	mg/L	0.000614	0.00212	mg/L	0.001228	57.97%
Cu 324.752†	339.4	0.00130	mg/L	0.000107	0.00259	mg/L	0.000214	8.26%
Fe 273.955†	3.2	0.00324	mg/L	0.001376	0.00649	mg/L	0.002751	42.41%
K 766.490†	25.3	0.01811	mg/L	0.017118	0.03623	mg/L	0.034236	94.51%
Mg 279.077†	8.5	0.00575	mg/L	0.000767	0.01150	mg/L	0.001533	13.34%
Mn 257.610†	3.8	0.00013	mg/L	0.000132	0.00027	mg/L	0.000265	99.56%
Mo 202.031†	6.1	0.00061	mg/L	0.000182	0.00123	mg/L	0.000364	29.65%
Na 589.592†	119.4	0.01844	mg/L	0.006203	0.03688	mg/L	0.012406	33.64%
Na 330.237†	16.8	0.5575	mg/L	0.52030	1.115	mg/L	1.0406	93.33%
Ni 231.604†	-1.1	-0.00058	mg/L	0.003103	-0.00116	mg/L	0.006206	537.07%
Pb 220.353†	18.0	0.00209	mg/L	0.000437	0.00417	mg/L	0.000874	20.94%
Sb 206.836†	-1.5	-0.00144	mg/L	0.001322	-0.00288	mg/L	0.002643	91.73%
Se 196.026†	7.1	0.00553	mg/L	0.003257	0.01107	mg/L	0.006515	58.87%
Si 288.158†	11.0	0.00761	mg/L	0.001011	0.01522	mg/L	0.002023	13.29%
Sn 189.927†	5.0	0.00117	mg/L	0.000395	0.00234	mg/L	0.000791	33.77%
Sr 421.552†	159.1	0.00022	mg/L	0.000024	0.00044	mg/L	0.000048	10.91%
Ti 334.903†	38.7	0.00147	mg/L	0.000725	0.00293	mg/L	0.001450	49.45%
Tl 190.801†	4.0	0.00372	mg/L	0.001189	0.00744	mg/L	0.002379	31.98%
V 292.402†	90.3	0.00035	mg/L	0.000051	0.00069	mg/L	0.000102	14.72%
Zn 206.200†	7.2	0.00711	mg/L	0.001583	0.01423	mg/L	0.003166	22.25%

Sequence No.: 9
Sample ID: JR76 MB WMN
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 27
Date Collected: 8/7/2006 1:13:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JR76 MB WMN

Analyte	Back Pressure	Flow
All	159.0 kPa	0.50 L/min

Mean Data: JR76 MB WMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1623291.8	100.2	%	0.58				0.58%
ScR 361.383	210951.9	103.9	%	1.65				1.59%
Ag 328.068†	-107.3	-0.00037	mg/L	0.000092	-0.00037	mg/L	0.000092	25.03%
Al 308.215†	21.4	0.01554	mg/L	0.019767	0.01554	mg/L	0.019767	127.18%
As 188.979†	7.0	0.00765	mg/L	0.003951	0.00765	mg/L	0.003951	51.64%
B 249.677†	33.6	0.01114	mg/L	0.000917	0.01114	mg/L	0.000917	8.23%
Ba 233.527†	-1.3	-0.00038	mg/L	0.000535	-0.00038	mg/L	0.000535	140.07%
Be 313.042†	2.6	0.00000	mg/L	0.000045	0.00000	mg/L	0.000045	>999.9%
Ca 317.933†	108.1	0.00504	mg/L	0.001412	0.00504	mg/L	0.001412	28.03%
Cd 228.802†	2.5	0.00007	mg/L	0.000153	0.00007	mg/L	0.000153	222.58%
Co 228.616†	3.5	0.00010	mg/L	0.000065	0.00010	mg/L	0.000065	64.92%
Cr 267.716†	11.3	0.00137	mg/L	0.000775	0.00137	mg/L	0.000775	56.72%
Cu 324.752†	44.6	0.00017	mg/L	0.000165	0.00017	mg/L	0.000165	96.79%
Fe 273.955†	-0.2	-0.00016	mg/L	0.001952	-0.00016	mg/L	0.001952	>999.9%
K 766.490†	68.7	0.04918	mg/L	0.005482	0.04918	mg/L	0.005482	11.15%
Mg 279.077†	14.8	0.00994	mg/L	0.005067	0.00994	mg/L	0.005067	50.96%
Mn 257.610†	2.9	0.00010	mg/L	0.000069	0.00010	mg/L	0.000069	69.42%
Mo 202.031†	2.2	0.00022	mg/L	0.000208	0.00022	mg/L	0.000208	92.68%
Na 589.592†	265.4	0.04099	mg/L	0.010722	0.04099	mg/L	0.010722	26.16%
Na 330.237†	-5.2	-0.1729	mg/L	0.56810	-0.1729	mg/L	0.56810	328.56%
Ni 231.604†	-1.4	-0.00072	mg/L	0.002361	-0.00072	mg/L	0.002361	327.48%
Pb 220.353†	6.2	0.00073	mg/L	0.000710	0.00073	mg/L	0.000710	97.75%
Sb 206.836†	0.2	0.00021	mg/L	0.001574	0.00021	mg/L	0.001574	764.47%
Se 196.026†	7.9	0.00610	mg/L	0.002927	0.00610	mg/L	0.002927	47.97%
Si 288.158†	5.4	0.00372	mg/L	0.002503	0.00372	mg/L	0.002503	67.26%
Sn 189.927†	-0.1	-0.00002	mg/L	0.000141	-0.00002	mg/L	0.000141	747.31%
Sr 421.552†	-30.0	-0.00004	mg/L	0.000050	-0.00004	mg/L	0.000050	120.35%
Ti 334.903†	-0.6	-0.00002	mg/L	0.000999	-0.00002	mg/L	0.000999	>999.9%
Tl 190.801†	2.4	0.00221	mg/L	0.003705	0.00221	mg/L	0.003705	167.44%
V 292.402†	55.3	0.00022	mg/L	0.000099	0.00022	mg/L	0.000099	45.41%
Zn 206.200†	2.4	0.00242	mg/L	0.000466	0.00242	mg/L	0.000466	19.24%

Sequence No.: 10
Sample ID: JR76 A WMN
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 28
Date Collected: 8/7/2006 1:20:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JR76 A WMN

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JR76 A WMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1630942.9	100.7	%	0.45				0.44%
ScR 361.383	218727.9	107.7	%	0.72				0.67%
Ag 328.068†	-471.5	-0.00093	mg/L	0.000061	-0.00093	mg/L	0.000061	6.53%
Al 308.215†	41.5	0.03006	mg/L	0.009664	0.03006	mg/L	0.009664	32.15%
As 188.979†	24.4	0.01925	mg/L	0.003476	0.01925	mg/L	0.003476	18.05%
B 249.677†	737.1	0.2440	mg/L	0.00922	0.2440	mg/L	0.00922	3.78%
Ba 233.527†	33.1	0.00856	mg/L	0.000567	0.00856	mg/L	0.000567	6.63%
Be 313.042†	-57.6	-0.00009	mg/L	0.000072	-0.00009	mg/L	0.000072	76.89%
Ca 317.933†	2841674.9	132.5	mg/L	1.46	132.5	mg/L	1.46	1.10%
Cd 228.802†	5.1	-0.00006	mg/L	0.000107	-0.00006	mg/L	0.000107	177.74%
Co 228.616†	11.8	-0.00011	mg/L	0.000132	-0.00011	mg/L	0.000132	119.76%
Cr 267.716†	2.0	-0.00015	mg/L	0.000725	-0.00015	mg/L	0.000725	485.01%
Cu 324.752†	-245.0	0.00073	mg/L	0.000056	0.00073	mg/L	0.000056	7.64%
Fe 273.955†	18567.5	18.58	mg/L	0.246	18.58	mg/L	0.246	1.32%
K 766.490†	16307.9	11.68	mg/L	0.155	11.68	mg/L	0.155	1.32%
Mg 279.077†	16131.3	10.86	mg/L	0.136	10.86	mg/L	0.136	1.25%
Mn 257.610†	16044.9	0.5595	mg/L	0.00683	0.5595	mg/L	0.00683	1.22%
Mo 202.031†	17.7	0.00152	mg/L	0.000123	0.00152	mg/L	0.000123	8.10%
Na 589.592†	115903.0	17.90	mg/L	0.209	17.90	mg/L	0.209	1.17%
Na 330.237†	609.0	19.09	mg/L	0.133	19.09	mg/L	0.133	0.69%
Ni 231.604†	2.7	0.00137	mg/L	0.001212	0.00137	mg/L	0.001212	88.35%
Pb 220.353†	30.9	0.00359	mg/L	0.000339	0.00359	mg/L	0.000339	9.44%
Sb 206.836†	9.4	0.00861	mg/L	0.000384	0.00861	mg/L	0.000384	4.46%
Se 196.026†	20.0	0.01487	mg/L	0.000215	0.01487	mg/L	0.000215	1.45%
Si 288.158†	27483.6	18.95	mg/L	0.208	18.95	mg/L	0.208	1.10%
Sn 189.927†	-108.3	-0.00216	mg/L	0.001408	-0.00216	mg/L	0.001408	65.20%
Sr 421.552†	544959.4	0.7522	mg/L	0.00815	0.7522	mg/L	0.00815	1.08%
Ti 334.903†	175.9	0.00667	mg/L	0.001056	0.00667	mg/L	0.001056	15.83%
Tl 190.801†	-17.4	-0.01626	mg/L	0.000842	-0.01626	mg/L	0.000842	5.18%
V 292.402†	449.9	0.00177	mg/L	0.000045	0.00177	mg/L	0.000045	2.54%
Zn 206.200†	-3.9	-0.00263	mg/L	0.002083	-0.00263	mg/L	0.002083	79.13%

Sequence No.: 11
Sample ID: JQ77 E SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 29
Date Collected: 8/7/2006 1:26:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ77 E SWC

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JQ77 E SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1587907.0	98.02	%	0.303				0.31%
ScR 361.383	214302.7	105.5	%	0.76				0.72%
Ag 328.068†	-2728.1	-0.00154	mg/L	0.000374	-0.00307	mg/L	0.000748	24.35%
Al 308.215†	169600.9	123.2	mg/L	3.50	246.5	mg/L	7.00	2.84%
As 188.979†	77.9	0.04350	mg/L	0.003791	0.08701	mg/L	0.007582	8.71%
B 249.677†	144.8	0.04539	mg/L	0.000763	0.09078	mg/L	0.001526	1.68%
Ba 233.527†	1555.6	0.4516	mg/L	0.01231	0.9032	mg/L	0.02462	2.73%
Be 313.042†	1643.9	0.00184	mg/L	0.000067	0.00368	mg/L	0.000134	3.63%
Ca 317.933†	2133120.0	99.43	mg/L	2.286	198.9	mg/L	4.57	2.30%
Cd 228.802†	72.8	0.00026	mg/L	0.000132	0.00051	mg/L	0.000264	51.40%
Co 228.616†	2825.2	0.06147	mg/L	0.000874	0.1229	mg/L	0.00175	1.42%
Cr 267.716†	2315.6	0.2831	mg/L	0.00840	0.5663	mg/L	0.01680	2.97%
Cu 324.752†	96672.4	0.3851	mg/L	0.00087	0.7702	mg/L	0.00173	0.22%
Fe 273.955†	194654.5	194.8	mg/L	5.61	389.6	mg/L	11.22	2.88%
K 766.490†	10003.3	7.163	mg/L	0.1096	14.33	mg/L	0.219	1.53%
Mg 279.077†	101335.2	68.13	mg/L	1.917	136.3	mg/L	3.83	2.81%
Mn 257.610†	83288.6	2.907	mg/L	0.0762	5.813	mg/L	0.1524	2.62%
Mo 202.031†	148.3	0.01601	mg/L	0.000843	0.03201	mg/L	0.001686	5.27%
Na 589.592†	19602.5	3.028	mg/L	0.0810	6.056	mg/L	0.1621	2.68%
Na 330.237†	58.8	3.362	mg/L	0.2024	6.725	mg/L	0.4048	6.02%
Ni 231.604†	450.4	0.2271	mg/L	0.00579	0.4543	mg/L	0.01158	2.55%
Pb 220.353†	1178.3	0.1604	mg/L	0.00102	0.3209	mg/L	0.00205	0.64%
Sb 206.836†	15.3	0.01996	mg/L	0.002449	0.03992	mg/L	0.004897	12.27%
Se 196.026†	-69.7	-0.05741	mg/L	0.004866	-0.1148	mg/L	0.00973	8.48%
Si 288.158†	2216.3	1.529	mg/L	0.0440	3.058	mg/L	0.0880	2.88%
Sn 189.927†	-40.0	0.00454	mg/L	0.000157	0.00908	mg/L	0.000314	3.46%
Sr 421.552†	328687.9	0.4537	mg/L	0.01120	0.9073	mg/L	0.02241	2.47%
Ti 334.903†	255440.8	9.694	mg/L	0.2436	19.39	mg/L	0.487	2.51%
Tl 190.801†	-22.6	-0.03099	mg/L	0.008116	-0.06198	mg/L	0.016232	26.19%
V 292.402†	128001.1	0.4776	mg/L	0.00108	0.9553	mg/L	0.00216	0.23%
Zn 206.200†	541.1	0.5335	mg/L	0.01407	1.067	mg/L	0.0281	2.64%

Sequence No.: 12
Sample ID: JQ77 F SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 30
Date Collected: 8/7/2006 1:33:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ77 F SWC

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JQ77 F SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1602305.7	98.91	%	0.560				0.57%
ScR 361.383	214981.5	105.9	%	1.19				1.12%
Ag 328.068†	-2625.9	-0.00166	mg/L	0.000154	-0.00333	mg/L	0.000309	9.28%
Al 308.215†	192855.3	140.1	mg/L	0.19	280.3	mg/L	0.39	0.14%
As 188.979†	80.2	0.04621	mg/L	0.009316	0.09242	mg/L	0.018633	20.16%
B 249.677†	161.9	0.05132	mg/L	0.001427	0.1026	mg/L	0.00285	2.78%
Ba 233.527†	1523.9	0.4429	mg/L	0.00503	0.8859	mg/L	0.01006	1.14%
Be 313.042†	1775.3	0.00197	mg/L	0.000007	0.00393	mg/L	0.000013	0.34%
Ca 317.933†	1927274.9	89.84	mg/L	0.171	179.7	mg/L	0.34	0.19%
Cd 228.802†	94.9	0.00108	mg/L	0.000250	0.00217	mg/L	0.000499	23.00%
Co 228.616†	2649.9	0.05790	mg/L	0.000660	0.1158	mg/L	0.00132	1.14%
Cr 267.716†	2595.0	0.3152	mg/L	0.00347	0.6305	mg/L	0.00693	1.10%
Cu 324.752†	41876.8	0.1747	mg/L	0.00042	0.3493	mg/L	0.00084	0.24%
Fe 273.955†	182395.0	182.6	mg/L	0.65	365.1	mg/L	1.30	0.36%
K 766.490†	9435.5	6.756	mg/L	0.0597	13.51	mg/L	0.119	0.88%
Mg 279.077†	108470.2	72.95	mg/L	0.019	145.9	mg/L	0.04	0.03%
Mn 257.610†	80501.0	2.809	mg/L	0.0058	5.618	mg/L	0.0117	0.21%
Mo 202.031†	68.4	0.00824	mg/L	0.000193	0.01648	mg/L	0.000386	2.35%
Na 589.592†	25018.8	3.865	mg/L	0.0037	7.730	mg/L	0.0074	0.10%
Na 330.237†	90.8	4.232	mg/L	0.1366	8.464	mg/L	0.2732	3.23%
Ni 231.604†	430.6	0.2171	mg/L	0.00087	0.4342	mg/L	0.00173	0.40%
Pb 220.353†	56.8	0.03404	mg/L	0.000236	0.06808	mg/L	0.000472	0.69%
Sb 206.836†	15.0	0.01885	mg/L	0.001929	0.03770	mg/L	0.003859	10.23%
Se 196.026†	-76.1	-0.06221	mg/L	0.003672	-0.1244	mg/L	0.00734	5.90%
Si 288.158†	1778.0	1.227	mg/L	0.0211	2.453	mg/L	0.0423	1.72%
Sn 189.927†	-57.1	-0.00121	mg/L	0.000395	-0.00243	mg/L	0.000790	32.57%
Sr 421.552†	352199.8	0.4861	mg/L	0.00050	0.9722	mg/L	0.00099	0.10%
Ti 334.903†	242181.0	9.191	mg/L	0.0085	18.38	mg/L	0.017	0.09%
Tl 190.801†	-17.4	-0.02582	mg/L	0.003027	-0.05165	mg/L	0.006053	11.72%
V 292.402†	142193.2	0.5313	mg/L	0.00173	1.063	mg/L	0.0035	0.33%
Zn 206.200†	1171.5	1.160	mg/L	0.0071	2.320	mg/L	0.0141	0.61%

Sequence No.: 13
Sample ID: JQ77 G SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 31
Date Collected: 8/7/2006 1:39:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ77 G SWC

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JQ77 G SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1600625.5	98.80	%	0.283				0.29%
ScR 361.383	218180.5	107.4	%	0.36				0.34%
Ag 328.068†	-2406.1	-0.00110	mg/L	0.000157	-0.00221	mg/L	0.000314	14.20%
Al 308.215†	175435.5	127.5	mg/L	0.29	255.0	mg/L	0.57	0.22%
As 188.979†	77.8	0.04761	mg/L	0.002530	0.09523	mg/L	0.005060	5.31%
B 249.677†	124.4	0.03927	mg/L	0.001499	0.07853	mg/L	0.002998	3.82%
Ba 233.527†	2402.9	0.7065	mg/L	0.00327	1.413	mg/L	0.0065	0.46%
Be 313.042†	1498.3	0.00167	mg/L	0.000065	0.00334	mg/L	0.000131	3.91%
Ca 317.933†	1964586.1	91.58	mg/L	0.254	183.2	mg/L	0.51	0.28%
Cd 228.802†	88.1	0.00091	mg/L	0.000158	0.00181	mg/L	0.000315	17.42%
Co 228.616†	2494.7	0.05533	mg/L	0.000300	0.1107	mg/L	0.00060	0.54%
Cr 267.716†	2431.4	0.2966	mg/L	0.00197	0.5931	mg/L	0.00393	0.66%
Cu 324.752†	126202.7	0.4968	mg/L	0.00173	0.9935	mg/L	0.00345	0.35%
Fe 273.955†	178017.4	178.2	mg/L	1.24	356.3	mg/L	2.47	0.69%
K 766.490†	10549.8	7.554	mg/L	0.0541	15.11	mg/L	0.108	0.72%
Mg 279.077†	96083.5	64.61	mg/L	0.220	129.2	mg/L	0.44	0.34%
Mn 257.610†	77049.8	2.689	mg/L	0.0095	5.378	mg/L	0.0189	0.35%
Mo 202.031†	98.3	0.01116	mg/L	0.000335	0.02233	mg/L	0.000670	3.00%
Na 589.592†	23264.1	3.594	mg/L	0.0143	7.188	mg/L	0.0286	0.40%
Na 330.237†	93.2	4.130	mg/L	0.2747	8.260	mg/L	0.5493	6.65%
Ni 231.604†	429.1	0.2164	mg/L	0.00285	0.4328	mg/L	0.00570	1.32%
Pb 220.353†	612.0	0.09565	mg/L	0.000189	0.1913	mg/L	0.00038	0.20%
Sb 206.836†	15.9	0.01869	mg/L	0.000261	0.03738	mg/L	0.000522	1.40%
Se 196.026†	-72.4	-0.05924	mg/L	0.007624	-0.1185	mg/L	0.01525	12.87%
Si 288.158†	2109.8	1.455	mg/L	0.0094	2.911	mg/L	0.0188	0.65%
Sn 189.927†	-37.3	0.00421	mg/L	0.002109	0.00842	mg/L	0.004218	50.07%
Sr 421.552†	510015.7	0.7039	mg/L	0.00225	1.408	mg/L	0.0045	0.32%
Ti 334.903†	210971.4	8.007	mg/L	0.0261	16.01	mg/L	0.052	0.33%
Tl 190.801†	-18.4	-0.02544	mg/L	0.002383	-0.05089	mg/L	0.004766	9.37%
V 292.402†	118276.6	0.4420	mg/L	0.00170	0.8841	mg/L	0.00340	0.38%
Zn 206.200†	639.4	0.6315	mg/L	0.00400	1.263	mg/L	0.0080	0.63%

Sequence No.: 14
Sample ID: JQ77 H SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 32
Date Collected: 8/7/2006 1:46:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ77 H SWC

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JQ77 H SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1579317.8	97.49	%	0.351				0.36%
ScR 361.383	214102.6	105.4	%	0.38				0.36%
Ag 328.068†	15976.1	0.06192	mg/L	0.000051	0.1238	mg/L	0.00010	0.08%
Al 308.215†	172462.6	125.3	mg/L	5.65	250.6	mg/L	11.31	4.51%
As 188.979†	75.7	0.04783	mg/L	0.005385	0.09565	mg/L	0.010770	11.26%
B 249.677†	105.9	0.03349	mg/L	0.002512	0.06699	mg/L	0.005024	7.50%
Ba 233.527†	1259.6	0.3636	mg/L	0.01390	0.7273	mg/L	0.02781	3.82%
Be 313.042†	1477.0	0.00164	mg/L	0.000128	0.00328	mg/L	0.000255	7.78%
Ca 317.933†	1404614.9	65.48	mg/L	2.917	131.0	mg/L	5.83	4.46%
Cd 228.802†	461.0	0.01278	mg/L	0.000154	0.02556	mg/L	0.000307	1.20%
Co 228.616†	8024.0	0.2138	mg/L	0.00073	0.4277	mg/L	0.00146	0.34%
Cr 267.716†	3621.6	0.4382	mg/L	0.01861	0.8764	mg/L	0.03722	4.25%
Cu 324.752†	65888.6	0.2670	mg/L	0.00047	0.5340	mg/L	0.00095	0.18%
Fe 273.955†	185714.7	185.9	mg/L	8.08	371.8	mg/L	16.16	4.35%
K 766.490†	13148.1	9.415	mg/L	0.4030	18.83	mg/L	0.806	4.28%
Mg 279.077†	123343.1	82.97	mg/L	3.701	165.9	mg/L	7.40	4.46%
Mn 257.610†	79089.0	2.760	mg/L	0.1211	5.520	mg/L	0.2423	4.39%
Mo 202.031†	88.3	0.00968	mg/L	0.000587	0.01935	mg/L	0.001175	6.07%
Na 589.592†	28557.5	4.412	mg/L	0.1909	8.823	mg/L	0.3818	4.33%
Na 330.237†	106.9	4.795	mg/L	0.0813	9.590	mg/L	0.1625	1.70%
Ni 231.604†	560.3	0.2826	mg/L	0.01142	0.5651	mg/L	0.02284	4.04%
Pb 220.353†	867.1	0.1252	mg/L	0.00194	0.2504	mg/L	0.00388	1.55%
Sb 206.836†	15.8	0.01607	mg/L	0.002029	0.03214	mg/L	0.004059	12.63%
Se 196.026†	-72.9	-0.05969	mg/L	0.007213	-0.1194	mg/L	0.01443	12.08%
Si 288.158†	1274.4	0.8797	mg/L	0.03632	1.759	mg/L	0.0726	4.13%
Sn 189.927†	-52.2	-0.00436	mg/L	0.000891	-0.00872	mg/L	0.001782	20.43%
Sr 421.552†	213360.6	0.2945	mg/L	0.01322	0.5890	mg/L	0.02643	4.49%
Ti 334.903†	203537.9	7.724	mg/L	0.3473	15.45	mg/L	0.695	4.50%
Tl 190.801†	-20.5	-0.02777	mg/L	0.001514	-0.05554	mg/L	0.003029	5.45%
V 292.402†	117431.3	0.4400	mg/L	0.00082	0.8801	mg/L	0.00163	0.19%
Zn 206.200†	467.0	0.4596	mg/L	0.01452	0.9192	mg/L	0.02904	3.16%

Sequence No.: 15
Sample ID: JQ77 I SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 33
Date Collected: 8/7/2006 1:52:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ77 I SWC

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JQ77 I SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1582460.1	97.68	%	0.824				0.84%
ScR 361.383	212570.3	104.7	%	0.95				0.91%
Ag 328.068†	-2191.3	-0.00101	mg/L	0.000040	-0.00201	mg/L	0.000079	3.94%
Al 308.215†	159489.4	115.9	mg/L	0.76	231.8	mg/L	1.53	0.66%
As 188.979†	74.1	0.04494	mg/L	0.000266	0.08988	mg/L	0.000532	0.59%
B 249.677†	113.6	0.03534	mg/L	0.004327	0.07069	mg/L	0.008655	12.24%
Ba 233.527†	1188.6	0.3441	mg/L	0.00324	0.6882	mg/L	0.00648	0.94%
Be 313.042†	1403.3	0.00157	mg/L	0.000047	0.00315	mg/L	0.000094	2.98%
Ca 317.933†	1611774.9	75.13	mg/L	0.394	150.3	mg/L	0.79	0.52%
Cd 228.802†	54.3	0.00001	mg/L	0.000063	0.00001	mg/L	0.000126	864.00%
Co 228.616†	2473.9	0.05442	mg/L	0.000701	0.1088	mg/L	0.00140	1.29%
Cr 267.716†	1835.0	0.2235	mg/L	0.00227	0.4470	mg/L	0.00455	1.02%
Cu 324.752†	26226.2	0.1132	mg/L	0.00046	0.2263	mg/L	0.00093	0.41%
Fe 273.955†	161652.5	161.8	mg/L	0.42	323.6	mg/L	0.84	0.26%
K 766.490†	9763.7	6.991	mg/L	0.1075	13.98	mg/L	0.215	1.54%
Mg 279.077†	93729.7	63.03	mg/L	1.172	126.1	mg/L	2.34	1.86%
Mn 257.610†	67125.4	2.342	mg/L	0.0381	4.685	mg/L	0.0762	1.63%
Mo 202.031†	59.1	0.00701	mg/L	0.000094	0.01402	mg/L	0.000188	1.34%
Na 589.592†	17098.8	2.641	mg/L	0.0386	5.283	mg/L	0.0772	1.46%
Na 330.237†	54.8	3.164	mg/L	0.5253	6.328	mg/L	1.0506	16.60%
Ni 231.604†	415.2	0.2094	mg/L	0.00234	0.4187	mg/L	0.00467	1.12%
Pb 220.353†	77.7	0.03167	mg/L	0.000361	0.06334	mg/L	0.000723	1.14%
Sb 206.836†	12.5	0.01676	mg/L	0.003208	0.03352	mg/L	0.006416	19.14%
Se 196.026†	-56.6	-0.04654	mg/L	0.007257	-0.09308	mg/L	0.014514	15.59%
Si 288.158†	1867.0	1.288	mg/L	0.0170	2.576	mg/L	0.0340	1.32%
Sn 189.927†	-55.7	-0.00307	mg/L	0.002294	-0.00614	mg/L	0.004588	74.72%
Sr 421.552†	252969.1	0.3492	mg/L	0.00210	0.6983	mg/L	0.00420	0.60%
Ti 334.903†	219958.8	8.348	mg/L	0.0435	16.70	mg/L	0.087	0.52%
Tl 190.801†	-19.1	-0.02634	mg/L	0.005431	-0.05269	mg/L	0.010863	20.62%
V 292.402†	108810.6	0.4058	mg/L	0.00179	0.8117	mg/L	0.00357	0.44%
Zn 206.200†	327.3	0.3217	mg/L	0.00536	0.6434	mg/L	0.01073	1.67%

Sequence No.: 16
Sample ID: JQ77 REF SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 34
Date Collected: 8/7/2006 1:58:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ77 REF SWC

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JQ77 REF SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1578889.5	97.46	%	0.416				0.43%
ScR 361.383	211086.6	104.0	%	0.52				0.50%
Ag 328.068†	334613.6	1.147	mg/L	0.0040	2.293	mg/L	0.0079	0.35%
Al 308.215†	123200.6	89.51	mg/L	1.853	179.0	mg/L	3.71	2.07%
As 188.979†	966.4	1.037	mg/L	0.0176	2.074	mg/L	0.0352	1.70%
B 249.677†	2069.0	0.6853	mg/L	0.01469	1.371	mg/L	0.0294	2.14%
Ba 233.527†	5375.7	1.600	mg/L	0.0346	3.200	mg/L	0.0692	2.16%
Be 313.042†	327359.7	0.5146	mg/L	0.01012	1.029	mg/L	0.0202	1.97%
Ca 317.933†	824326.6	38.43	mg/L	0.734	76.85	mg/L	1.469	1.91%
Cd 228.802†	18262.0	0.5825	mg/L	0.00683	1.165	mg/L	0.0137	1.17%
Co 228.616†	27606.2	0.7818	mg/L	0.00486	1.564	mg/L	0.0097	0.62%
Cr 267.716†	5654.9	0.6866	mg/L	0.01409	1.373	mg/L	0.0282	2.05%
Cu 324.752†	233833.5	0.9047	mg/L	0.00224	1.809	mg/L	0.0045	0.25%
Fe 273.955†	129892.3	130.0	mg/L	2.57	260.0	mg/L	5.14	1.98%
K 766.490†	34327.3	24.58	mg/L	0.500	49.16	mg/L	1.001	2.04%
Mg 279.077†	44459.3	29.86	mg/L	0.576	59.73	mg/L	1.151	1.93%
Mn 257.610†	132343.3	4.622	mg/L	0.0871	9.243	mg/L	0.1742	1.88%
Mo 202.031†	2345.3	0.2367	mg/L	0.00261	0.4735	mg/L	0.00522	1.10%
Na 589.592†	15139.8	2.339	mg/L	0.0499	4.678	mg/L	0.0999	2.13%
Na 330.237†	79.0	2.529	mg/L	0.1637	5.058	mg/L	0.3274	6.47%
Ni 231.604†	1089.0	0.5494	mg/L	0.01472	1.099	mg/L	0.0294	2.68%
Pb 220.353†	10642.3	1.250	mg/L	0.0175	2.501	mg/L	0.0350	1.40%
Sb 206.836†	521.2	0.5022	mg/L	0.00937	1.004	mg/L	0.0187	1.87%
Se 196.026†	1397.8	1.079	mg/L	0.0118	2.159	mg/L	0.0236	1.09%
Si 288.158†	5158.3	3.558	mg/L	0.0720	7.117	mg/L	0.1440	2.02%
Sn 189.927†	4136.2	0.9764	mg/L	0.01235	1.953	mg/L	0.0247	1.26%
Sr 421.552†	395563.6	0.5460	mg/L	0.01143	1.092	mg/L	0.0229	2.09%
Ti 334.903†	91076.9	3.456	mg/L	0.0709	6.912	mg/L	0.1418	2.05%
Tl 190.801†	2055.5	1.907	mg/L	0.0151	3.814	mg/L	0.0302	0.79%
V 292.402†	328675.5	1.236	mg/L	0.0059	2.472	mg/L	0.0117	0.47%
Zn 206.200†	2493.3	2.473	mg/L	0.0606	4.947	mg/L	0.1212	2.45%

Sequence No.: 17
Sample ID: JR76 MBSPK WMN
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 35
Date Collected: 8/7/2006 2:05:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JR76 MBSPK WMN

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JR76 MBSPK WMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1602317.5	98.91	%	0.337				0.34%
ScR 361.383	211629.0	104.2	%	0.89				0.86%
Ag 328.068†	137072.1	0.4680	mg/L	0.01232	0.4680	mg/L	0.01232	2.63%
Al 308.215†	2807.9	2.032	mg/L	0.0264	2.032	mg/L	0.0264	1.30%
As 188.979†	1899.7	2.077	mg/L	0.0048	2.077	mg/L	0.0048	0.23%
B 249.677†	19.4	0.00731	mg/L	0.000811	0.00731	mg/L	0.000811	11.10%
Ba 233.527†	6505.5	1.948	mg/L	0.0227	1.948	mg/L	0.0227	1.17%
Be 313.042†	325044.4	0.5121	mg/L	0.00218	0.5121	mg/L	0.00218	0.43%
Ca 317.933†	216471.9	10.09	mg/L	0.044	10.09	mg/L	0.044	0.44%
Cd 228.802†	16570.9	0.5282	mg/L	0.00807	0.5282	mg/L	0.00807	1.53%
Co 228.616†	17458.3	0.4988	mg/L	0.00775	0.4988	mg/L	0.00775	1.55%
Cr 267.716†	4077.7	0.4911	mg/L	0.00509	0.4911	mg/L	0.00509	1.04%
Cu 324.752†	129405.7	0.4949	mg/L	0.00724	0.4949	mg/L	0.00724	1.46%
Fe 273.955†	4680.3	4.683	mg/L	0.0310	4.683	mg/L	0.0310	0.66%
K 766.490†	14619.6	10.47	mg/L	0.037	10.47	mg/L	0.037	0.35%
Mg 279.077†	15420.8	10.39	mg/L	0.049	10.39	mg/L	0.049	0.47%
Mn 257.610†	14631.9	0.5113	mg/L	0.00310	0.5113	mg/L	0.00310	0.61%
Mo 202.031†	86.5	0.00848	mg/L	0.000266	0.00848	mg/L	0.000266	3.13%
Na 589.592†	66685.2	10.30	mg/L	0.066	10.30	mg/L	0.066	0.64%
Na 330.237†	326.8	10.66	mg/L	0.295	10.66	mg/L	0.295	2.77%
Ni 231.604†	997.8	0.5031	mg/L	0.00438	0.5031	mg/L	0.00438	0.87%
Pb 220.353†	17665.4	2.046	mg/L	0.0301	2.046	mg/L	0.0301	1.47%
Sb 206.836†	6.2	-0.00018	mg/L	0.002113	-0.00018	mg/L	0.002113	>999.9%
Se 196.026†	2967.9	2.302	mg/L	0.0069	2.302	mg/L	0.0069	0.30%
Si 288.158†	13.3	0.01019	mg/L	0.003687	0.01019	mg/L	0.003687	36.19%
Sn 189.927†	-17.3	-0.00244	mg/L	0.000727	-0.00244	mg/L	0.000727	29.85%
Sr 421.552†	362250.9	0.5000	mg/L	0.00203	0.5000	mg/L	0.00203	0.41%
Ti 334.903†	35.6	0.00124	mg/L	0.000465	0.00124	mg/L	0.000465	37.51%
Tl 190.801†	2247.4	2.091	mg/L	0.0062	2.091	mg/L	0.0062	0.30%
V 292.402†	136164.2	0.5139	mg/L	0.00742	0.5139	mg/L	0.00742	1.44%
Zn 206.200†	517.3	0.5137	mg/L	0.00357	0.5137	mg/L	0.00357	0.70%

Sequence No.: 18
Sample ID: CV 3
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/7/2006 2:11:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1549553.5	95.65	%	0.615				0.64%
ScR 361.383	209389.1	103.1	%	0.29				0.28%
Ag 328.068†	292128.2	0.9969	mg/L	0.00629	0.9969	mg/L	0.00629	0.63%
Al 308.215†	2802.8	2.000	mg/L	0.0037	2.000	mg/L	0.0037	0.19%
As 188.979†	1868.9	2.040	mg/L	0.0111	2.040	mg/L	0.0111	0.55%
B 249.677†	2985.9	0.9920	mg/L	0.00409	0.9920	mg/L	0.00409	0.41%
Ba 233.527†	3305.4	0.9893	mg/L	0.00329	0.9893	mg/L	0.00329	0.33%
Be 313.042†	631180.3	0.9944	mg/L	0.00152	0.9944	mg/L	0.00152	0.15%
Ca 317.933†	44164.8	2.059	mg/L	0.0038	2.059	mg/L	0.0038	0.18%
Cd 228.802†	32100.5	1.026	mg/L	0.0031	1.026	mg/L	0.0031	0.31%
Co 228.616†	34885.4	0.9962	mg/L	0.00372	0.9962	mg/L	0.00372	0.37%
Cr 267.716†	7983.8	0.9635	mg/L	0.00238	0.9635	mg/L	0.00238	0.25%
Cu 324.752†	271926.2	1.038	mg/L	0.0056	1.038	mg/L	0.0056	0.54%
Fe 273.955†	2028.5	2.028	mg/L	0.0053	2.028	mg/L	0.0053	0.26%
K 766.490†	28310.5	20.27	mg/L	0.080	20.27	mg/L	0.080	0.39%
Mg 279.077†	3065.9	2.070	mg/L	0.0046	2.070	mg/L	0.0046	0.22%
Mn 257.610†	27325.2	0.9549	mg/L	0.00180	0.9549	mg/L	0.00180	0.19%
Mo 202.031†	10039.9	1.008	mg/L	0.0098	1.008	mg/L	0.0098	0.97%
Na 589.592†	322332.9	49.79	mg/L	0.088	49.79	mg/L	0.088	0.18%
Na 330.237†	1527.1	50.82	mg/L	0.247	50.82	mg/L	0.247	0.49%
Ni 231.604†	2006.6	1.013	mg/L	0.0027	1.013	mg/L	0.0027	0.27%
Pb 220.353†	17401.4	2.017	mg/L	0.0139	2.017	mg/L	0.0139	0.69%
Sb 206.836†	2244.8	2.129	mg/L	0.0255	2.129	mg/L	0.0255	1.20%
Se 196.026†	2641.1	2.048	mg/L	0.0164	2.048	mg/L	0.0164	0.80%
Si 288.158†	2947.4	2.034	mg/L	0.0020	2.034	mg/L	0.0020	0.10%
Sn 189.927†	4102.3	0.9663	mg/L	0.00672	0.9663	mg/L	0.00672	0.70%
Sr 421.552†	712270.3	0.9831	mg/L	0.00190	0.9831	mg/L	0.00190	0.19%
Ti 334.903†	26783.2	1.015	mg/L	0.0028	1.015	mg/L	0.0028	0.28%
Tl 190.801†	2166.2	2.015	mg/L	0.0154	2.015	mg/L	0.0154	0.77%
V 292.402†	266345.6	1.006	mg/L	0.0069	1.006	mg/L	0.0069	0.68%
Zn 206.200†	1043.4	1.036	mg/L	0.0027	1.036	mg/L	0.0027	0.26%

Sequence No.: 19
Sample ID: CB 3
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/7/2006 2:17:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1581459.9	97.62	%	0.434				0.44%
ScR 361.383	209099.6	103.0	%	1.05				1.02%
Ag 328.068†	13.7	0.00005	mg/L	0.000209	0.00005	mg/L	0.000209	447.66%
Al 308.215†	-0.8	-0.00063	mg/L	0.017556	-0.00063	mg/L	0.017556	>999.9%
As 188.979†	7.7	0.00846	mg/L	0.003067	0.00846	mg/L	0.003067	36.27%
B 249.677†	34.2	0.01132	mg/L	0.000913	0.01132	mg/L	0.000913	8.06%
Ba 233.527†	-1.3	-0.00039	mg/L	0.001106	-0.00039	mg/L	0.001106	286.18%
Be 313.042†	-9.3	-0.00002	mg/L	0.000023	-0.00002	mg/L	0.000023	149.25%
Ca 317.933†	-1.0	-0.00004	mg/L	0.001271	-0.00004	mg/L	0.001271	>999.9%
Cd 228.802†	-0.1	-0.00002	mg/L	0.000090	-0.00002	mg/L	0.000090	582.59%
Co 228.616†	3.7	0.00011	mg/L	0.000163	0.00011	mg/L	0.000163	154.58%
Cr 267.716†	9.8	0.00118	mg/L	0.000743	0.00118	mg/L	0.000743	63.03%
Cu 324.752†	224.0	0.00085	mg/L	0.000145	0.00085	mg/L	0.000145	16.90%
Fe 273.955†	0.6	0.00057	mg/L	0.001363	0.00057	mg/L	0.001363	238.78%
K 766.490†	114.4	0.08190	mg/L	0.035261	0.08190	mg/L	0.035261	43.05%
Mg 279.077†	10.2	0.00687	mg/L	0.008211	0.00687	mg/L	0.008211	119.55%
Mn 257.610†	10.0	0.00035	mg/L	0.000045	0.00035	mg/L	0.000045	12.99%
Mo 202.031†	11.1	0.00112	mg/L	0.000140	0.00112	mg/L	0.000140	12.48%
Na 589.592†	7.2	0.00112	mg/L	0.003037	0.00112	mg/L	0.003037	271.75%
Na 330.237†	20.6	0.6868	mg/L	0.81528	0.6868	mg/L	0.81528	118.71%
Ni 231.604†	-5.9	-0.00300	mg/L	0.000879	-0.00300	mg/L	0.000879	29.33%
Pb 220.353†	32.2	0.00373	mg/L	0.000249	0.00373	mg/L	0.000249	6.68%
Sb 206.836†	2.9	0.00272	mg/L	0.000736	0.00272	mg/L	0.000736	27.08%
Se 196.026†	2.6	0.00202	mg/L	0.003852	0.00202	mg/L	0.003852	190.80%
Si 288.158†	8.8	0.00604	mg/L	0.000275	0.00604	mg/L	0.000275	4.55%
Sn 189.927†	8.8	0.00206	mg/L	0.000838	0.00206	mg/L	0.000838	40.65%
Sr 421.552†	44.2	0.00006	mg/L	0.000070	0.00006	mg/L	0.000070	115.35%
Ti 334.903†	-0.2	-0.00001	mg/L	0.000489	-0.00001	mg/L	0.000489	>999.9%
Tl 190.801†	3.2	0.00297	mg/L	0.001629	0.00297	mg/L	0.001629	54.87%
V 292.402†	87.8	0.00034	mg/L	0.000065	0.00034	mg/L	0.000065	19.31%
Zn 206.200†	2.3	0.00228	mg/L	0.001127	0.00228	mg/L	0.001127	49.35%

Analysis Begun

Start Time: 8/7/2006 2:22:47 PM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Plasma On Time: 8/7/2006 9:54:30 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0807B.sif
Batch ID:
Results Data Set: PE060807
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: JQ35R MB1 SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X
Autosampler Location: 36
Date Collected: 8/7/2006 2:22:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35R MB1 SWC

Analyte	Back Pressure	Flow
All	159.0 kPa	0.50 L/min

Mean Data: JQ35R MB1 SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1599574.5	98.74	%	0.736				0.75%
ScR 361.383	212776.1	104.8	%	0.59				0.56%
Ag 328.068†	-18.9	-0.00006	mg/L	0.000153	-0.00013	mg/L	0.000307	239.94%
Al 308.215†	117.3	0.08522	mg/L	0.011384	0.1704	mg/L	0.02277	13.36%
As 188.979†	5.6	0.00613	mg/L	0.002223	0.01226	mg/L	0.004445	36.26%
B 249.677†	28.3	0.00936	mg/L	0.000480	0.01872	mg/L	0.000960	5.13%
Ba 233.527†	1.0	0.00031	mg/L	0.000686	0.00061	mg/L	0.001372	223.84%
Be 313.042†	-10.9	-0.00002	mg/L	0.000035	-0.00003	mg/L	0.000070	200.51%
Ca 317.933†	2914.1	0.1358	mg/L	0.00097	0.2717	mg/L	0.00194	0.71%
Cd 228.802†	7.0	0.00022	mg/L	0.000063	0.00043	mg/L	0.000125	29.02%
Co 228.616†	4.4	0.00012	mg/L	0.000110	0.00024	mg/L	0.000220	91.87%
Cr 267.716†	8.3	0.00100	mg/L	0.000575	0.00201	mg/L	0.001150	57.31%
Cu 324.752†	198.1	0.00076	mg/L	0.000219	0.00151	mg/L	0.000438	28.92%
Fe 273.955†	10.8	0.01086	mg/L	0.002133	0.02172	mg/L	0.004266	19.64%
K 766.490†	34.6	0.02479	mg/L	0.024936	0.04957	mg/L	0.049871	100.60%
Mg 279.077†	39.8	0.02680	mg/L	0.012715	0.05359	mg/L	0.025429	47.45%
Mn 257.610†	15.2	0.00053	mg/L	0.000082	0.00106	mg/L	0.000163	15.39%
Mo 202.031†	2.9	0.00029	mg/L	0.000254	0.00059	mg/L	0.000508	86.07%
Na 589.592†	1.8	0.00029	mg/L	0.006484	0.00057	mg/L	0.012968	>999.9%
Na 330.237†	-1.4	-0.05432	mg/L	0.371726	-0.1086	mg/L	0.74345	684.28%
Ni 231.604†	1.4	0.00072	mg/L	0.002103	0.00144	mg/L	0.004206	292.37%
Pb 220.353†	23.8	0.00277	mg/L	0.000297	0.00554	mg/L	0.000593	10.72%
Sb 206.836†	1.6	0.00153	mg/L	0.001262	0.00306	mg/L	0.002524	82.47%
Se 196.026†	-0.2	-0.00012	mg/L	0.006948	-0.00023	mg/L	0.013895	>999.9%
Si 288.158†	11.4	0.00788	mg/L	0.004512	0.01577	mg/L	0.009023	57.22%
Sn 189.927†	5.4	0.00129	mg/L	0.000192	0.00257	mg/L	0.000384	14.91%
Sr 421.552†	157.8	0.00022	mg/L	0.000046	0.00044	mg/L	0.000092	21.19%
Ti 334.903†	120.5	0.00457	mg/L	0.000360	0.00914	mg/L	0.000719	7.87%
Tl 190.801†	3.1	0.00289	mg/L	0.002691	0.00579	mg/L	0.005381	92.98%
V 292.402†	58.6	0.0022	mg/L	0.000045	0.00045	mg/L	0.000091	20.18%
Zn 206.200†	24.5	0.02436	mg/L	0.001731	0.04872	mg/L	0.003463	7.11%

Sequence No.: 2
Sample ID: JQ35R ADUP SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 37
Date Collected: 8/7/2006 2:29:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35R ADUP SWC

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JQ35R ADUP SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1635165.1	100.9	%	0.47				0.46%
ScR 361.383	220865.9	108.8	%	0.33				0.31%
Ag 328.068†	-1630.5	0.00342	mg/L	0.000183	0.00684	mg/L	0.000366	5.35%
Al 308.215†	273752.7	198.9	mg/L	0.74	397.9	mg/L	1.48	0.37%
As 188.979†	91.4	0.05486	mg/L	0.001532	0.1097	mg/L	0.00306	2.79%
B 249.677†	68.9	0.01994	mg/L	0.003383	0.03988	mg/L	0.006765	16.96%
Ba 233.527†	3018.2	0.8874	mg/L	0.00499	1.775	mg/L	0.0100	0.56%
Be 313.042†	2536.9	0.00309	mg/L	0.000058	0.00617	mg/L	0.000116	1.88%
Ca 317.933†	814264.9	37.96	mg/L	0.135	75.91	mg/L	0.271	0.36%
Cd 228.802†	312.4	0.00758	mg/L	0.000041	0.01517	mg/L	0.000082	0.54%
Co 228.616†	3973.1	0.09496	mg/L	0.000576	0.1899	mg/L	0.00115	0.61%
Cr 267.716†	1640.6	0.2083	mg/L	0.00101	0.4165	mg/L	0.00202	0.48%
Cu 324.752†	89918.8	0.3624	mg/L	0.00132	0.7248	mg/L	0.00265	0.37%
Fe 273.955†	224320.8	224.5	mg/L	0.44	449.0	mg/L	0.87	0.19%
K 766.490†	9185.5	6.577	mg/L	0.0232	13.15	mg/L	0.046	0.35%
Mg 279.077†	58920.8	39.53	mg/L	0.149	79.07	mg/L	0.298	0.38%
Mn 257.610†	93097.8	3.250	mg/L	0.0097	6.500	mg/L	0.0195	0.30%
Mo 202.031†	66.8	0.01017	mg/L	0.000413	0.02035	mg/L	0.000826	4.06%
Na 589.592†	34685.1	5.358	mg/L	0.0119	10.72	mg/L	0.024	0.22%
Na 330.237†	125.6	5.758	mg/L	0.2306	11.52	mg/L	0.461	4.00%
Ni 231.604†	346.6	0.1748	mg/L	0.00071	0.3496	mg/L	0.00143	0.41%
Pb 220.353†	9342.8	1.120	mg/L	0.0085	2.240	mg/L	0.0170	0.76%
Sb 206.836†	15.9	0.02220	mg/L	0.005313	0.04439	mg/L	0.010627	23.94%
Se 196.026†	-82.9	-0.06800	mg/L	0.007450	-0.1360	mg/L	0.01490	10.96%
Si 288.158†	3117.1	2.150	mg/L	0.0339	4.300	mg/L	0.0678	1.58%
Sn 189.927†	-8.9	0.00177	mg/L	0.001457	0.00355	mg/L	0.002914	82.18%
Sr 421.552†	353348.8	0.4877	mg/L	0.00167	0.9754	mg/L	0.00334	0.34%
Ti 334.903†	252902.7	9.598	mg/L	0.0238	19.20	mg/L	0.048	0.25%
Tl 190.801†	-14.2	-0.02338	mg/L	0.003697	-0.04676	mg/L	0.007394	15.81%
V 292.402†	156193.2	0.5828	mg/L	0.00233	1.166	mg/L	0.0047	0.40%
Zn 206.200†	1954.1	1.936	mg/L	0.0146	3.871	mg/L	0.0292	0.76%

Sequence No.: 3
Sample ID: JQ35R A SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 38
Date Collected: 8/7/2006 2:35:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35R A SWC

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JQ35R A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1632957.2	100.8	%	0.75				0.74%
ScR 361.383	219602.7	108.1	%	1.13				1.04%
Ag 328.068†	-2020.8	0.00199	mg/L	0.000079	0.00397	mg/L	0.000158	3.98%
Al 308.215†	269382.8	195.8	mg/L	1.93	391.5	mg/L	3.87	0.99%
As 188.979†	100.3	0.06602	mg/L	0.001923	0.1320	mg/L	0.00385	2.91%
B 249.677†	60.9	0.01740	mg/L	0.000313	0.03479	mg/L	0.000625	1.80%
Ba 233.527†	2934.5	0.8625	mg/L	0.01215	1.725	mg/L	0.0243	1.41%
Be 313.042†	2507.4	0.00305	mg/L	0.000047	0.00610	mg/L	0.000094	1.54%
Ca 317.933†	794104.1	37.02	mg/L	0.276	74.03	mg/L	0.551	0.74%
Cd 228.802†	305.0	0.00736	mg/L	0.000180	0.01471	mg/L	0.000360	2.45%
Co 228.616†	3988.6	0.09610	mg/L	0.001170	0.1922	mg/L	0.00234	1.22%
Cr 267.716†	1571.5	0.1998	mg/L	0.00233	0.3996	mg/L	0.00467	1.17%
Cu 324.752†	89129.2	0.3592	mg/L	0.00048	0.7185	mg/L	0.00097	0.13%
Fe 273.955†	221973.5	222.2	mg/L	2.18	444.3	mg/L	4.36	0.98%
K 766.490†	8991.8	6.439	mg/L	0.0994	12.88	mg/L	0.199	1.54%
Mg 279.077†	58384.0	39.17	mg/L	0.387	78.35	mg/L	0.774	0.99%
Mn 257.610†	93569.9	3.266	mg/L	0.0299	6.533	mg/L	0.0597	0.91%
Mo 202.031†	31.5	0.00657	mg/L	0.000108	0.01314	mg/L	0.000215	1.64%
Na 589.592†	33459.8	5.169	mg/L	0.0497	10.34	mg/L	0.099	0.96%
Na 330.237†	121.4	5.564	mg/L	0.3393	11.13	mg/L	0.679	6.10%
Ni 231.604†	355.1	0.1791	mg/L	0.00099	0.3581	mg/L	0.00198	0.55%
Pb 220.353†	9666.4	1.157	mg/L	0.0052	2.314	mg/L	0.0105	0.45%
Sb 206.836†	19.9	0.02575	mg/L	0.006904	0.05150	mg/L	0.013808	26.81%
Se 196.026†	-91.4	-0.07461	mg/L	0.002389	-0.1492	mg/L	0.00478	3.20%
Si 288.158†	2862.7	1.974	mg/L	0.0044	3.949	mg/L	0.0087	0.22%
Sn 189.927†	-8.7	0.00175	mg/L	0.000756	0.00349	mg/L	0.001513	43.28%
Sr 421.552†	350859.4	0.4843	mg/L	0.00440	0.9685	mg/L	0.00881	0.91%
Ti 334.903†	242200.7	9.192	mg/L	0.0891	18.38	mg/L	0.178	0.97%
Tl 190.801†	-13.0	-0.02191	mg/L	0.004500	-0.04381	mg/L	0.008999	20.54%
V 292.402†	154249.1	0.5757	mg/L	0.00046	1.151	mg/L	0.0009	0.08%
Zn 206.200†	1805.0	1.788	mg/L	0.0250	3.575	mg/L	0.0501	1.40%

Sequence No.: 4
Sample ID: JQ35R ASPK SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 39
Date Collected: 8/7/2006 2:41:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35R ASPK SWC

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JQ35R ASPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1629936.5	100.6	%	0.50				0.49%
ScR 361.383	221799.6	109.2	%	0.61				0.56%
Ag 328.068†	139541.6	0.4850	mg/L	0.00098	0.9701	mg/L	0.00197	0.20%
Al 308.215†	275548.3	200.2	mg/L	4.41	400.5	mg/L	8.83	2.20%
As 188.979†	1802.5	1.927	mg/L	0.0063	3.854	mg/L	0.0126	0.33%
B 249.677†	64.2	0.01933	mg/L	0.001636	0.03866	mg/L	0.003272	8.46%
Ba 233.527†	9127.7	2.717	mg/L	0.0544	5.434	mg/L	0.1089	2.00%
Be 313.042†	306676.7	0.4823	mg/L	0.01004	0.9645	mg/L	0.02008	2.08%
Ca 317.933†	1013517.4	47.24	mg/L	0.984	94.49	mg/L	1.968	2.08%
Cd 228.802†	15454.6	0.4903	mg/L	0.00253	0.9807	mg/L	0.00505	0.52%
Co 228.616†	19862.1	0.5498	mg/L	0.00271	1.100	mg/L	0.0054	0.49%
Cr 267.716†	5335.1	0.6527	mg/L	0.01419	1.305	mg/L	0.0284	2.17%
Cu 324.752†	237592.5	0.9264	mg/L	0.00266	1.853	mg/L	0.0053	0.29%
Fe 273.955†	221201.3	221.4	mg/L	3.63	442.8	mg/L	7.25	1.64%
K 766.490†	21915.1	15.69	mg/L	0.327	31.38	mg/L	0.654	2.08%
Mg 279.077†	72691.6	48.82	mg/L	1.075	97.63	mg/L	2.151	2.20%
Mn 257.610†	104480.3	3.648	mg/L	0.0724	7.295	mg/L	0.1448	1.98%
Mo 202.031†	35.1	0.00680	mg/L	0.000457	0.01360	mg/L	0.000915	6.73%
Na 589.592†	96191.9	14.86	mg/L	0.308	29.72	mg/L	0.615	2.07%
Na 330.237†	422.0	15.31	mg/L	0.354	30.62	mg/L	0.708	2.31%
Ni 231.604†	1259.8	0.6353	mg/L	0.01125	1.271	mg/L	0.0225	1.77%
Pb 220.353†	25601.6	3.003	mg/L	0.0174	6.007	mg/L	0.0347	0.58%
Sb 206.836†	21.5	0.02164	mg/L	0.001824	0.04327	mg/L	0.003648	8.43%
Se 196.026†	2386.3	1.847	mg/L	0.0126	3.695	mg/L	0.0253	0.68%
Si 288.158†	3278.7	2.262	mg/L	0.0371	4.525	mg/L	0.0741	1.64%
Sn 189.927†	-17.6	0.00132	mg/L	0.001722	0.00264	mg/L	0.003443	130.67%
Sr 421.552†	694312.3	0.9583	mg/L	0.02070	1.917	mg/L	0.0414	2.16%
Ti 334.903†	241728.1	9.174	mg/L	0.1949	18.35	mg/L	0.390	2.12%
Tl 190.801†	1943.1	1.798	mg/L	0.0031	3.596	mg/L	0.0063	0.17%
V 292.402†	278641.9	1.045	mg/L	0.0021	2.090	mg/L	0.0042	0.20%
Zn 206.200†	2468.2	2.446	mg/L	0.0500	4.893	mg/L	0.1000	2.04%

13%

Sequence No.: 5
Sample ID: JQ52R B SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 40
Date Collected: 8/7/2006 2:47:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ52R B SWC

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JQ52R B SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1628808.7	100.5	%	0.81				0.81%
ScR 361.383	218780.1	107.7	%	1.06				0.98%
Ag 328.068†	-1020.4	0.00587	mg/L	0.000166	0.01173	mg/L	0.000332	2.83%
Al 308.215†	265273.4	192.8	mg/L	2.12	385.5	mg/L	4.25	1.10%
As 188.979†	116.9	0.08147	mg/L	0.002359	0.1629	mg/L	0.00472	2.90%
B 249.677†	52.1	0.01431	mg/L	0.001713	0.02862	mg/L	0.003426	11.97%
Ba 233.527†	3052.7	0.8970	mg/L	0.01392	1.794	mg/L	0.0278	1.55%
Be 313.042†	2408.3	0.00278	mg/L	0.000107	0.00556	mg/L	0.000214	3.84%
Ca 317.933†	891851.4	41.57	mg/L	0.377	83.15	mg/L	0.755	0.91%
Cd 228.802†	594.9	0.01650	mg/L	0.000233	0.03301	mg/L	0.000466	1.41%
Co 228.616†	4305.0	0.1032	mg/L	0.00100	0.2064	mg/L	0.00199	0.97%
Cr 267.716†	1966.4	0.2485	mg/L	0.00393	0.4969	mg/L	0.00787	1.58%
Cu 324.752†	111917.3	0.4472	mg/L	0.00274	0.8945	mg/L	0.00547	0.61%
Fe 273.955†	233850.2	234.1	mg/L	2.16	468.1	mg/L	4.32	0.92%
K 766.490†	8903.8	6.376	mg/L	0.1426	12.75	mg/L	0.285	2.24%
Mg 279.077†	56424.0	37.85	mg/L	0.374	75.69	mg/L	0.748	0.99%
Mn 257.610†	102709.1	3.586	mg/L	0.0323	7.172	mg/L	0.0645	0.90%
Mo 202.031†	43.3	0.00771	mg/L	0.000156	0.01542	mg/L	0.000313	2.03%
Na 589.592†	34898.0	5.391	mg/L	0.0776	10.78	mg/L	0.155	1.44%
Na 330.237†	129.9	5.620	mg/L	0.0807	11.24	mg/L	0.161	1.44%
Ni 231.604†	402.4	0.2029	mg/L	0.00209	0.4058	mg/L	0.00417	1.03%
Pb 220.353†	24321.4	2.853	mg/L	0.0164	5.706	mg/L	0.0329	0.58%
Sb 206.836†	18.4	0.02471	mg/L	0.002701	0.04943	mg/L	0.005401	10.93%
Se 196.026†	-87.5	-0.07195	mg/L	0.004578	-0.1439	mg/L	0.00916	6.36%
Si 288.158†	2568.6	1.772	mg/L	0.0222	3.543	mg/L	0.0445	1.25%
Sn 189.927†	1.5	0.00487	mg/L	0.001308	0.00974	mg/L	0.002616	26.84%
Sr 421.552†	375562.9	0.5184	mg/L	0.00539	1.037	mg/L	0.0108	1.04%
Ti 334.903†	266993.1	10.13	mg/L	0.100	20.27	mg/L	0.201	0.99%
Tl 190.801†	-18.3	-0.02793	mg/L	0.000708	-0.05586	mg/L	0.001417	2.54%
V 292.402†	173269.0	0.6469	mg/L	0.00394	1.294	mg/L	0.0079	0.61%
Zn 206.200†	3488.7	3.460	mg/L	0.0527	6.920	mg/L	0.1055	1.52%

Sequence No.: 6
Sample ID: JQ52R C SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 41
Date Collected: 8/7/2006 2:54:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ52R C SWC

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JQ52R C SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1615585.3	99.73	%	0.619				0.62%
ScR 361.383	216766.5	106.7	%	0.40				0.37%
Ag 328.068†	-2534.8	-0.00010	mg/L	0.000037	-0.00019	mg/L	0.000074	38.83%
Al 308.215†	149182.0	108.4	mg/L	2.38	216.8	mg/L	4.76	2.20%
As 188.979†	81.1	0.04829	mg/L	0.001018	0.09659	mg/L	0.002036	2.11%
B 249.677†	41.1	0.00996	mg/L	0.001702	0.01993	mg/L	0.003404	17.08%
Ba 233.527†	2032.6	0.5932	mg/L	0.01460	1.186	mg/L	0.0292	2.46%
Be 313.042†	1814.8	0.00190	mg/L	0.000063	0.00379	mg/L	0.000126	3.31%
Ca 317.933†	884567.5	41.23	mg/L	0.846	82.47	mg/L	1.691	2.05%
Cd 228.802†	155.9	0.00273	mg/L	0.000109	0.00546	mg/L	0.000219	4.01%
Co 228.616†	4275.7	0.1000	mg/L	0.00043	0.2001	mg/L	0.00085	0.43%
Cr 267.716†	982.3	0.1290	mg/L	0.00263	0.2579	mg/L	0.00525	2.04%
Cu 324.752†	46209.3	0.1938	mg/L	0.00028	0.3877	mg/L	0.00055	0.14%
Fe 273.955†	210658.3	210.8	mg/L	4.56	421.7	mg/L	9.12	2.16%
K 766.490†	6991.6	5.006	mg/L	0.1339	10.01	mg/L	0.268	2.68%
Mg 279.077†	48300.1	32.39	mg/L	0.691	64.78	mg/L	1.382	2.13%
Mn 257.610†	70664.5	2.467	mg/L	0.0522	4.934	mg/L	0.1043	2.11%
Mo 202.031†	45.2	0.00616	mg/L	0.000238	0.01233	mg/L	0.000477	3.87%
Na 589.592†	43084.6	6.656	mg/L	0.1320	13.31	mg/L	0.264	1.98%
Na 330.237†	139.6	6.792	mg/L	0.2434	13.58	mg/L	0.487	3.58%
Ni 231.604†	330.9	0.1669	mg/L	0.00341	0.3338	mg/L	0.00683	2.05%
Pb 220.353†	6656.6	0.7917	mg/L	0.00231	1.583	mg/L	0.0046	0.29%
Sb 206.836†	9.4	0.01858	mg/L	0.004034	0.03715	mg/L	0.008068	21.72%
Se 196.026†	-71.2	-0.05806	mg/L	0.005678	-0.1161	mg/L	0.01136	9.78%
Si 288.158†	1701.7	1.174	mg/L	0.0224	2.347	mg/L	0.0448	1.91%
Sn 189.927†	-29.1	-0.00250	mg/L	0.002745	-0.00501	mg/L	0.005489	109.64%
Sr 421.552†	355791.3	0.4911	mg/L	0.01057	0.9821	mg/L	0.02113	2.15%
Ti 334.903†	289619.0	10.99	mg/L	0.237	21.98	mg/L	0.473	2.15%
Tl 190.801†	-12.3	-0.02296	mg/L	0.003765	-0.04592	mg/L	0.007530	16.40%
V 292.402†	164457.6	0.6125	mg/L	0.00024	1.225	mg/L	0.0005	0.04%
Zn 206.200†	968.6	0.9571	mg/L	0.02043	1.914	mg/L	0.0409	2.13%

Sequence No.: 7 SPK
Sample ID: JQ52R ~~ADUP~~ SWC
Analyst: BLW
Initial Sample Wt: 8.7
Dilution: 2X

Autosampler Location: 42
Date Collected: 8/7/2006 3:00:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ52R ADUP SWC

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JQ52R ADUP SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1633179.6	100.8	%	0.19				0.19%
ScR 361.383	220767.4	108.7	%	0.56				0.51%
Ag 328.068†	138333.3	0.4806	mg/L	0.00117	0.9613	mg/L	0.00233	0.24%
Al 308.215†	254341.1	184.8	mg/L	3.99	369.6	mg/L	7.99	2.16%
As 188.979†	1805.0	1.932	mg/L	0.0072	3.863	mg/L	0.0144	0.37%
B 249.677†	48.9	0.01438	mg/L	0.000730	0.02876	mg/L	0.001459	5.07%
Ba 233.527†	8798.1	2.619	mg/L	0.0963	5.237	mg/L	0.1926	3.68%
Be 313.042†	289987.3	0.4559	mg/L	0.00974	0.9118	mg/L	0.01948	2.14%
Ca 317.933†	996999.5	46.47	mg/L	0.989	92.95	mg/L	1.977	2.13%
Cd 228.802†	15473.2	0.4910	mg/L	0.00180	0.9820	mg/L	0.00359	0.37%
Co 228.616†	19390.0	0.5367	mg/L	0.00246	1.073	mg/L	0.0049	0.46%
Cr 267.716†	5366.5	0.6566	mg/L	0.02284	1.313	mg/L	0.0457	3.48% ✓
Cu 324.752†	259510.7	1.010	mg/L	0.0021	2.019	mg/L	0.0042	0.21%
Fe 273.955†	214853.9	215.0	mg/L	4.41	430.1	mg/L	8.81	2.05%
K 766.490†	20463.8	14.65	mg/L	0.282	29.31	mg/L	0.565	1.93%
Mg 279.077†	65511.6	43.98	mg/L	0.995	87.97	mg/L	1.989	2.26%
Mn 257.610†	108740.1	3.797	mg/L	0.0768	7.595	mg/L	0.1536	2.02%
Mo 202.031†	44.8	0.00754	mg/L	0.000612	0.01508	mg/L	0.001224	8.11%
Na 589.592†	89922.7	13.89	mg/L	0.273	27.78	mg/L	0.546	1.97%
Na 330.237†	408.2	14.34	mg/L	0.376	28.69	mg/L	0.753	2.62%
Ni 231.604†	1231.7	0.6211	mg/L	0.02163	1.242	mg/L	0.0433	3.48%
Pb 220.353†	48823.0	5.689	mg/L	0.0117	11.38	mg/L	0.023	0.21%
Sb 206.836†	28.8	0.02835	mg/L	0.004084	0.05671	mg/L	0.008168	14.40%
Se 196.026†	2342.2	1.813	mg/L	0.0136	3.626	mg/L	0.0272	0.75%
Si 288.158†	2508.3	1.731	mg/L	0.0416	3.462	mg/L	0.0832	2.40%
Sn 189.927†	1.9	0.00608	mg/L	0.001612	0.01216	mg/L	0.003223	26.50%
Sr 421.552†	659355.1	0.9101	mg/L	0.01886	1.820	mg/L	0.0377	2.07%
Ti 334.903†	234721.1	8.908	mg/L	0.1873	17.82	mg/L	0.375	2.10%
Tl 190.801†	1911.8	1.769	mg/L	0.0040	3.538	mg/L	0.0081	0.23%
V 292.402†	281415.1	1.056	mg/L	0.0030	2.111	mg/L	0.0061	0.29%
Zn 206.200†	4254.1	4.221	mg/L	0.1637	8.442	mg/L	0.3274	3.88% ✓

49%

Sequence No.: 8
Sample ID: JQ52R A SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 43
Date Collected: 8/7/2006 3:06:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ52R A SWC

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JQ52R A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1623350.2	100.2	%	0.30				0.30%
ScR 361.383	220285.5	108.5	%	0.35				0.33%
Ag 328.068†	-694.0	0.00678	mg/L	0.000058	0.01356	mg/L	0.000115	0.85%
Al 308.215†	271384.1	197.2	mg/L	6.82	394.4	mg/L	13.65	3.46%
As 188.979†	131.1	0.09768	mg/L	0.005997	0.1954	mg/L	0.01199	6.14%
B 249.677†	59.2	0.01681	mg/L	0.000802	0.03361	mg/L	0.001605	4.77%
Ba 233.527†	2991.5	0.8790	mg/L	0.02757	1.758	mg/L	0.0551	3.14%
Be 313.042†	2364.1	0.00273	mg/L	0.000164	0.00546	mg/L	0.000328	6.00%
Ca 317.933†	860425.1	40.11	mg/L	1.357	80.22	mg/L	2.713	3.38%
Cd 228.802†	698.5	0.01985	mg/L	0.000227	0.03969	mg/L	0.000455	1.15%
Co 228.616†	4082.6	0.09771	mg/L	0.001578	0.1954	mg/L	0.00316	1.62%
Cr 267.716†	1918.3	0.2423	mg/L	0.00731	0.4846	mg/L	0.01462	3.02%
Cu 324.752†	140226.1	0.5551	mg/L	0.00197	1.110	mg/L	0.0039	0.35%
Fe 273.955†	229940.7	230.1	mg/L	7.28	460.3	mg/L	14.56	3.16%
K 766.490†	8823.2	6.318	mg/L	0.1756	12.64	mg/L	0.351	2.78%
Mg 279.077†	56173.1	37.68	mg/L	1.289	75.36	mg/L	2.578	3.42%
Mn 257.610†	108564.5	3.791	mg/L	0.1266	7.582	mg/L	0.2532	3.34%
Mo 202.031†	44.2	0.00791	mg/L	0.000761	0.01582	mg/L	0.001522	9.62%
Na 589.592†	33641.2	5.197	mg/L	0.1814	10.39	mg/L	0.363	3.49%
Na 330.237†	137.5	5.657	mg/L	0.3455	11.31	mg/L	0.691	6.11%
Ni 231.604†	399.3	0.2013	mg/L	0.00431	0.4027	mg/L	0.00862	2.14%
Pb 220.353†	34202.1	3.998	mg/L	0.0106	7.996	mg/L	0.0212	0.27%
Sb 206.836†	24.6	0.03028	mg/L	0.007857	0.06057	mg/L	0.015713	25.94%
Se 196.026†	-89.3	-0.07361	mg/L	0.008970	-0.1472	mg/L	0.01794	12.18%
Si 288.158†	3170.8	2.187	mg/L	0.0496	4.374	mg/L	0.0992	2.27%
Sn 189.927†	18.7	0.00882	mg/L	0.001206	0.01764	mg/L	0.002411	13.67%
Sr 421.552†	352545.5	0.4866	mg/L	0.01688	0.9732	mg/L	0.03375	3.47%
Ti 334.903†	256161.8	9.722	mg/L	0.3395	19.44	mg/L	0.679	3.49%
Tl 190.801†	-12.7	-0.02227	mg/L	0.006636	-0.04455	mg/L	0.013272	29.79%
V 292.402†	170477.2	0.6366	mg/L	0.00378	1.273	mg/L	0.0076	0.59%
Zn 206.200†	4002.1	3.970	mg/L	0.1218	7.940	mg/L	0.2435	3.07%

Sequence No.: 9 DUP
Sample ID: JQ52R ~~ASPK~~ SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 44
Date Collected: 8/7/2006 3:12:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ52R ASPK SWC

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JQ52R ASPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1643449.4	101.4	%	0.39				0.39%
ScR 361.383	220243.4	108.5	%	0.19				0.18%
Ag 328.068†	-784.3	0.00588	mg/L	0.000179	0.01175	mg/L	0.000358	3.04%
Al 308.215†	257108.7	186.8	mg/L	0.74	373.7	mg/L	1.48	0.40%
As 188.979†	119.1	0.08676	mg/L	0.002959	0.1735	mg/L	0.00592	3.41%
B 249.677†	54.0	0.01517	mg/L	0.003720	0.03033	mg/L	0.007440	24.53%
Ba 233.527†	2846.7	0.8367	mg/L	0.00408	1.673	mg/L	0.0082	0.49%
Be 313.042†	2242.4	0.00264	mg/L	0.000011	0.00528	mg/L	0.000022	0.41%
Ca 317.933†	825944.3	38.50	mg/L	0.208	77.00	mg/L	0.416	0.54%
Cd 228.802†	602.2	0.01693	mg/L	0.000160	0.03386	mg/L	0.000319	0.94%
Co 228.616†	3701.3	0.08774	mg/L	0.000402	0.1755	mg/L	0.00080	0.46%
Cr 267.716†	1765.7	0.2232	mg/L	0.00175	0.4463	mg/L	0.00350	0.78%
Cu 324.752†	114107.3	0.4540	mg/L	0.00191	0.9080	mg/L	0.00382	0.42%
Fe 273.955†	214798.7	215.0	mg/L	1.59	430.0	mg/L	3.18	0.74%
K 766.490†	8380.8	6.001	mg/L	0.0620	12.00	mg/L	0.124	1.03%
Mg 279.077†	52695.0	35.35	mg/L	0.098	70.69	mg/L	0.196	0.28%
Mn 257.610†	98746.9	3.448	mg/L	0.0199	6.896	mg/L	0.0398	0.58%
Mo 202.031†	38.3	0.00714	mg/L	0.000041	0.01428	mg/L	0.000082	0.58%
Na 589.592†	32285.0	4.987	mg/L	0.0337	9.975	mg/L	0.0674	0.68%
Na 330.237†	121.0	5.117	mg/L	0.1751	10.23	mg/L	0.350	3.42%
Ni 231.604†	355.7	0.1794	mg/L	0.00229	0.3588	mg/L	0.00459	1.28%
Pb 220.353†	31191.9	3.647	mg/L	0.0121	7.295	mg/L	0.0242	0.33%
Sb 206.836†	19.8	0.02535	mg/L	0.001987	0.05069	mg/L	0.003975	7.84%
Se 196.026†	-66.8	-0.05576	mg/L	0.008178	-0.1115	mg/L	0.01636	14.67%
Si 288.158†	3453.7	2.382	mg/L	0.0119	4.764	mg/L	0.0238	0.50%
Sn 189.927†	-2.7	0.00362	mg/L	0.000930	0.00724	mg/L	0.001860	25.67%
Sr 421.552†	345431.6	0.4768	mg/L	0.00219	0.9535	mg/L	0.00438	0.46%
Ti 334.903†	244845.2	9.292	mg/L	0.0438	18.58	mg/L	0.088	0.47%
Tl 190.801†	-10.1	-0.01933	mg/L	0.007983	-0.03865	mg/L	0.015966	41.31%
V 292.402†	153280.5	0.5722	mg/L	0.00162	1.144	mg/L	0.0032	0.28%
Zn 206.200†	3588.6	3.560	mg/L	0.0187	7.120	mg/L	0.0374	0.53%

Sequence No.: 10
Sample ID: JQ35R MB1SPK SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 45
Date Collected: 8/7/2006 3:19:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35R MB1SPK SWC

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: JQ35R MB1SPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1571037.9	96.98	%	1.178				1.21%
ScR 361.383	206855.8	101.9	%	0.76				0.74%
Ag 328.068†	153886.8	0.5252	mg/L	0.00639	1.050	mg/L	0.0128	1.22%
Al 308.215†	2821.7	2.042	mg/L	0.0839	4.083	mg/L	0.1677	4.11%
As 188.979†	1973.0	2.157	mg/L	0.0269	4.315	mg/L	0.0538	1.25%
B 249.677†	16.1	0.00619	mg/L	0.002622	0.01238	mg/L	0.005244	42.36%
Ba 233.527†	6518.6	1.952	mg/L	0.0678	3.903	mg/L	0.1357	3.48%
Be 313.042†	316869.4	0.4991	mg/L	0.01856	0.9983	mg/L	0.03712	3.72%
Ca 317.933†	213141.2	9.936	mg/L	0.3589	19.87	mg/L	0.718	3.61%
Cd 228.802†	16889.8	0.5383	mg/L	0.00697	1.077	mg/L	0.0139	1.29%
Co 228.616†	18180.2	0.5195	mg/L	0.00779	1.039	mg/L	0.0156	1.50%
Cr 267.716†	4083.4	0.4916	mg/L	0.01740	0.9832	mg/L	0.03480	3.54%
Cu 324.752†	137364.6	0.5250	mg/L	0.00676	1.050	mg/L	0.0135	1.29%
Fe 273.955†	2067.6	2.068	mg/L	0.0826	4.136	mg/L	0.1652	3.99%
K 766.490†	14453.0	10.35	mg/L	0.396	20.70	mg/L	0.792	3.83%
Mg 279.077†	15115.4	10.18	mg/L	0.365	20.37	mg/L	0.730	3.59%
Mn 257.610†	13847.0	0.4839	mg/L	0.01772	0.9679	mg/L	0.03545	3.66%
Mo 202.031†	28.5	0.00266	mg/L	0.000537	0.00532	mg/L	0.001074	20.17%
Na 589.592†	65564.3	10.13	mg/L	0.339	20.26	mg/L	0.677	3.34%
Na 330.237†	321.5	10.48	mg/L	0.132	20.97	mg/L	0.264	1.26%
Ni 231.604†	987.5	0.4980	mg/L	0.01640	0.9959	mg/L	0.03280	3.29%
Pb 220.353†	18482.7	2.141	mg/L	0.0222	4.282	mg/L	0.0444	1.04%
Sb 206.836†	10.1	0.00353	mg/L	0.003841	0.00706	mg/L	0.007682	108.79%
Se 196.026†	2819.7	2.187	mg/L	0.0237	4.374	mg/L	0.0475	1.08%
Si 288.158†	15.5	0.01175	mg/L	0.000709	0.02350	mg/L	0.001418	6.03%
Sn 189.927†	-16.6	-0.00226	mg/L	0.001771	-0.00453	mg/L	0.003543	78.22%
Sr 421.552†	354923.8	0.4899	mg/L	0.01773	0.9798	mg/L	0.03545	3.62%
Ti 334.903†	70.1	0.00255	mg/L	0.000754	0.00511	mg/L	0.001507	29.51%
Tl 190.801†	2279.0	2.120	mg/L	0.0226	4.241	mg/L	0.0453	1.07%
V 292.402†	142729.8	0.5385	mg/L	0.00641	1.077	mg/L	0.0128	1.19%
Zn 206.200†	516.1	0.5127	mg/L	0.01726	1.025	mg/L	0.0345	3.37%

Sequence No.: 11
Sample ID: CV 4
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/7/2006 3:25:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1552629.6	95.84	%	0.213				0.22%
ScR 361.383	207147.9	102.0	%	0.57				0.55%
Ag 328.068†	295727.8	1.009	mg/L	0.0019	1.009	mg/L	0.0019	0.19%
Al 308.215†	2828.2	2.018	mg/L	0.0128	2.018	mg/L	0.0128	0.63%
As 188.979†	1872.6	2.044	mg/L	0.0105	2.044	mg/L	0.0105	0.51%
B 249.677†	2976.8	0.9890	mg/L	0.00760	0.9890	mg/L	0.00760	0.77%
Ba 233.527†	3306.1	0.9895	mg/L	0.00673	0.9895	mg/L	0.00673	0.68%
Be 313.042†	626574.4	0.9871	mg/L	0.00317	0.9871	mg/L	0.00317	0.32%
Ca 317.933†	43877.1	2.045	mg/L	0.0079	2.045	mg/L	0.0079	0.39%
Cd 228.802†	32206.7	1.030	mg/L	0.0019	1.030	mg/L	0.0019	0.19%
Co 228.616†	34943.9	0.9979	mg/L	0.00299	0.9979	mg/L	0.00299	0.30%
Cr 267.716†	7991.6	0.9644	mg/L	0.00480	0.9644	mg/L	0.00480	0.50%
Cu 324.752†	275547.3	1.052	mg/L	0.0017	1.052	mg/L	0.0017	0.16%
Fe 273.955†	2032.4	2.032	mg/L	0.0146	2.032	mg/L	0.0146	0.72%
K 766.490†	28619.2	20.49	mg/L	0.098	20.49	mg/L	0.098	0.48%
Mg 279.077†	3050.7	2.059	mg/L	0.0111	2.059	mg/L	0.0111	0.54%
Mn 257.610†	27339.4	0.9554	mg/L	0.00618	0.9554	mg/L	0.00618	0.65%
Mo 202.031†	10002.8	1.004	mg/L	0.0026	1.004	mg/L	0.0026	0.26%
Na 589.592†	325735.6	50.32	mg/L	0.143	50.32	mg/L	0.143	0.28%
Na 330.237†	1526.8	50.80	mg/L	0.223	50.80	mg/L	0.223	0.44%
Ni 231.604†	2001.4	1.010	mg/L	0.0059	1.010	mg/L	0.0059	0.59%
Pb 220.353†	17300.3	2.005	mg/L	0.0050	2.005	mg/L	0.0050	0.25%
Sb 206.836†	2257.5	2.141	mg/L	0.0049	2.141	mg/L	0.0049	0.23%
Se 196.026†	2665.7	2.067	mg/L	0.0088	2.067	mg/L	0.0088	0.43%
Si 288.158†	2962.1	2.045	mg/L	0.0147	2.045	mg/L	0.0147	0.72%
Sn 189.927†	4120.7	0.9706	mg/L	0.00425	0.9706	mg/L	0.00425	0.44%
Sr 421.552†	715632.2	0.9877	mg/L	0.00257	0.9877	mg/L	0.00257	0.26%
Ti 334.903†	26719.5	1.013	mg/L	0.0023	1.013	mg/L	0.0023	0.22%
Tl 190.801†	2169.7	2.018	mg/L	0.0006	2.018	mg/L	0.0006	0.03%
V 292.402†	269829.8	1.019	mg/L	0.0017	1.019	mg/L	0.0017	0.17%
Zn 206.200†	1040.0	1.032	mg/L	0.0076	1.032	mg/L	0.0076	0.73%

Sequence No.: 12
Sample ID: CB 4
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/7/2006 3:31:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	160.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1578727.6	97.45	%	0.217				0.22%
ScR 361.383	201890.5	99.42	%	0.098				0.10%
Ag 328.068†	9.6	0.00003	mg/L	0.000306	0.00003	mg/L	0.000306	930.60%
Al 308.215†	20.6	0.01494	mg/L	0.008185	0.01494	mg/L	0.008185	54.79%
As 188.979†	7.3	0.00794	mg/L	0.003558	0.00794	mg/L	0.003558	44.78%
B 249.677†	23.8	0.00789	mg/L	0.002086	0.00789	mg/L	0.002086	26.43%
Ba 233.527†	-1.9	-0.00057	mg/L	0.000528	-0.00057	mg/L	0.000528	92.97%
Be 313.042†	13.7	0.00002	mg/L	0.000056	0.00002	mg/L	0.000056	262.17%
Ca 317.933†	37.8	0.00176	mg/L	0.001898	0.00176	mg/L	0.001898	107.75%
Cd 228.802†	4.9	0.00014	mg/L	0.000072	0.00014	mg/L	0.000072	49.70%
Co 228.616†	-1.2	-0.00003	mg/L	0.000223	-0.00003	mg/L	0.000223	649.82%
Cr 267.716†	11.6	0.00140	mg/L	0.000420	0.00140	mg/L	0.000420	29.93%
Cu 324.752†	241.0	0.00092	mg/L	0.000084	0.00092	mg/L	0.000084	9.18%
Fe 273.955†	1.8	0.00180	mg/L	0.002308	0.00180	mg/L	0.002308	128.39%
K 766.490†	93.1	0.06668	mg/L	0.023798	0.06668	mg/L	0.023798	35.69%
Mg 279.077†	-14.9	-0.01002	mg/L	0.010926	-0.01002	mg/L	0.010926	109.07%
Mn 257.610†	5.3	0.00019	mg/L	0.000053	0.00019	mg/L	0.000053	28.33%
Mo 202.031†	9.2	0.00092	mg/L	0.000160	0.00092	mg/L	0.000160	17.35%
Na 589.592†	-47.5	-0.00734	mg/L	0.002797	-0.00734	mg/L	0.002797	38.13%
Na 330.237†	6.5	0.2144	mg/L	0.24667	0.2144	mg/L	0.24667	115.07%
Ni 231.604†	-2.7	-0.00134	mg/L	0.001602	-0.00134	mg/L	0.001602	119.63%
Pb 220.353†	46.5	0.00539	mg/L	0.001059	0.00539	mg/L	0.001059	19.65%
Sb 206.836†	-0.5	-0.00044	mg/L	0.002313	-0.00044	mg/L	0.002313	529.39%
Se 196.026†	7.7	0.00598	mg/L	0.003438	0.00598	mg/L	0.003438	57.50%
Si 288.158†	4.8	0.00333	mg/L	0.002311	0.00333	mg/L	0.002311	69.42%
Sn 189.927†	9.5	0.00222	mg/L	0.000048	0.00222	mg/L	0.000048	2.17%
Sr 421.552†	-5.1	-0.00001	mg/L	0.000067	-0.00001	mg/L	0.000067	950.55%
Ti 334.903†	28.6	0.00109	mg/L	0.000666	0.00109	mg/L	0.000666	61.32%
Tl 190.801†	5.7	0.00534	mg/L	0.001434	0.00534	mg/L	0.001434	26.85%
V 292.402†	47.2	0.00019	mg/L	0.000128	0.00019	mg/L	0.000128	68.48%
Zn 206.200†	3.5	0.00347	mg/L	0.001463	0.00347	mg/L	0.001463	42.17%

OPTIMA ICP SAMPLE RUN LOG

IEC Date: 6.19.06 Analysis Date: 8.01.06 Analyst: JMB

LR Date: 6.19.06 Page: 1 of 4

All corrections made by analyst unless otherwise noted. 8.1.6 JMB

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		STD 1			2290-10
		2			-11
		3			-12
		4			2291-1
		5			-2
		ICV			2291-9
		ICB			
		Dil Blank			✓ info only
Z		~~CRI~~ 222222			Ba, Mg, Low, Ti, high
		STD 1			
		CCV 1			
		CCB 1			
		CRI			
		ICSA			
		ICSAB			
		CCV 2			
		CCB 2			
		JQ42 MB	TWC		Zn 0.00008
		A			
		B			
		C			
		D			
		E			
		F			

OPTIMA ICP SAMPLE RUN LOG

IEC Date: — Analysis Date: 8.1.06 Analyst: JLB

LR Date: — Page: 2 of 4

All corrections made by analyst unless otherwise noted. 8.1.06 JLB

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		JQ42 G	TUC		
		H			
		I			
		CCV3			
		CCB3			
		JQ43 MB	SWC	2	
		A			
		B			
		C			
	✓	D			~~rerun 5X (Fe)~~
		E			
		F			
		G			
		H			
		I			
		CCV4			
		CCB4			
		JQ35 MB1	SWC	2	Zn 0.00657mg/L J.N.
		B			
		C			
	✓	D			rerun 5X (Fe)
		E			
		F			
		ADUP			

OPTIMA ICP SAMPLE RUN LOG

IEC Date: — Analysis Date: 8.1.6 Analyst: JLB

LR Date: — Page: 3 of 4

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		JQ35A	SWC	2	
		↓ ASPK	↓	↓	↑ 8.2.6 JLB
		JQ35MBISPK	↓	↓	↓ (Zn 240% CAF
		CCV5			
		CCB5			
		JQ35G	SWC	2	
		H	↓	↓	
		I	↓	↓	
		J	↓	↓	
		K	↓	↓	
		L	↓	↓	
		M	↓	↓	
		N	↓	↓	
		O	↓	↓	
		P	↓	↓	
		CCV6			
		CCB6			
		JR03MB	SWC	2	Zn 0.00855 mg/L AN.
		JQ35D	↓	5	
		JR03A	↓	2	
		↓ B	↓	↓	
		JR04A	↓	↓	
		↓ B	↓	↓	
		↓ C	↓	↓	

OPTIMA ICP SAMPLE RUN LOG

IEC Date: — Analysis Date: 8.7.06 Analyst: JB

LR Date: — Page: 4 of 4

All corrections made by analyst unless otherwise noted. 8.2.6 JB

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		JR05 N	SWC	2	
		↓ O	↓	↓	
		JR03 REF	↓	5 ✓	
		CCV7			
		CCB7			endpkg
		JR06 MB	SWC	2 ✓	
		JR05 Q	↓	↓	
		JR06 A	↓	↓	
	✓	↓ B	↓	5	rerun 10X (Fe)
	✓	C	↓	2	↓ 5X (Fe)
		D	↓	5	
	✓	E	↓	↓	rerun 10X (Fe)
		F	↓	↓	
		G	↓	↓	
		↓ REF	↓	2 ✓	
		CCV			
		CCB			
	✓	JR06 H	SWC	5	rerun 10X (Fe)
		JR05 P	↓	2	
		2278-2		10	info only
		CCV			
		CCB			

JB 8/2/6

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: (ICP)/ICP-MS GFA CVA **Analysis Date:** 8.1.04

	Analyst JB 8.2.4	Peer BW 8.2	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	✓	✓	
ICB/CCB	✓	✓	
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	✓	✓	
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	✓	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	JQ35 CAF
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	JQ35, JR03AN
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	✓	✓	JQ35, JR03

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	187.0 kPa	0.50 L/min

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8/1/2006 9:29:12 AM Hg ReAlign... Actual peak offset (nm): -0.001
Drift (nm): -0.000 Slit adjustment: -2

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Analysis Begun

Start Time: 8/1/2006 9:31:05 AM **Plasma On Time: 8/1/2006 8:42:58 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: PE060801
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

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Ti 334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Zn 206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
ScA 357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

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Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Calib Blank 1 **Date Collected: 8/1/2006 9:31:05 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	187.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1536035.8	7955.17	0.52%	100.00	%
ScR 361.383	182122.6	1038.99	0.57%	100.0	%
Ag 328.068†	732.1	89.91	12.28%	[0.00]	mg/L
Al 308.215†	-198.9	13.80	6.94%	[0.00]	mg/L
As 188.979†	19.9	2.08	10.42%	[0.00]	mg/L
B 249.677†	-12.0	3.75	31.16%	[0.00]	mg/L
Ba 233.527†	28.1	1.16	4.12%	[0.00]	mg/L
Be 313.042†	1318.6	8.88	0.67%	[0.00]	mg/L
Ca 317.933†	100.1	27.26	27.24%	[0.00]	mg/L
Cd 228.802†	117.5	0.56	0.48%	[0.00]	mg/L
Co 228.616†	-2.0	6.37	312.97%	[0.00]	mg/L
Cr 267.716†	24.7	7.26	29.36%	[0.00]	mg/L
Cu 324.752†	3630.8	14.92	0.41%	[0.00]	mg/L
Fe 273.955†	-24.0	2.55	10.65%	[0.00]	mg/L
K 766.490†	1732.6	107.53	6.21%	[0.00]	mg/L
Mg 279.077†	-80.5	14.72	18.27%	[0.00]	mg/L
Mn 257.610†	155.5	4.29	2.76%	[0.00]	mg/L
Mo 202.031†	-27.4	2.07	7.54%	[0.00]	mg/L
Na 589.592†	-571.9	30.34	5.30%	[0.00]	mg/L
Na 330.237†	-111.7	4.58	4.10%	[0.00]	mg/L
Ni 231.604†	-1.7	2.69	159.61%	[0.00]	mg/L
Pb 220.353†	160.1	2.94	1.83%	[0.00]	mg/L
Sb 206.836†	13.1	1.53	11.68%	[0.00]	mg/L
Se 196.026†	-84.3	6.40	7.60%	[0.00]	mg/L
Si 288.158†	-85.5	6.66	7.79%	[0.00]	mg/L
Sn 189.927†	9.9	1.78	17.87%	[0.00]	mg/L
Sr 421.552†	-1212.0	40.99	3.38%	[0.00]	mg/L
Ti 334.903†	-202.8	15.97	7.87%	[0.00]	mg/L
Tl 190.801†	-9.1	0.07	0.75%	[0.00]	mg/L
V 292.402†	-34.5	54.69	158.62%	[0.00]	mg/L
Zn 206.200†	-2.5	0.83	33.24%	[0.00]	mg/L

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

Autosampler Location: 2
Date Collected: 8/1/2006 9:37:27 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	187.0 kPa	0.50 L/min

Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1524457.5	9369.02	0.61%	99.25	%
ScR 361.383	179712.1	748.72	0.42%	98.68	%
Ba 233.527†	28998.8	50.04	0.17%	[10]	mg/L
Cd 228.802†	284547.5	327.05	0.11%	[10]	mg/L
Co 228.616†	318331.2	205.95	0.06%	[10]	mg/L
Cr 267.716†	74237.6	57.89	0.08%	[10]	mg/L
Cu 324.752†	2510626.0	1619.65	0.06%	[10]	mg/L
Mn 257.610†	273708.1	344.50	0.13%	[10]	mg/L
V 292.402†	2488124.9	3609.79	0.15%	[10]	mg/L

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

Autosampler Location: 3
Date Collected: 8/1/2006 9:41:39 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	187.0 kPa	0.50 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1507872.2	12346.21	0.82%	98.17	%
ScR 361.383	181192.9	722.69	0.40%	99.49	%
Ag 328.068†	279126.8	830.21	0.30%	[1.0]	mg/L
As 188.979†	8191.2	102.76	1.25%	[10]	mg/L
B 249.677†	31598.0	99.06	0.31%	[10]	mg/L
Be 313.042†	3056621.8	5759.45	0.19%	[5.0]	mg/L
Na 589.592†	305211.7	489.55	0.16%	[50]	mg/L
Ni 231.604†	17800.7	63.90	0.36%	[10]	mg/L
Pb 220.353†	76205.8	342.66	0.45%	[10]	mg/L
Se 196.026†	11339.5	171.30	1.51%	[10]	mg/L
Sr 421.552†	3269191.1	5877.68	0.18%	[5]	mg/L
Tl 190.801†	9960.3	116.24	1.17%	[10]	mg/L
Zn 206.200†	8690.4	37.50	0.43%	[10]	mg/L

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

Autosampler Location: 4
Date Collected: 8/1/2006 9:46:24 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	188.0 kPa	0.50 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1541190.6	11580.98	0.75%	100.3	%
ScR 361.383	180114.4	1187.64	0.66%	98.90	%
Mo 202.031†	91795.7	646.64	0.70%	[10]	mg/L
Sb 206.836†	9733.1	82.23	0.84%	[10]	mg/L
Si 288.158†	13964.3	55.11	0.39%	[10]	mg/L
Sn 189.927†	37487.3	450.56	1.20%	[10]	mg/L
Ti 334.903†	239964.2	565.14	0.24%	[10]	mg/L

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

Autosampler Location: 5
Date Collected: 8/1/2006 9:51:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	188.0 kPa	0.50 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1460170.8	1267.33	0.09%	95.06	%
ScR 361.383	177282.9	1233.43	0.70%	97.34	%
Al 308.215†	40039.4	413.49	1.03%	[30]	mg/L
Ca 317.933†	528198.7	864.66	0.16%	[30]	mg/L
Fe 273.955†	91564.6	962.99	1.05%	[100]	mg/L
K 766.490†	118405.0	740.60	0.63%	[100]	mg/L
Mg 279.077†	39326.1	463.38	1.18%	[30]	mg/L
Na 330.237†	2971.9	23.96	0.81%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	279100	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1335	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	819.1	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	3160	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	2900	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	611300	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	17610	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	28450	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	31830	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	7424	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	251100	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	915.6	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1184	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1311	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	27370	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	9180	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	6104	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	29.72	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1780	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	7621	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	973.3	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1134	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1396	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3749	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	653800	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	24000	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	996.0	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	248800	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	869.0	0.00000	1.000000	

Analysis Begun

Start Time: 8/1/2006 10:28:54 AM
Plasma On Time: 8/1/2006 8:42:58 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: PE060801
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution: 1X
Autosampler Location: 7
Date Collected: 8/1/2006 10:28:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	188.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1479674.4	96.33	%	0.378				0.39%
ScR 361.383	179835.7	98.74	%	1.293				1.31%
Ag 328.068†	277578.9	0.9946	mg/L	0.00578	0.9946	mg/L	0.00578	0.58%
Al 308.215†	2686.0	1.975	mg/L	0.0248	1.975	mg/L	0.0248	1.25%
As 188.979†	1642.1	2.000	mg/L	0.0086	2.000	mg/L	0.0086	0.43%
B 249.677†	3027.1	0.9613	mg/L	0.00848	0.9613	mg/L	0.00848	0.88%
Ba 233.527†	2766.8	0.9536	mg/L	0.00967	0.9536	mg/L	0.00967	1.01%
Be 313.042†	592472.8	0.9676	mg/L	0.00252	0.9676	mg/L	0.00252	0.26%
Ca 317.933†	35509.2	2.017	mg/L	0.0072	2.017	mg/L	0.0072	0.35%
Cd 228.802†	29332.7	1.028	mg/L	0.0048	1.028	mg/L	0.0048	0.47%
Co 228.616†	31795.3	0.9972	mg/L	0.00440	0.9972	mg/L	0.00440	0.44%
Cr 267.716†	6915.3	0.9305	mg/L	0.01037	0.9305	mg/L	0.01037	1.11%
Cu 324.752†	259934.6	1.035	mg/L	0.0066	1.035	mg/L	0.0066	0.64%
Fe 273.955†	1809.3	1.974	mg/L	0.0228	1.974	mg/L	0.0228	1.15%
K 766.490†	23762.8	20.07	mg/L	0.184	20.07	mg/L	0.184	0.92%
Mg 279.077†	2625.0	2.006	mg/L	0.0253	2.006	mg/L	0.0253	1.26%
Mn 257.610†	25429.5	0.9295	mg/L	0.00318	0.9295	mg/L	0.00318	0.34%
Mo 202.031†	9252.1	1.008	mg/L	0.0053	1.008	mg/L	0.0053	0.53%
Na 589.592†	305606.1	50.06	mg/L	0.263	50.06	mg/L	0.263	0.53%
Na 330.237†	1510.3	50.80	mg/L	0.353	50.80	mg/L	0.353	0.70%
Ni 231.604†	1740.1	0.9786	mg/L	0.01021	0.9786	mg/L	0.01021	1.04%
Pb 220.353†	15137.5	1.988	mg/L	0.0209	1.988	mg/L	0.0209	1.05%
Sb 206.836†	1842.3	1.894	mg/L	0.0140	1.894	mg/L	0.0140	0.74%
Se 196.026†	2291.4	2.020	mg/L	0.0231	2.020	mg/L	0.0231	1.14%
Si 288.158†	2835.8	2.033	mg/L	0.0232	2.033	mg/L	0.0232	1.14%
Sn 189.927†	3579.8	0.9586	mg/L	0.00917	0.9586	mg/L	0.00917	0.96%
Sr 421.552†	641010.4	0.9804	mg/L	0.00485	0.9804	mg/L	0.00485	0.49%
Ti 334.903†	23852.6	0.9928	mg/L	0.00361	0.9928	mg/L	0.00361	0.36%
Tl 190.801†	1981.8	1.986	mg/L	0.0199	1.986	mg/L	0.0199	1.00%
V 292.402†	246758.5	0.9987	mg/L	0.00585	0.9987	mg/L	0.00585	0.59%
Zn 206.200†	853.3	0.9810	mg/L	0.00961	0.9810	mg/L	0.00961	0.98%

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

Autosampler Location: 1
Date Collected: 8/1/2006 10:35:19 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	189.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1519467.6	98.92	%	0.298				0.30%
ScR 361.383	181564.7	99.69	%	0.256				0.26%
Ag 328.068†	48.2	0.00017	mg/L	0.000049	0.00017	mg/L	0.000049	28.16%
Al 308.215†	-18.8	-0.01411	mg/L	0.007964	-0.01411	mg/L	0.007964	56.42%
As 188.979†	2.4	0.00296	mg/L	0.003732	0.00296	mg/L	0.003732	126.10%
B 249.677†	17.6	0.00556	mg/L	0.000836	0.00556	mg/L	0.000836	15.03%
Ba 233.527†	-2.5	-0.00085	mg/L	0.001277	-0.00085	mg/L	0.001277	151.00%
Be 313.042†	13.9	0.00002	mg/L	0.000058	0.00002	mg/L	0.000058	257.91%
Ca 317.933†	-13.9	-0.00079	mg/L	0.000346	-0.00079	mg/L	0.000346	43.90%
Cd 228.802†	8.2	0.00028	mg/L	0.000072	0.00028	mg/L	0.000072	25.45%
Co 228.616†	2.6	0.00008	mg/L	0.000145	0.00008	mg/L	0.000145	185.30%
Cr 267.716†	14.6	0.00196	mg/L	0.000467	0.00196	mg/L	0.000467	23.78%
Cu 324.752†	111.5	0.00044	mg/L	0.000052	0.00044	mg/L	0.000052	11.80%
Fe 273.955†	0.2	0.00023	mg/L	0.001966	0.00023	mg/L	0.001966	860.39%
K 766.490†	44.2	0.03730	mg/L	0.039607	0.03730	mg/L	0.039607	106.20%
Mg 279.077†	-12.7	-0.00965	mg/L	0.005573	-0.00965	mg/L	0.005573	57.74%
Mn 257.610†	3.9	0.00014	mg/L	0.000241	0.00014	mg/L	0.000241	170.37%
Mo 202.031†	6.2	0.00067	mg/L	0.000482	0.00067	mg/L	0.000482	71.82%
Na 589.592†	63.9	0.01047	mg/L	0.005110	0.01047	mg/L	0.005110	48.80%
Na 330.237†	10.7	0.3603	mg/L	0.44999	0.3603	mg/L	0.44999	124.88%
Ni 231.604†	0.6	0.00035	mg/L	0.002493	0.00035	mg/L	0.002493	718.56%
Pb 220.353†	19.0	0.00249	mg/L	0.000268	0.00249	mg/L	0.000268	10.77%
Sb 206.836†	1.9	0.00194	mg/L	0.001777	0.00194	mg/L	0.001777	91.81%
Se 196.026†	7.1	0.00629	mg/L	0.007504	0.00629	mg/L	0.007504	119.25%
Si 288.158†	4.2	0.00302	mg/L	0.001853	0.00302	mg/L	0.001853	61.26%
Sn 189.927†	8.5	0.00227	mg/L	0.000524	0.00227	mg/L	0.000524	23.02%
Sr 421.552†	105.3	0.00016	mg/L	0.000018	0.00016	mg/L	0.000018	11.46%
Ti 334.903†	43.2	0.00180	mg/L	0.000344	0.00180	mg/L	0.000344	19.14%
Tl 190.801†	-0.8	-0.00075	mg/L	0.001971	-0.00075	mg/L	0.001971	261.29%
V 292.402†	39.9	0.00017	mg/L	0.000098	0.00017	mg/L	0.000098	56.45%
Zn 206.200†	2.7	0.00306	mg/L	0.002159	0.00306	mg/L	0.002159	70.49%

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

Autosampler Location: 6
Date Collected: 8/1/2006 10:41:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: dil blank

Analyte	Back Pressure	Flow
All	188.0 kPa	0.50 L/min

Mean Data: dil blank

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1508643.2	98.22	%	0.575				0.59%
ScR 361.383	180670.4	99.20	%	0.511				0.52%
Ag 328.068†	29.7	0.00011	mg/L	0.000091	0.00011	mg/L	0.000091	85.18%
Al 308.215†	-3.7	-0.00280	mg/L	0.011985	-0.00280	mg/L	0.011985	427.49%
As 188.979†	3.6	0.00435	mg/L	0.002696	0.00435	mg/L	0.002696	62.03%
B 249.677†	7.7	0.00244	mg/L	0.000986	0.00244	mg/L	0.000986	40.46%
Ba 233.527†	-1.5	-0.00051	mg/L	0.000634	-0.00051	mg/L	0.000634	124.35%
Be 313.042†	-6.1	-0.00001	mg/L	0.000027	-0.00001	mg/L	0.000027	272.89%
Ca 317.933†	-6.8	-0.00039	mg/L	0.001367	-0.00039	mg/L	0.001367	354.45%
Cd 228.802†	5.5	0.00019	mg/L	0.000091	0.00019	mg/L	0.000091	48.86%
Co 228.616†	-1.9	-0.00006	mg/L	0.000196	-0.00006	mg/L	0.000196	321.89%
Cr 267.716†	12.2	0.00165	mg/L	0.001123	0.00165	mg/L	0.001123	68.06%
Cu 324.752†	103.9	0.00041	mg/L	0.000046	0.00041	mg/L	0.000046	11.19%
Fe 273.955†	1.5	0.00158	mg/L	0.003296	0.00158	mg/L	0.003296	208.05%
K 766.490†	48.2	0.04074	mg/L	0.017356	0.04074	mg/L	0.017356	42.60%
Mg 279.077†	-32.7	-0.02496	mg/L	0.005355	-0.02496	mg/L	0.005355	21.46%
Mn 257.610†	4.4	0.00016	mg/L	0.000105	0.00016	mg/L	0.000105	65.93%
Mo 202.031†	2.0	0.00022	mg/L	0.000153	0.00022	mg/L	0.000153	68.22%
Na 589.592†	4.1	0.00067	mg/L	0.004815	0.00067	mg/L	0.004815	723.37%
Na 330.237†	-4.4	-0.1498	mg/L	0.52033	-0.1498	mg/L	0.52033	347.38%
Ni 231.604†	3.2	0.00181	mg/L	0.001780	0.00181	mg/L	0.001780	98.11%
Pb 220.353†	12.3	0.00161	mg/L	0.000158	0.00161	mg/L	0.000158	9.77%
Sb 206.836†	1.6	0.00164	mg/L	0.003297	0.00164	mg/L	0.003297	200.88%
Se 196.026†	2.5	0.00221	mg/L	0.003669	0.00221	mg/L	0.003669	166.39%
Si 288.158†	0.2	0.00011	mg/L	0.006479	0.00011	mg/L	0.006479	>999.9%
Sn 189.927†	7.3	0.00194	mg/L	0.001785	0.00194	mg/L	0.001785	91.98%
Sr 421.552†	56.1	0.00009	mg/L	0.000057	0.00009	mg/L	0.000057	66.55%
Ti 334.903†	14.8	0.00062	mg/L	0.001262	0.00062	mg/L	0.001262	204.38%
Tl 190.801†	-1.3	-0.00134	mg/L	0.000526	-0.00134	mg/L	0.000526	39.28%
V 292.402†	18.3	0.00009	mg/L	0.000067	0.00009	mg/L	0.000067	78.27%
Zn 206.200†	2.3	0.00268	mg/L	0.002037	0.00268	mg/L	0.002037	75.91%

Sequence No.: 4
Sample ID: ~~CRI~~ 222222
Analyst:
Initial Sample Wt: 8.1.6 JB
Dilution: 1X

Autosampler Location: 8
Date Collected: 8/1/2006 10:48:07 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	188.0 kPa	0.50 L/min

Mean Data: ~~CRI~~

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1530936.9	99.67	%	0.592				0.59%
ScR 361.383	181613.8	99.72	%	0.846				0.85%
Ag 328.068†	846.4	0.00303	mg/L	0.000159	0.00303	mg/L	0.000159	5.23%
Al 308.215†	62.3	0.04654	mg/L	0.013845	0.04654	mg/L	0.013845	29.75%
As 188.979†	45.3	0.05522	mg/L	0.001870	0.05522	mg/L	0.001870	3.39%
B 249.677†	66.3	0.02102	mg/L	0.001145	0.02102	mg/L	0.001145	5.45%
Ba 233.527†	6.3	0.00217	mg/L ~low	0.000842	0.00217	mg/L	0.000842	38.78%
Be 313.042†	597.3	0.00097	mg/L	0.000047	0.00097	mg/L	0.000047	4.84%
Ca 317.933†	981.1	0.05573	mg/L	0.000694	0.05573	mg/L	0.000694	1.25%
Cd 228.802†	64.8	0.00220	mg/L	0.000084	0.00220	mg/L	0.000084	3.83%
Co 228.616†	96.3	0.00302	mg/L	0.000135	0.00302	mg/L	0.000135	4.47%
Cr 267.716†	46.0	0.00620	mg/L	0.000796	0.00620	mg/L	0.000796	12.84%
Cu 324.752†	575.3	0.00229	mg/L	0.000200	0.00229	mg/L	0.000200	8.73%
Fe 273.955†	49.5	0.05407	mg/L	0.002356	0.05407	mg/L	0.002356	4.36%
K 766.490†	657.5	0.5553	mg/L	0.05495	0.5553	mg/L	0.05495	9.90%
Mg 279.077†	40.2	0.03068	mg/L ~low	0.005089	0.03068	mg/L	0.005089	16.59%
Mn 257.610†	30.9	0.00113	mg/L	0.000045	0.00113	mg/L	0.000045	3.97%
Mo 202.031†	48.2	0.00525	mg/L	0.000620	0.00525	mg/L	0.000620	11.83%
Na 589.592†	3328.6	0.5453	mg/L	0.00435	0.5453	mg/L	0.00435	0.80%
Na 330.237†	12.6	0.4218	mg/L	0.45703	0.4218	mg/L	0.45703	108.35%
Ni 231.604†	18.5	0.01042	mg/L	0.001046	0.01042	mg/L	0.001046	10.03%
Pb 220.353†	162.0	0.02129	mg/L	0.000312	0.02129	mg/L	0.000312	1.47%
Sb 206.836†	54.9	0.05648	mg/L	0.001551	0.05648	mg/L	0.001551	2.75%
Se 196.026†	61.6	0.05432	mg/L	0.002504	0.05432	mg/L	0.002504	4.61%
Si 288.158†	83.4	0.05975	mg/L	0.001264	0.05975	mg/L	0.001264	2.12%
Sn 189.927†	38.1	0.01026	mg/L	0.001038	0.01026	mg/L	0.001038	10.11%
Sr 421.552†	747.6	0.00114	mg/L	0.000066	0.00114	mg/L	0.000066	5.78%
Ti 334.903†	151.4	0.00630	mg/L ~hi	0.000780	0.00630	mg/L	0.000780	12.38%
Tl 190.801†	48.2	0.04843	mg/L	0.001101	0.04843	mg/L	0.001101	2.27%
V 292.402†	782.0	0.00319	mg/L	0.000055	0.00319	mg/L	0.000055	1.71%
Zn 206.200†	6.4	0.00735	mg/L ~hi	0.002803	0.00735	mg/L	0.002803	38.11%

Analysis Begun

Start Time: 8/1/2006 11:02:02 AM
Plasma On Time: 8/1/2006 8:42:58 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: PE060801
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 9
Autosampler Location:
Sample ID: Calib Blank 1
Date Collected: 8/1/2006 11:02:02 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	188.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1519037.3	2256.26	0.15%	98.89	%
ScR 361.383	180852.5	602.14	0.33%	99.30	%
Ag 328.068†	741.9	43.29	5.83%	[0.00]	mg/L
Al 308.215†	-201.9	20.46	10.13%	[0.00]	mg/L
As 188.979†	24.3	0.86	3.53%	[0.00]	mg/L
B 249.677†	-6.8	6.64	97.17%	[0.00]	mg/L
Ba 233.527†	25.7	1.88	7.32%	[0.00]	mg/L
Be 313.042†	1307.0	10.53	0.81%	[0.00]	mg/L
Ca 317.933†	88.9	16.37	18.42%	[0.00]	mg/L
Cd 228.802†	125.9	2.88	2.29%	[0.00]	mg/L
Co 228.616†	-3.5	5.68	161.78%	[0.00]	mg/L
Cr 267.716†	39.4	0.51	1.29%	[0.00]	mg/L
Cu 324.752†	3736.9	72.41	1.94%	[0.00]	mg/L
Fe 273.955†	-20.8	2.70	13.01%	[0.00]	mg/L
K 766.490†	1760.7	19.75	1.12%	[0.00]	mg/L
Mg 279.077†	-95.2	4.33	4.55%	[0.00]	mg/L
Mn 257.610†	153.7	3.48	2.26%	[0.00]	mg/L
Mo 202.031†	-24.4	0.88	3.62%	[0.00]	mg/L
Na 589.592†	-586.6	26.20	4.47%	[0.00]	mg/L
Na 330.237†	-101.6	16.33	16.08%	[0.00]	mg/L
Ni 231.604†	-3.4	1.89	56.10%	[0.00]	mg/L
Pb 220.353†	166.1	2.70	1.62%	[0.00]	mg/L
Sb 206.836†	12.7	2.36	18.49%	[0.00]	mg/L
Se 196.026†	-79.8	6.73	8.44%	[0.00]	mg/L
Si 288.158†	-79.8	11.99	15.03%	[0.00]	mg/L
Sn 189.927†	17.9	6.15	34.37%	[0.00]	mg/L
Sr 421.552†	-1176.0	16.68	1.42%	[0.00]	mg/L
Ti 334.903†	-174.0	29.61	17.02%	[0.00]	mg/L
Tl 190.801†	-11.2	2.10	18.77%	[0.00]	mg/L
V 292.402†	-21.4	14.48	67.60%	[0.00]	mg/L
Zn 206.200†	-1.3	1.09	84.01%	[0.00]	mg/L

Analysis Begun

Start Time: 8/1/2006 11:06:48 AM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Plasma On Time: 8/1/2006 8:42:58 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060801
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: CV
Analyst:
Initial Sample Wt:
Dilution: 1X
Autosampler Location: 7
Date Collected: 8/1/2006 11:06:48 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	188.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1506577.2	98.08	%	0.854				0.87%
ScR 361.383	183597.1	100.8	%	0.38				0.38%
Ag 328.068†	272984.7	0.9781	mg/L	0.00780	0.9781	mg/L	0.00780	0.80%
Al 308.215†	2651.1	1.950	mg/L	0.0042	1.950	mg/L	0.0042	0.22%
As 188.979†	1609.2	1.960	mg/L	0.0154	1.960	mg/L	0.0154	0.78%
B 249.677†	2995.1	0.9511	mg/L	0.00616	0.9511	mg/L	0.00616	0.65%
Ba 233.527†	2757.4	0.9504	mg/L	0.00180	0.9504	mg/L	0.00180	0.19%
Be 313.042†	596018.7	0.9734	mg/L	0.00097	0.9734	mg/L	0.00097	0.10%
Ca 317.933†	35694.2	2.027	mg/L	0.0036	2.027	mg/L	0.0036	0.18%
Cd 228.802†	28703.7	1.006	mg/L	0.0110	1.006	mg/L	0.0110	1.10%
Co 228.616†	31159.0	0.9772	mg/L	0.00992	0.9772	mg/L	0.00992	1.02%
Cr 267.716†	6886.1	0.9265	mg/L	0.00442	0.9265	mg/L	0.00442	0.48%
Cu 324.752†	255382.9	1.017	mg/L	0.0095	1.017	mg/L	0.0095	0.94%
Fe 273.955†	1808.9	1.973	mg/L	0.0039	1.973	mg/L	0.0039	0.20%
K 766.490†	23610.4	19.94	mg/L	0.089	19.94	mg/L	0.089	0.45%
Mg 279.077†	2628.7	2.009	mg/L	0.0011	2.009	mg/L	0.0011	0.05%
Mn 257.610†	25613.7	0.9362	mg/L	0.00069	0.9362	mg/L	0.00069	0.07%
Mo 202.031†	9063.3	0.9873	mg/L	0.00757	0.9873	mg/L	0.00757	0.77%
Na 589.592†	303324.5	49.69	mg/L	0.195	49.69	mg/L	0.195	0.39%
Na 330.237†	1478.1	49.72	mg/L	0.492	49.72	mg/L	0.492	0.99%
Ni 231.604†	1743.5	0.9805	mg/L	0.00362	0.9805	mg/L	0.00362	0.37%
Pb 220.353†	14987.2	1.969	mg/L	0.0139	1.969	mg/L	0.0139	0.71%
Sb 206.836†	1810.5	1.861	mg/L	0.0097	1.861	mg/L	0.0097	0.52%
Se 196.026†	2251.0	1.984	mg/L	0.0129	1.984	mg/L	0.0129	0.65%
Si 288.158†	2789.6	2.000	mg/L	0.0078	2.000	mg/L	0.0078	0.39%
Sn 189.927†	3505.2	0.9387	mg/L	0.00633	0.9387	mg/L	0.00633	0.67%
Sr 421.552†	637753.8	0.9754	mg/L	0.00119	0.9754	mg/L	0.00119	0.12%
Ti 334.903†	23858.6	0.9930	mg/L	0.00043	0.9930	mg/L	0.00043	0.04%
Tl 190.801†	1948.2	1.953	mg/L	0.0120	1.953	mg/L	0.0120	0.61%
V 292.402†	242875.5	0.9831	mg/L	0.00755	0.9831	mg/L	0.00755	0.77%
Zn 206.200†	858.6	0.9872	mg/L	0.00209	0.9872	mg/L	0.00209	0.21%

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

Autosampler Location: 1
Date Collected: 8/1/2006 11:13:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	189.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1516620.2	98.74	%	0.715				0.72%
ScR 361.383	182332.5	100.1	%	0.25				0.25%
Ag 328.068†	2.4	0.00001	mg/L	0.000157	0.00001	mg/L	0.000157	>999.9%
Al 308.215†	5.8	0.00431	mg/L	0.022948	0.00431	mg/L	0.022948	533.06%
As 188.979†	-1.3	-0.00155	mg/L	0.001383	-0.00155	mg/L	0.001383	88.94%
B 249.677†	14.4	0.00455	mg/L	0.002873	0.00455	mg/L	0.002873	63.12%
Ba 233.527†	2.5	0.00087	mg/L	0.001097	0.00087	mg/L	0.001097	126.46%
Be 313.042†	-32.7	-0.00005	mg/L	0.000042	-0.00005	mg/L	0.000042	78.32%
Ca 317.933†	-3.1	-0.00017	mg/L	0.000050	-0.00017	mg/L	0.000050	28.73%
Cd 228.802†	1.4	0.00005	mg/L	0.000117	0.00005	mg/L	0.000117	229.62%
Co 228.616†	-3.5	-0.00011	mg/L	0.000123	-0.00011	mg/L	0.000123	115.15%
Cr 267.716†	-1.1	-0.00015	mg/L	0.000212	-0.00015	mg/L	0.000212	144.99%
Cu 324.752†	-24.3	-0.00010	mg/L	0.000277	-0.00010	mg/L	0.000277	285.66%
Fe 273.955†	-3.0	-0.00329	mg/L	0.005171	-0.00329	mg/L	0.005171	157.32%
K 766.490†	38.6	0.03263	mg/L	0.017257	0.03263	mg/L	0.017257	52.89%
Mg 279.077†	-13.4	-0.01021	mg/L	0.020658	-0.01021	mg/L	0.020658	202.27%
Mn 257.610†	2.6	0.00010	mg/L	0.000178	0.00010	mg/L	0.000178	185.00%
Mo 202.031†	1.8	0.00019	mg/L	0.000085	0.00019	mg/L	0.000085	43.91%
Na 589.592†	83.8	0.01373	mg/L	0.005420	0.01373	mg/L	0.005420	39.47%
Na 330.237†	-15.6	-0.5262	mg/L	0.37653	-0.5262	mg/L	0.37653	71.55%
Ni 231.604†	3.2	0.00179	mg/L	0.002662	0.00179	mg/L	0.002662	148.77%
Pb 220.353†	6.1	0.00080	mg/L	0.000962	0.00080	mg/L	0.000962	120.93%
Sb 206.836†	3.9	0.00399	mg/L	0.000812	0.00399	mg/L	0.000812	20.34%
Se 196.026†	2.0	0.00178	mg/L	0.002480	0.00178	mg/L	0.002480	139.65%
Si 288.158†	-1.8	-0.00131	mg/L	0.001554	-0.00131	mg/L	0.001554	118.77%
Sn 189.927†	1.4	0.00038	mg/L	0.001746	0.00038	mg/L	0.001746	464.10%
Sr 421.552†	16.1	0.00002	mg/L	0.000043	0.00002	mg/L	0.000043	173.65%
Ti 334.903†	-22.5	-0.00094	mg/L	0.000765	-0.00094	mg/L	0.000765	81.47%
Tl 190.801†	6.1	0.00615	mg/L	0.001704	0.00615	mg/L	0.001704	27.69%
V 292.402†	16.2	0.00006	mg/L	0.000127	0.00006	mg/L	0.000127	197.06%
Zn 206.200†	0.0	0.00002	mg/L	0.001259	0.00002	mg/L	0.001259	>999.9%

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

Autosampler Location: 8
Date Collected: 8/1/2006 11:19:35 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	189.0 kPa	0.50 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1503682.3	97.89	%	0.433				0.44%
ScR 361.383	181403.6	99.61	%	0.347				0.35%
Ag 328.068†	820.0	0.00294	mg/L	0.000099	0.00294	mg/L	0.000099	3.38%
Al 308.215†	57.9	0.04325	mg/L	0.008579	0.04325	mg/L	0.008579	19.84%
As 188.979†	40.7	0.04964	mg/L	0.002445	0.04964	mg/L	0.002445	4.93%
B 249.677†	62.4	0.01978	mg/L	0.000554	0.01978	mg/L	0.000554	2.80%
Ba 233.527†	13.0	0.00447	mg/L	0.000631	0.00447	mg/L	0.000631	14.12%
Be 313.042†	595.7	0.00097	mg/L	0.000021	0.00097	mg/L	0.000021	2.21%
Ca 317.933†	875.6	0.04973	mg/L	0.003110	0.04973	mg/L	0.003110	6.25%
Cd 228.802†	60.1	0.00204	mg/L	0.000099	0.00204	mg/L	0.000099	4.85%
Co 228.616†	95.7	0.00300	mg/L	0.000305	0.00300	mg/L	0.000305	10.17%
Cr 267.716†	30.9	0.00415	mg/L	0.000513	0.00415	mg/L	0.000513	12.35%
Cu 324.752†	539.4	0.00215	mg/L	0.000049	0.00215	mg/L	0.000049	2.30%
Fe 273.955†	41.8	0.04565	mg/L	0.000176	0.04565	mg/L	0.000176	0.39%
K 766.490†	620.7	0.5242	mg/L	0.05709	0.5242	mg/L	0.05709	10.89%
Mg 279.077†	61.0	0.04653	mg/L	0.009276	0.04653	mg/L	0.009276	19.93%
Mn 257.610†	25.9	0.00095	mg/L	0.000209	0.00095	mg/L	0.000209	21.99%
Mo 202.031†	45.3	0.00494	mg/L	0.000063	0.00494	mg/L	0.000063	1.27%
Na 589.592†	3245.3	0.5317	mg/L	0.00542	0.5317	mg/L	0.00542	1.02%
Na 330.237†	9.1	0.3046	mg/L	0.33286	0.3046	mg/L	0.33286	109.28%
Ni 231.604†	23.3	0.01310	mg/L	0.001587	0.01310	mg/L	0.001587	12.11%
Pb 220.353†	152.4	0.02002	mg/L	0.000847	0.02002	mg/L	0.000847	4.23%
Sb 206.836†	54.7	0.05623	mg/L	0.000918	0.05623	mg/L	0.000918	1.63%
Se 196.026†	59.1	0.05209	mg/L	0.001362	0.05209	mg/L	0.001362	2.62%
Si 288.158†	86.9	0.06224	mg/L	0.002661	0.06224	mg/L	0.002661	4.28%
Sn 189.927†	33.6	0.00908	mg/L	0.000941	0.00908	mg/L	0.000941	10.37%
Sr 421.552†	686.4	0.00105	mg/L	0.000089	0.00105	mg/L	0.000089	8.52%
Ti 334.903†	72.3	0.00301	mg/L	0.000804	0.00301	mg/L	0.000804	26.75%
Tl 190.801†	52.9	0.05310	mg/L	0.001505	0.05310	mg/L	0.001505	2.84%
V 292.402†	761.6	0.00309	mg/L	0.000114	0.00309	mg/L	0.000114	3.69%
Zn 206.200†	6.4	0.00740	mg/L	0.000939	0.00740	mg/L	0.000939	12.68%

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

Autosampler Location: 9
Date Collected: 8/1/2006 11:25:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	188.0 kPa	0.50 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1456251.0	94.81	%	1.324				1.40%
ScR 361.383	179443.9	98.53	%	0.277				0.28%
Ag 328.068†	-2380.7	-0.00052	mg/L	0.000442	-0.00052	mg/L	0.000442	85.77%
Al 308.215†	264930.0	198.5	mg/L	0.72	198.5	mg/L	0.72	0.36%
As 188.979†	36.7	0.02153	mg/L	0.004412	0.02153	mg/L	0.004412	20.50%
B 249.677†	-13.6	-0.00429	mg/L	0.003389	-0.00429	mg/L	0.003389	78.92%
Ba 233.527†	43.7	0.00120	mg/L	0.000852	0.00120	mg/L	0.000852	70.98%
Be 313.042†	22.6	0.00003	mg/L	0.000025	0.00003	mg/L	0.000025	72.95%
Ca 317.933†	1717600.7	97.55	mg/L	0.361	97.55	mg/L	0.361	0.37%
Cd 228.802†	32.9	-0.00085	mg/L	0.000163	-0.00085	mg/L	0.000163	19.08%
Co 228.616†	-16.2	-0.00166	mg/L	0.000289	-0.00166	mg/L	0.000289	17.43%
Cr 267.716†	-9.3	-0.00040	mg/L	0.000159	-0.00040	mg/L	0.000159	39.45%
Cu 324.752†	-4269.7	0.00039	mg/L	0.000100	0.00039	mg/L	0.000100	25.50%
Fe 273.955†	176587.9	192.9	mg/L	0.33	192.9	mg/L	0.33	0.17%
K 766.490†	126.5	0.1068	mg/L	0.03079	0.1068	mg/L	0.03079	28.82%
Mg 279.077†	131340.7	100.1	mg/L	0.31	100.1	mg/L	0.31	0.31%
Mn 257.610†	96.0	-0.00018	mg/L	0.000261	-0.00018	mg/L	0.000261	146.86%
Mo 202.031†	25.5	0.00480	mg/L	0.000445	0.00480	mg/L	0.000445	9.25%
Na 589.592†	167.6	0.02746	mg/L	0.004638	0.02746	mg/L	0.004638	16.89%
Na 330.237†	16.1	-0.3318	mg/L	0.38259	-0.3318	mg/L	0.38259	115.29%
Ni 231.604†	-0.2	-0.00011	mg/L	0.001556	-0.00011	mg/L	0.001556	>999.9%
Pb 220.353†	-167.7	0.01623	mg/L	0.001253	0.01623	mg/L	0.001253	7.72%
Sb 206.836†	23.3	0.02369	mg/L	0.004230	0.02369	mg/L	0.004230	17.86%
Se 196.026†	-87.0	-0.07671	mg/L	0.001878	-0.07671	mg/L	0.001878	2.45%
Si 288.158†	-32.4	-0.02319	mg/L	0.010075	-0.02319	mg/L	0.010075	43.44%
Sn 189.927†	-85.8	-0.00824	mg/L	0.002269	-0.00824	mg/L	0.002269	27.54%
Sr 421.552†	810.4	0.00124	mg/L	0.000105	0.00124	mg/L	0.000105	8.44%
Ti 334.903†	131.5	0.00548	mg/L	0.000616	0.00548	mg/L	0.000616	11.24%
Tl 190.801†	-34.6	-0.03472	mg/L	0.005889	-0.03472	mg/L	0.005889	16.96%
V 292.402†	505.9	0.00202	mg/L	0.000203	0.00202	mg/L	0.000203	10.05%
Zn 206.200†	0.6	-0.00318	mg/L	0.001404	-0.00318	mg/L	0.001404	44.14%

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

Autosampler Location: 10
Date Collected: 8/1/2006 11:32:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	189.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1441311.0	93.83	%	1.166				1.24%
ScR 361.383	179857.8	98.76	%	0.252				0.26%
Ag 328.068†	280440.1	1.013	mg/L	0.0050	1.013	mg/L	0.0050	0.50%
Al 308.215†	264191.2	197.9	mg/L	0.14	197.9	mg/L	0.14	0.07%
As 188.979†	865.1	1.032	mg/L	0.0130	1.032	mg/L	0.0130	1.26%
B 249.677†	-16.4	-0.00357	mg/L	0.003083	-0.00357	mg/L	0.003083	86.47%
Ba 233.527†	2783.6	0.9457	mg/L	0.00466	0.9457	mg/L	0.00466	0.49%
Be 313.042†	603376.2	0.9854	mg/L	0.00055	0.9854	mg/L	0.00055	0.06%
Ca 317.933†	1717954.3	97.57	mg/L	0.134	97.57	mg/L	0.134	0.14%
Cd 228.802†	29200.0	1.023	mg/L	0.0009	1.023	mg/L	0.0009	0.08%
Co 228.616†	30708.1	0.9632	mg/L	0.00382	0.9632	mg/L	0.00382	0.40%
Cr 267.716†	6897.3	0.9293	mg/L	0.00251	0.9293	mg/L	0.00251	0.27%
Cu 324.752†	263057.5	1.065	mg/L	0.0044	1.065	mg/L	0.0044	0.41%
Fe 273.955†	176070.7	192.3	mg/L	1.44	192.3	mg/L	1.44	0.75%
K 766.490†	114.3	0.09652	mg/L	0.031482	0.09652	mg/L	0.031482	32.62%
Mg 279.077†	131094.3	99.87	mg/L	0.067	99.87	mg/L	0.067	0.07%
Mn 257.610†	25351.6	0.9228	mg/L	0.00281	0.9228	mg/L	0.00281	0.30%
Mo 202.031†	22.3	0.00444	mg/L	0.000263	0.00444	mg/L	0.000263	5.91%
Na 589.592†	152.6	0.02499	mg/L	0.004031	0.02499	mg/L	0.004031	16.13%
Na 330.237†	-10.0	-1.440	mg/L	0.0592	-1.440	mg/L	0.0592	4.11%
Ni 231.604†	1642.8	0.9235	mg/L	0.00346	0.9235	mg/L	0.00346	0.37%
Pb 220.353†	7034.6	0.9624	mg/L	0.01688	0.9624	mg/L	0.01688	1.75%
Sb 206.836†	1060.4	1.078	mg/L	0.0156	1.078	mg/L	0.0156	1.45%
Se 196.026†	1058.0	0.9320	mg/L	0.01308	0.9320	mg/L	0.01308	1.40%
Si 288.158†	-42.5	-0.02848	mg/L	0.003738	-0.02848	mg/L	0.003738	13.12%
Sn 189.927†	-93.3	-0.00824	mg/L	0.001489	-0.00824	mg/L	0.001489	18.06%
Sr 421.552†	856.6	0.00131	mg/L	0.000023	0.00131	mg/L	0.000023	1.75%
Ti 334.903†	250.9	0.01026	mg/L	0.000381	0.01026	mg/L	0.000381	3.72%
Tl 190.801†	906.0	0.9036	mg/L	0.01280	0.9036	mg/L	0.01280	1.42%
V 292.402†	254534.8	1.030	mg/L	0.0043	1.030	mg/L	0.0043	0.42%
Zn 206.200†	794.1	0.9094	mg/L	0.00416	0.9094	mg/L	0.00416	0.46%

Sequence No.: 6
Sample ID: CV2
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/1/2006 11:38:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	189.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1492348.4	97.16	%	0.567				0.58%
ScR 361.383	182638.2	100.3	%	0.80				0.79%
Ag 328.068†	272854.5	0.9777	mg/L	0.01084	0.9777	mg/L	0.01084	1.11%
Al 308.215†	2648.1	1.948	mg/L	0.0171	1.948	mg/L	0.0171	0.88%
As 188.979†	1612.2	1.964	mg/L	0.0103	1.964	mg/L	0.0103	0.52%
B 249.677†	2979.9	0.9463	mg/L	0.00887	0.9463	mg/L	0.00887	0.94%
Ba 233.527†	2750.5	0.9480	mg/L	0.00601	0.9480	mg/L	0.00601	0.63%
Be 313.042†	591413.7	0.9659	mg/L	0.00335	0.9659	mg/L	0.00335	0.35%
Ca 317.933†	35358.6	2.008	mg/L	0.0084	2.008	mg/L	0.0084	0.42%
Cd 228.802†	28639.0	1.004	mg/L	0.0117	1.004	mg/L	0.0117	1.16%
Co 228.616†	31150.0	0.9769	mg/L	0.01503	0.9769	mg/L	0.01503	1.54%
Cr 267.716†	6858.0	0.9228	mg/L	0.00640	0.9228	mg/L	0.00640	0.69%
Cu 324.752†	255145.9	1.016	mg/L	0.0114	1.016	mg/L	0.0114	1.13%
Fe 273.955†	1799.9	1.963	mg/L	0.0074	1.963	mg/L	0.0074	0.38%
K 766.490†	23400.9	19.76	mg/L	0.078	19.76	mg/L	0.078	0.39%
Mg 279.077†	2631.4	2.011	mg/L	0.0080	2.011	mg/L	0.0080	0.40%
Mn 257.610†	25336.3	0.9261	mg/L	0.00081	0.9261	mg/L	0.00081	0.09%
Mo 202.031†	9068.4	0.9879	mg/L	0.00430	0.9879	mg/L	0.00430	0.43%
Na 589.592†	301117.0	49.33	mg/L	0.121	49.33	mg/L	0.121	0.25%
Na 330.237†	1478.5	49.73	mg/L	0.250	49.73	mg/L	0.250	0.50%
Ni 231.604†	1734.8	0.9756	mg/L	0.00459	0.9756	mg/L	0.00459	0.47%
Pb 220.353†	14979.9	1.968	mg/L	0.0230	1.968	mg/L	0.0230	1.17%
Sb 206.836†	1808.9	1.859	mg/L	0.0114	1.859	mg/L	0.0114	0.61%
Se 196.026†	2250.7	1.984	mg/L	0.0026	1.984	mg/L	0.0026	0.13%
Si 288.158†	2782.6	1.995	mg/L	0.0130	1.995	mg/L	0.0130	0.65%
Sn 189.927†	3509.4	0.9398	mg/L	0.00294	0.9398	mg/L	0.00294	0.31%
Sr 421.552†	633552.9	0.9690	mg/L	0.00160	0.9690	mg/L	0.00160	0.17%
Ti 334.903†	23637.7	0.9838	mg/L	0.00357	0.9838	mg/L	0.00357	0.36%
Tl 190.801†	1952.4	1.957	mg/L	0.0082	1.957	mg/L	0.0082	0.42%
V 292.402†	242606.2	0.9820	mg/L	0.01130	0.9820	mg/L	0.01130	1.15%
Zn 206.200†	851.9	0.9795	mg/L	0.00343	0.9795	mg/L	0.00343	0.35%

Sequence No.: 7
Sample ID: CB 2
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/1/2006 11:45:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	189.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1519476.5	98.92	%	0.662				0.67%
ScR 361.383	179741.3	98.69	%	0.939				0.95%
Ag 328.068†	103.3	0.00037	mg/L	0.000112	0.00037	mg/L	0.000112	30.34%
Al 308.215†	-13.0	-0.00975	mg/L	0.012927	-0.00975	mg/L	0.012927	132.65%
As 188.979†	-1.6	-0.00196	mg/L	0.003750	-0.00196	mg/L	0.003750	191.09%
B 249.677†	15.5	0.00490	mg/L	0.002181	0.00490	mg/L	0.002181	44.54%
Ba 233.527†	0.9	0.00030	mg/L	0.000794	0.00030	mg/L	0.000794	264.46%
Be 313.042†	21.0	0.00003	mg/L	0.000016	0.00003	mg/L	0.000016	45.22%
Ca 317.933†	4.4	0.00025	mg/L	0.000893	0.00025	mg/L	0.000893	357.13%
Cd 228.802†	3.7	0.00013	mg/L	0.000054	0.00013	mg/L	0.000054	40.20%
Co 228.616†	5.4	0.00017	mg/L	0.000368	0.00017	mg/L	0.000368	213.57%
Cr 267.716†	0.3	0.00005	mg/L	0.000326	0.00005	mg/L	0.000326	712.25%
Cu 324.752†	-19.2	-0.00008	mg/L	0.000074	-0.00008	mg/L	0.000074	95.98%
Fe 273.955†	-2.2	-0.00242	mg/L	0.001263	-0.00242	mg/L	0.001263	52.13%
K 766.490†	26.7	0.02255	mg/L	0.044776	0.02255	mg/L	0.044776	198.57%
Mg 279.077†	-0.5	-0.00036	mg/L	0.016881	-0.00036	mg/L	0.016881	>999.9%
Mn 257.610†	3.9	0.00014	mg/L	0.000100	0.00014	mg/L	0.000100	69.30%
Mo 202.031†	2.5	0.00027	mg/L	0.000142	0.00027	mg/L	0.000142	52.60%
Na 589.592†	44.7	0.00733	mg/L	0.005047	0.00733	mg/L	0.005047	68.87%
Na 330.237†	-6.3	-0.2116	mg/L	0.35293	-0.2116	mg/L	0.35293	166.78%
Ni 231.604†	1.6	0.00088	mg/L	0.000827	0.00088	mg/L	0.000827	93.53%
Pb 220.353†	10.3	0.00135	mg/L	0.000070	0.00135	mg/L	0.000070	5.19%
Sb 206.836†	5.5	0.00563	mg/L	0.001291	0.00563	mg/L	0.001291	22.92%
Se 196.026†	0.4	0.00033	mg/L	0.002867	0.00033	mg/L	0.002867	856.00%
Si 288.158†	-6.7	-0.00483	mg/L	0.003520	-0.00483	mg/L	0.003520	72.93%
Sn 189.927†	4.4	0.00118	mg/L	0.000553	0.00118	mg/L	0.000553	46.81%
Sr 421.552†	6.3	0.00001	mg/L	0.000082	0.00001	mg/L	0.000082	849.72%
Ti 334.903†	-25.4	-0.00106	mg/L	0.001047	-0.00106	mg/L	0.001047	98.79%
Tl 190.801†	2.5	0.00252	mg/L	0.004293	0.00252	mg/L	0.004293	170.42%
V 292.402†	-1.2	0.00000	mg/L	0.000112	0.00000	mg/L	0.000112	>999.9%
Zn 206.200†	1.2	0.00141	mg/L	0.001508	0.00141	mg/L	0.001508	106.76%

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Analysis Begun

Start Time: 8/1/2006 11:51:34 AM
Plasma On Time: 8/1/2006 8:42:58 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\0801.sif
Batch ID:
Results Data Set: PE060801
Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 1
Autosampler Location: 21
Sample ID: JQ42 MB TWC
Date Collected: 8/1/2006 11:51:34 AM
Analyst: JLB
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution: 1X
Sample Prep Vol:

Nebulizer Parameters: JQ42 MB TWC

Analyte	Back Pressure	Flow
All	190.0 kPa	0.50 L/min

Mean Data: JQ42 MB TWC

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1547014.7	100.7	%	0.92				0.92%
ScR 361.383	182156.4	100.0	%	1.02				1.02%
Ag 328.068†	46.0	0.00016	mg/L	0.000098	0.00016	mg/L	0.000098	59.24%
Al 308.215†	8.6	0.00647	mg/L	0.004129	0.00647	mg/L	0.004129	63.84%
As 188.979†	0.3	0.00033	mg/L	0.001778	0.00033	mg/L	0.001778	533.64%
B 249.677†	3.7	0.00119	mg/L	0.001111	0.00119	mg/L	0.001111	93.63%
Ba 233.527†	2.5	0.00085	mg/L	0.000582	0.00085	mg/L	0.000582	68.32%
Be 313.042†	-22.1	-0.00004	mg/L	0.000052	-0.00004	mg/L	0.000052	144.06%
Ca 317.933†	233.9	0.01328	mg/L	0.001002	0.01328	mg/L	0.001002	7.54%
Cd 228.802†	-2.3	-0.00008	mg/L	0.000025	-0.00008	mg/L	0.000025	30.75%
Co 228.616†	3.3	0.00011	mg/L	0.000259	0.00011	mg/L	0.000259	245.56%
Cr 267.716†	1.3	0.00018	mg/L	0.000305	0.00018	mg/L	0.000305	169.07%
Cu 324.752†	-33.1	-0.00013	mg/L	0.000184	-0.00013	mg/L	0.000184	140.58%
Fe 273.955†	2.0	0.00217	mg/L	0.002668	0.00217	mg/L	0.002668	122.98%
K 766.490†	-4.7	-0.00398	mg/L	0.018686	-0.00398	mg/L	0.018686	470.00%
Mg 279.077†	-11.8	-0.00901	mg/L	0.012775	-0.00901	mg/L	0.012775	141.85%
Mn 257.610†	-1.5	-0.00006	mg/L	0.000149	-0.00006	mg/L	0.000149	266.44%
Mo 202.031†	-1.2	-0.00013	mg/L	0.000320	-0.00013	mg/L	0.000320	252.29%
Na 589.592†	56.6	0.00928	mg/L	0.005753	0.00928	mg/L	0.005753	62.01%
Na 330.237†	-11.9	-0.4033	mg/L	0.59684	-0.4033	mg/L	0.59684	147.98%
Ni 231.604†	2.9	0.00162	mg/L	0.002245	0.00162	mg/L	0.002245	138.72%
Pb 220.353†	1.7	0.00023	mg/L	0.000726	0.00023	mg/L	0.000726	321.37%
Sb 206.836†	2.9	0.00299	mg/L	0.003975	0.00299	mg/L	0.003975	132.85%
Se 196.026†	-1.5	-0.00130	mg/L	0.003157	-0.00130	mg/L	0.003157	243.31%
Si 288.158†	14.1	0.01011	mg/L	0.003515	0.01011	mg/L	0.003515	34.77%
Sn 189.927†	-0.8	-0.00021	mg/L	0.000693	-0.00021	mg/L	0.000693	325.20%
Sr 421.552†	38.0	0.00006	mg/L	0.000066	0.00006	mg/L	0.000066	113.10%
Ti 334.903†	-29.6	-0.00124	mg/L	0.000246	-0.00124	mg/L	0.000246	19.90%
Tl 190.801†	3.2	0.00319	mg/L	0.003774	0.00319	mg/L	0.003774	118.22%
V 292.402†	12.0	0.00005	mg/L	0.000148	0.00005	mg/L	0.000148	296.87%
Zn 206.200†	5.3	0.00608	mg/L	0.003025	0.00608	mg/L	0.003025	49.73%

Sequence No.: 2
Sample ID: JQ42 A TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 22
Date Collected: 8/1/2006 11:57:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ42 A TWC

Analyte	Back Pressure	Flow
All	189.0 kPa	0.50 L/min

Mean Data: JQ42 A TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1543455.4	100.5	%	0.23				0.22%
ScR 361.383	184231.8	101.2	%	0.65				0.64%
Ag 328.068†	599.9	0.00215	mg/L	0.000224	0.00215	mg/L	0.000224	10.44%
Al 308.215†	46.5	0.03469	mg/L	0.004763	0.03469	mg/L	0.004763	13.73%
As 188.979†	38.2	0.04655	mg/L	0.001233	0.04655	mg/L	0.001233	2.65%
B 249.677†	35.7	0.01130	mg/L	0.002068	0.01130	mg/L	0.002068	18.29%
Ba 233.527†	9.3	0.00319	mg/L	0.000667	0.00319	mg/L	0.000667	20.91%
Be 313.042†	628.6	0.00103	mg/L	0.000008	0.00103	mg/L	0.000008	0.79%
Ca 317.933†	864.6	0.04911	mg/L	0.001196	0.04911	mg/L	0.001196	2.44%
Cd 228.802†	54.4	0.00185	mg/L	0.000032	0.00185	mg/L	0.000032	1.71%
Co 228.616†	75.1	0.00234	mg/L	0.000099	0.00234	mg/L	0.000099	4.21%
Cr 267.716†	28.3	0.00381	mg/L	0.001142	0.00381	mg/L	0.001142	29.98%
Cu 324.752†	3190.3	0.01270	mg/L	0.000421	0.01270	mg/L	0.000421	3.31%
Fe 273.955†	11.4	0.01246	mg/L	0.001183	0.01246	mg/L	0.001183	9.49%
K 766.490†	1855.0	1.567	mg/L	0.0237	1.567	mg/L	0.0237	1.51%
Mg 279.077†	55.4	0.04228	mg/L	0.013040	0.04228	mg/L	0.013040	30.84%
Mn 257.610†	31.2	0.00114	mg/L	0.000069	0.00114	mg/L	0.000069	6.02%
Mo 202.031†	46.9	0.00511	mg/L	0.000069	0.00511	mg/L	0.000069	1.34%
Na 589.592†	434.9	0.07124	mg/L	0.001898	0.07124	mg/L	0.001898	2.66%
Na 330.237†	-4.9	-0.1655	mg/L	0.11995	-0.1655	mg/L	0.11995	72.49%
Ni 231.604†	40.3	0.02265	mg/L	0.003374	0.02265	mg/L	0.003374	14.90%
Pb 220.353†	81.2	0.01067	mg/L	0.000747	0.01067	mg/L	0.000747	7.01%
Sb 206.836†	52.0	0.05347	mg/L	0.000726	0.05347	mg/L	0.000726	1.36%
Se 196.026†	57.5	0.05069	mg/L	0.005623	0.05069	mg/L	0.005623	11.09%
Si 288.158†	56.5	0.04049	mg/L	0.003074	0.04049	mg/L	0.003074	7.59%
Sn 189.927†	36.3	0.00980	mg/L	0.000234	0.00980	mg/L	0.000234	2.39%
Sr 421.552†	389.4	0.00060	mg/L	0.000028	0.00060	mg/L	0.000028	4.70%
Ti 334.903†	225.5	0.00939	mg/L	0.000761	0.00939	mg/L	0.000761	8.10%
Tl 190.801†	50.0	0.05023	mg/L	0.001117	0.05023	mg/L	0.001117	2.22%
V 292.402†	240.1	0.00099	mg/L	0.000128	0.00099	mg/L	0.000128	12.88%
Zn 206.200†	14.4	0.01657	mg/L	0.000471	0.01657	mg/L	0.000471	2.84%

Sequence No.: 3
Sample ID: JQ42 B TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 23
Date Collected: 8/1/2006 12:04:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ42 B TWC

Analyte	Back Pressure	Flow
All	189.0 kPa	0.50 L/min

Mean Data: JQ42 B TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1539409.3	100.2	%	0.85				0.84%
ScR 361.383	186116.5	102.2	%	0.16				0.16%
Ag 328.068†	535.1	0.00192	mg/L	0.000297	0.00192	mg/L	0.000297	15.50%
Al 308.215†	57.9	0.04323	mg/L	0.013258	0.04323	mg/L	0.013258	30.67%
As 188.979†	37.3	0.04547	mg/L	0.005517	0.04547	mg/L	0.005517	12.13%
B 249.677†	39.8	0.01260	mg/L	0.002284	0.01260	mg/L	0.002284	18.13%
Ba 233.527†	8.1	0.00280	mg/L	0.001202	0.00280	mg/L	0.001202	42.91%
Be 313.042†	606.3	0.00099	mg/L	0.000041	0.00099	mg/L	0.000041	4.18%
Ca 317.933†	839.0	0.04765	mg/L	0.000720	0.04765	mg/L	0.000720	1.51%
Cd 228.802†	55.2	0.00188	mg/L	0.000089	0.00188	mg/L	0.000089	4.72%
Co 228.616†	63.4	0.00198	mg/L	0.000292	0.00198	mg/L	0.000292	14.79%
Cr 267.716†	28.9	0.00389	mg/L	0.001084	0.00389	mg/L	0.001084	27.85%
Cu 324.752†	1062.9	0.00423	mg/L	0.000127	0.00423	mg/L	0.000127	3.00%
Fe 273.955†	10.4	0.01131	mg/L	0.001556	0.01131	mg/L	0.001556	13.76%
K 766.490†	1749.9	1.478	mg/L	0.0337	1.478	mg/L	0.0337	2.28%
Mg 279.077†	41.8	0.03192	mg/L	0.002855	0.03192	mg/L	0.002855	8.94%
Mn 257.610†	28.0	0.00102	mg/L	0.000185	0.00102	mg/L	0.000185	18.11%
Mo 202.031†	43.4	0.00473	mg/L	0.000111	0.00473	mg/L	0.000111	2.36%
Na 589.592†	418.1	0.06850	mg/L	0.003127	0.06850	mg/L	0.003127	4.56%
Na 330.237†	-5.9	-0.1997	mg/L	0.15113	-0.1997	mg/L	0.15113	75.69%
Ni 231.604†	36.8	0.02070	mg/L	0.001839	0.02070	mg/L	0.001839	8.88%
Pb 220.353†	77.3	0.01017	mg/L	0.000236	0.01017	mg/L	0.000236	2.32%
Sb 206.836†	50.5	0.05190	mg/L	0.001631	0.05190	mg/L	0.001631	3.14%
Se 196.026†	50.5	0.04451	mg/L	0.006043	0.04451	mg/L	0.006043	13.58%
Si 288.158†	55.4	0.03971	mg/L	0.002480	0.03971	mg/L	0.002480	6.25%
Sn 189.927†	35.1	0.00947	mg/L	0.000270	0.00947	mg/L	0.000270	2.85%
Sr 421.552†	418.8	0.00064	mg/L	0.000052	0.00064	mg/L	0.000052	8.09%
Ti 334.903†	218.4	0.00910	mg/L	0.000272	0.00910	mg/L	0.000272	2.99%
Tl 190.801†	55.2	0.05539	mg/L	0.002373	0.05539	mg/L	0.002373	4.28%
V 292.402†	235.2	0.00097	mg/L	0.000244	0.00097	mg/L	0.000244	25.08%
Zn 206.200†	9.4	0.01079	mg/L	0.000703	0.01079	mg/L	0.000703	6.51%

Sequence No.: 4
Sample ID: JQ42 C TWC F
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 24
Date Collected: 8/1/2006 12:10:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ42 C TWC

Analyte	Back Pressure	Flow
All	189.0 kPa	0.50 L/min

Mean Data: JQ42 C TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1528677.6	99.52	%	0.313				0.31%
ScR 361.383	182978.1	100.5	%	0.47				0.47%
Ag 328.068†	554.2	0.00199	mg/L	0.000184	0.00199	mg/L	0.000184	9.26%
Al 308.215†	74.2	0.05547	mg/L	0.008342	0.05547	mg/L	0.008342	15.04%
As 188.979†	36.8	0.04491	mg/L	0.001534	0.04491	mg/L	0.001534	3.41%
B 249.677†	36.4	0.01152	mg/L	0.002420	0.01152	mg/L	0.002420	21.00%
Ba 233.527†	10.2	0.00353	mg/L	0.000582	0.00353	mg/L	0.000582	16.49%
Be 313.042†	593.5	0.00097	mg/L	0.000034	0.00097	mg/L	0.000034	3.48%
Ca 317.933†	849.2	0.04823	mg/L	0.001041	0.04823	mg/L	0.001041	2.16%
Cd 228.802†	57.6	0.00197	mg/L	0.000077	0.00197	mg/L	0.000077	3.91%
Co 228.616†	64.9	0.00202	mg/L	0.000228	0.00202	mg/L	0.000228	11.25%
Cr 267.716†	27.6	0.00371	mg/L	0.000838	0.00371	mg/L	0.000838	22.60%
Cu 324.752†	1038.9	0.00413	mg/L	0.000240	0.00413	mg/L	0.000240	5.80%
Fe 273.955†	10.7	0.01167	mg/L	0.003147	0.01167	mg/L	0.003147	26.96%
K 766.490†	1873.1	1.582	mg/L	0.0373	1.582	mg/L	0.0373	2.36%
Mg 279.077†	52.4	0.03997	mg/L	0.007788	0.03997	mg/L	0.007788	19.49%
Mn 257.610†	31.8	0.00116	mg/L	0.000148	0.00116	mg/L	0.000148	12.75%
Mo 202.031†	42.0	0.00458	mg/L	0.000292	0.00458	mg/L	0.000292	6.38%
Na 589.592†	448.7	0.07351	mg/L	0.001709	0.07351	mg/L	0.001709	2.33%
Na 330.237†	7.2	0.2401	mg/L	0.35916	0.2401	mg/L	0.35916	149.59%
Ni 231.604†	34.9	0.01965	mg/L	0.001497	0.01965	mg/L	0.001497	7.62%
Pb 220.353†	80.4	0.01058	mg/L	0.000993	0.01058	mg/L	0.000993	9.39%
Sb 206.836†	51.9	0.05340	mg/L	0.002443	0.05340	mg/L	0.002443	4.58%
Se 196.026†	57.4	0.05060	mg/L	0.002858	0.05060	mg/L	0.002858	5.65%
Si 288.158†	55.1	0.03950	mg/L	0.004629	0.03950	mg/L	0.004629	11.72%
Sn 189.927†	34.0	0.00918	mg/L	0.001351	0.00918	mg/L	0.001351	14.72%
Sr 421.552†	386.3	0.00059	mg/L	0.000083	0.00059	mg/L	0.000083	14.01%
Ti 334.903†	219.7	0.00915	mg/L	0.001615	0.00915	mg/L	0.001615	17.65%
Tl 190.801†	55.1	0.05532	mg/L	0.001187	0.05532	mg/L	0.001187	2.15%
V 292.402†	255.8	0.00105	mg/L	0.000186	0.00105	mg/L	0.000186	17.63%
Zn 206.200†	12.5	0.01433	mg/L	0.000417	0.01433	mg/L	0.000417	2.91%

Sequence No.: 5
Sample ID: JQ42 D TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 25
Date Collected: 8/1/2006 12:17:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ42 D TWC

Analyte	Back Pressure	Flow
All	189.0 kPa	0.50 L/min

Mean Data: JQ42 D TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1553015.6	101.1	%	0.60				0.59%
ScR 361.383	183377.2	100.7	%	0.61				0.61%
Ag 328.068†	580.2	0.00208	mg/L	0.000088	0.00208	mg/L	0.000088	4.23%
Al 308.215†	65.9	0.04925	mg/L	0.007181	0.04925	mg/L	0.007181	14.58%
As 188.979†	36.9	0.04504	mg/L	0.003301	0.04504	mg/L	0.003301	7.33%
B 249.677†	36.3	0.01150	mg/L	0.002263	0.01150	mg/L	0.002263	19.69%
Ba 233.527†	6.7	0.00231	mg/L	0.001157	0.00231	mg/L	0.001157	50.18%
Be 313.042†	589.6	0.00096	mg/L	0.000043	0.00096	mg/L	0.000043	4.45%
Ca 317.933†	925.7	0.05258	mg/L	0.002178	0.05258	mg/L	0.002178	4.14%
Cd 228.802†	52.3	0.00178	mg/L	0.000046	0.00178	mg/L	0.000046	2.60%
Co 228.616†	67.5	0.00211	mg/L	0.000294	0.00211	mg/L	0.000294	13.96%
Cr 267.716†	24.7	0.00332	mg/L	0.000918	0.00332	mg/L	0.000918	27.60%
Cu 324.752†	1009.3	0.00402	mg/L	0.000228	0.00402	mg/L	0.000228	5.68%
Fe 273.955†	11.6	0.01264	mg/L	0.002416	0.01264	mg/L	0.002416	19.11%
K 766.490†	1835.0	1.550	mg/L	0.0245	1.550	mg/L	0.0245	1.58%
Mg 279.077†	22.8	0.01737	mg/L	0.018587	0.01737	mg/L	0.018587	107.00%
Mn 257.610†	29.4	0.00108	mg/L	0.000121	0.00108	mg/L	0.000121	11.28%
Mo 202.031†	45.9	0.00500	mg/L	0.000236	0.00500	mg/L	0.000236	4.71%
Na 589.592†	415.3	0.06804	mg/L	0.001421	0.06804	mg/L	0.001421	2.09%
Na 330.237†	-30.3	-1.022	mg/L	0.3466	-1.022	mg/L	0.3466	33.92%
Ni 231.604†	37.1	0.02089	mg/L	0.001221	0.02089	mg/L	0.001221	5.85%
Pb 220.353†	77.1	0.01013	mg/L	0.000358	0.01013	mg/L	0.000358	3.54%
Sb 206.836†	50.2	0.05163	mg/L	0.000073	0.05163	mg/L	0.000073	0.14%
Se 196.026†	53.8	0.04744	mg/L	0.000887	0.04744	mg/L	0.000887	1.87%
Si 288.158†	54.0	0.03870	mg/L	0.001545	0.03870	mg/L	0.001545	3.99%
Sn 189.927†	36.2	0.00976	mg/L	0.000575	0.00976	mg/L	0.000575	5.89%
Sr 421.552†	374.0	0.00057	mg/L	0.000031	0.00057	mg/L	0.000031	5.41%
Ti 334.903†	228.8	0.00953	mg/L	0.000594	0.00953	mg/L	0.000594	6.23%
Tl 190.801†	51.0	0.05115	mg/L	0.002588	0.05115	mg/L	0.002588	5.06%
V 292.402†	275.0	0.00113	mg/L	0.000214	0.00113	mg/L	0.000214	18.97%
Zn 206.200†	16.2	0.01864	mg/L	0.001854	0.01864	mg/L	0.001854	9.95%

Sequence No.: 6
Sample ID: JQ42 E TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 26
Date Collected: 8/1/2006 12:23:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ42 E TWC

Analyte	Back Pressure	Flow
All	190.0 kPa	0.50 L/min

Mean Data: JQ42 E TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1544460.8	100.5	%	0.64				0.63%
ScR 361.383	183800.7	100.9	%	0.32				0.32%
Ag 328.068†	551.0	0.00197	mg/L	0.000080	0.00197	mg/L	0.000080	4.03%
Al 308.215†	45.8	0.03423	mg/L	0.012685	0.03423	mg/L	0.012685	37.06%
As 188.979†	36.3	0.04428	mg/L	0.001387	0.04428	mg/L	0.001387	3.13%
B 249.677†	34.8	0.01104	mg/L	0.000906	0.01104	mg/L	0.000906	8.20%
Ba 233.527†	9.2	0.00318	mg/L	0.000287	0.00318	mg/L	0.000287	9.03%
Be 313.042†	574.6	0.00094	mg/L	0.000051	0.00094	mg/L	0.000051	5.41%
Ca 317.933†	855.8	0.04861	mg/L	0.000625	0.04861	mg/L	0.000625	1.29%
Cd 228.802†	54.8	0.00187	mg/L	0.000168	0.00187	mg/L	0.000168	9.02%
Co 228.616†	68.3	0.00213	mg/L	0.000185	0.00213	mg/L	0.000185	8.71%
Cr 267.716†	24.9	0.00334	mg/L	0.000508	0.00334	mg/L	0.000508	15.20%
Cu 324.752†	1052.0	0.00419	mg/L	0.000148	0.00419	mg/L	0.000148	3.53%
Fe 273.955†	10.3	0.01129	mg/L	0.002843	0.01129	mg/L	0.002843	25.19%
K 766.490†	1774.8	1.499	mg/L	0.0197	1.499	mg/L	0.0197	1.31%
Mg 279.077†	52.6	0.04013	mg/L	0.006859	0.04013	mg/L	0.006859	17.09%
Mn 257.610†	27.4	0.00100	mg/L	0.000172	0.00100	mg/L	0.000172	17.15%
Mo 202.031†	42.4	0.00462	mg/L	0.000253	0.00462	mg/L	0.000253	5.47%
Na 589.592†	435.9	0.07141	mg/L	0.001878	0.07141	mg/L	0.001878	2.63%
Na 330.237†	-4.8	-0.1640	mg/L	0.27547	-0.1640	mg/L	0.27547	168.01%
Ni 231.604†	38.6	0.02169	mg/L	0.003381	0.02169	mg/L	0.003381	15.59%
Pb 220.353†	73.3	0.00964	mg/L	0.000057	0.00964	mg/L	0.000057	0.59%
Sb 206.836†	48.2	0.04955	mg/L	0.000795	0.04955	mg/L	0.000795	1.60%
Se 196.026†	55.9	0.04928	mg/L	0.000676	0.04928	mg/L	0.000676	1.37%
Si 288.158†	54.2	0.03882	mg/L	0.005134	0.03882	mg/L	0.005134	13.22%
Sn 189.927†	33.4	0.00900	mg/L	0.001089	0.00900	mg/L	0.001089	12.09%
Sr 421.552†	397.7	0.00061	mg/L	0.000022	0.00061	mg/L	0.000022	3.61%
Ti 334.903†	220.3	0.00917	mg/L	0.000221	0.00917	mg/L	0.000221	2.41%
Tl 190.801†	52.0	0.05223	mg/L	0.004579	0.05223	mg/L	0.004579	8.77%
V 292.402†	256.0	0.00105	mg/L	0.000027	0.00105	mg/L	0.000027	2.55%
Zn 206.200†	10.8	0.01245	mg/L	0.001164	0.01245	mg/L	0.001164	9.35%

Sequence No.: 7
Sample ID: JQ42 F TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 27
Date Collected: 8/1/2006 12:29:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ42 F TWC

Analyte	Back Pressure	Flow
All	190.0 kPa	0.50 L/min

Mean Data: JQ42 F TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1546336.6	100.7	%	0.28				0.28%
ScR 361.383	187372.5	102.9	%	1.38				1.34%
Ag 328.068†	522.5	0.00187	mg/L	0.000099	0.00187	mg/L	0.000099	5.28%
Al 308.215†	55.7	0.04159	mg/L	0.010440	0.04159	mg/L	0.010440	25.10%
As 188.979†	39.2	0.04780	mg/L	0.000807	0.04780	mg/L	0.000807	1.69%
B 249.677†	37.6	0.01192	mg/L	0.000841	0.01192	mg/L	0.000841	7.05%
Ba 233.527†	6.2	0.00212	mg/L	0.000842	0.00212	mg/L	0.000842	39.71%
Be 313.042†	591.2	0.00097	mg/L	0.000061	0.00097	mg/L	0.000061	6.29%
Ca 317.933†	819.3	0.04654	mg/L	0.000606	0.04654	mg/L	0.000606	1.30%
Cd 228.802†	51.5	0.00175	mg/L	0.000085	0.00175	mg/L	0.000085	4.87%
Co 228.616†	66.0	0.00206	mg/L	0.000160	0.00206	mg/L	0.000160	7.77%
Cr 267.716†	29.7	0.00400	mg/L	0.001459	0.00400	mg/L	0.001459	36.48%
Cu 324.752†	1038.0	0.00413	mg/L	0.000107	0.00413	mg/L	0.000107	2.60%
Fe 273.955†	9.6	0.01051	mg/L	0.002292	0.01051	mg/L	0.002292	21.81%
K 766.490†	1743.5	1.473	mg/L	0.0266	1.473	mg/L	0.0266	1.81%
Mg 279.077†	44.0	0.03358	mg/L	0.004254	0.03358	mg/L	0.004254	12.67%
Mn 257.610†	30.9	0.00113	mg/L	0.000179	0.00113	mg/L	0.000179	15.81%
Mo 202.031†	44.1	0.00481	mg/L	0.000477	0.00481	mg/L	0.000477	9.93%
Na 589.592†	407.6	0.06677	mg/L	0.001903	0.06677	mg/L	0.001903	2.85%
Na 330.237†	2.9	0.09720	mg/L	0.371991	0.09720	mg/L	0.371991	382.70%
Ni 231.604†	39.6	0.02229	mg/L	0.000928	0.02229	mg/L	0.000928	4.17%
Pb 220.353†	74.2	0.00976	mg/L	0.000486	0.00976	mg/L	0.000486	4.98%
Sb 206.836†	49.2	0.05063	mg/L	0.001638	0.05063	mg/L	0.001638	3.23%
Se 196.026†	52.6	0.04639	mg/L	0.002562	0.04639	mg/L	0.002562	5.52%
Si 288.158†	49.2	0.03523	mg/L	0.004052	0.03523	mg/L	0.004052	11.50%
Sn 189.927†	37.4	0.01008	mg/L	0.000877	0.01008	mg/L	0.000877	8.70%
Sr 421.552†	367.9	0.00056	mg/L	0.000054	0.00056	mg/L	0.000054	9.61%
Ti 334.903†	233.5	0.00973	mg/L	0.000613	0.00973	mg/L	0.000613	6.30%
Tl 190.801†	51.8	0.05197	mg/L	0.002296	0.05197	mg/L	0.002296	4.42%
V 292.402†	233.0	0.00096	mg/L	0.000182	0.00096	mg/L	0.000182	18.85%
Zn 206.200†	12.6	0.01445	mg/L	0.002261	0.01445	mg/L	0.002261	15.65%

Sequence No.: 8
Sample ID: JQ42 G TWC *
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 28
Date Collected: 8/1/2006 12:36:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ42 G TWC

Analyte	Back Pressure	Flow
All	189.0 kPa	0.50 L/min

Mean Data: JQ42 G TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1558021.8	101.4	%	0.67				0.66%
ScR 361.383	183656.8	100.8	%	0.35				0.34%
Ag 328.068†	532.3	0.00191	mg/L	0.000065	0.00191	mg/L	0.000065	3.40%
Al 308.215†	26.3	0.01955	mg/L	0.013781	0.01955	mg/L	0.013781	70.50%
As 188.979†	38.4	0.04684	mg/L	0.007028	0.04684	mg/L	0.007028	15.00%
B 249.677†	36.6	0.01159	mg/L	0.001313	0.01159	mg/L	0.001313	11.33%
Ba 233.527†	7.5	0.00260	mg/L	0.000730	0.00260	mg/L	0.000730	28.10%
Be 313.042†	598.0	0.00098	mg/L	0.000024	0.00098	mg/L	0.000024	2.48%
Ca 317.933†	786.6	0.04468	mg/L	0.000612	0.04468	mg/L	0.000612	1.37%
Cd 228.802†	55.1	0.00187	mg/L	0.000108	0.00187	mg/L	0.000108	5.75%
Co 228.616†	59.4	0.00185	mg/L	0.000150	0.00185	mg/L	0.000150	8.10%
Cr 267.716†	21.8	0.00293	mg/L	0.000262	0.00293	mg/L	0.000262	8.93%
Cu 324.752†	1021.7	0.00406	mg/L	0.000087	0.00406	mg/L	0.000087	2.14%
Fe 273.955†	8.1	0.00880	mg/L	0.003024	0.00880	mg/L	0.003024	34.37%
K 766.490†	1807.9	1.527	mg/L	0.0253	1.527	mg/L	0.0253	1.66%
Mg 279.077†	48.5	0.03701	mg/L	0.008210	0.03701	mg/L	0.008210	22.18%
Mn 257.610†	29.4	0.00107	mg/L	0.000169	0.00107	mg/L	0.000169	15.78%
Mo 202.031†	47.4	0.00517	mg/L	0.000447	0.00517	mg/L	0.000447	8.66%
Na 589.592†	409.4	0.06707	mg/L	0.002907	0.06707	mg/L	0.002907	4.33%
Na 330.237†	-3.4	-0.1148	mg/L	0.25234	-0.1148	mg/L	0.25234	219.74%
Ni 231.604†	34.3	0.01932	mg/L	0.002582	0.01932	mg/L	0.002582	13.36%
Pb 220.353†	73.8	0.00970	mg/L	0.000903	0.00970	mg/L	0.000903	9.31%
Sb 206.836†	49.8	0.05127	mg/L	0.002721	0.05127	mg/L	0.002721	5.31%
Se 196.026†	52.0	0.04582	mg/L	0.004412	0.04582	mg/L	0.004412	9.63%
Si 288.158†	56.6	0.04055	mg/L	0.005242	0.04055	mg/L	0.005242	12.93%
Sn 189.927†	34.7	0.00936	mg/L	0.001179	0.00936	mg/L	0.001179	12.60%
Sr 421.552†	354.4	0.00054	mg/L	0.000041	0.00054	mg/L	0.000041	7.58%
Ti 334.903†	216.6	0.00902	mg/L	0.000524	0.00902	mg/L	0.000524	5.81%
Tl 190.801†	53.2	0.05337	mg/L	0.003584	0.05337	mg/L	0.003584	6.71%
V 292.402†	249.6	0.00102	mg/L	0.000050	0.00102	mg/L	0.000050	4.92%
Zn 206.200†	8.9	0.01029	mg/L	0.001315	0.01029	mg/L	0.001315	12.78%

Sequence No.: 9
Sample ID: JQ42 H TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 29
Date Collected: 8/1/2006 12:42:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ42 H TWC

Analyte	Back Pressure	Flow
All	190.0 kPa	0.50 L/min

Mean Data: JQ42 H TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1558585.9	101.5	%	0.93				0.92%
ScR 361.383	182339.3	100.1	%	0.67				0.67%
Ag 328.068†	535.3	0.00192	mg/L	0.000374	0.00192	mg/L	0.000374	19.52%
Al 308.215†	65.3	0.04879	mg/L	0.012716	0.04879	mg/L	0.012716	26.06%
As 188.979†	37.5	0.04580	mg/L	0.002536	0.04580	mg/L	0.002536	5.54%
B 249.677†	40.3	0.01276	mg/L	0.001325	0.01276	mg/L	0.001325	10.39%
Ba 233.527†	7.5	0.00259	mg/L	0.001807	0.00259	mg/L	0.001807	69.72%
Be 313.042†	571.0	0.00093	mg/L	0.000035	0.00093	mg/L	0.000035	3.72%
Ca 317.933†	812.1	0.04612	mg/L	0.000642	0.04612	mg/L	0.000642	1.39%
Cd 228.802†	50.9	0.00173	mg/L	0.000097	0.00173	mg/L	0.000097	5.61%
Co 228.616†	69.6	0.00217	mg/L	0.000189	0.00217	mg/L	0.000189	8.70%
Cr 267.716†	31.7	0.00426	mg/L	0.000833	0.00426	mg/L	0.000833	19.55%
Cu 324.752†	1022.9	0.00407	mg/L	0.000222	0.00407	mg/L	0.000222	5.46%
Fe 273.955†	8.8	0.00957	mg/L	0.001508	0.00957	mg/L	0.001508	15.76%
K 766.490†	1824.2	1.541	mg/L	0.0305	1.541	mg/L	0.0305	1.98%
Mg 279.077†	56.8	0.04334	mg/L	0.004300	0.04334	mg/L	0.004300	9.92%
Mn 257.610†	26.3	0.00096	mg/L	0.000081	0.00096	mg/L	0.000081	8.44%
Mo 202.031†	43.7	0.00476	mg/L	0.000276	0.00476	mg/L	0.000276	5.80%
Na 589.592†	380.5	0.06233	mg/L	0.001407	0.06233	mg/L	0.001407	2.26%
Na 330.237†	-9.4	-0.3168	mg/L	0.14749	-0.3168	mg/L	0.14749	46.56%
Ni 231.604†	36.9	0.02078	mg/L	0.002246	0.02078	mg/L	0.002246	10.81%
Pb 220.353†	71.7	0.00943	mg/L	0.000544	0.00943	mg/L	0.000544	5.77%
Sb 206.836†	52.1	0.05363	mg/L	0.001206	0.05363	mg/L	0.001206	2.25%
Se 196.026†	52.5	0.04628	mg/L	0.000691	0.04628	mg/L	0.000691	1.49%
Si 288.158†	58.1	0.04161	mg/L	0.001604	0.04161	mg/L	0.001604	3.86%
Sn 189.927†	34.1	0.00920	mg/L	0.000098	0.00920	mg/L	0.000098	1.07%
Sr 421.552†	365.1	0.00056	mg/L	0.000001	0.00056	mg/L	0.000001	0.18%
Ti 334.903†	229.7	0.00957	mg/L	0.000286	0.00957	mg/L	0.000286	2.98%
Tl 190.801†	51.6	0.05183	mg/L	0.001746	0.05183	mg/L	0.001746	3.37%
V 292.402†	230.9	0.00096	mg/L	0.000087	0.00096	mg/L	0.000087	9.11%
Zn 206.200†	10.1	0.01164	mg/L	0.001710	0.01164	mg/L	0.001710	14.69%

Sequence No.: 10
Sample ID: JQ42 I TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 30
Date Collected: 8/1/2006 12:49:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ42 I TWC

Analyte	Back Pressure	Flow
All	190.0 kPa	0.50 L/min

Mean Data: JQ42 I TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1556175.2	101.3	%	0.56				0.55%
ScR 361.383	185474.2	101.8	%	0.13				0.13%
Ag 328.068†	554.8	0.00199	mg/L	0.000102	0.00199	mg/L	0.000102	5.11%
Al 308.215†	62.8	0.04697	mg/L	0.025908	0.04697	mg/L	0.025908	55.16%
As 188.979†	37.9	0.04622	mg/L	0.002858	0.04622	mg/L	0.002858	6.18%
B 249.677†	33.2	0.01053	mg/L	0.000806	0.01053	mg/L	0.000806	7.65%
Ba 233.527†	9.0	0.00309	mg/L	0.000599	0.00309	mg/L	0.000599	19.38%
Be 313.042†	583.9	0.00095	mg/L	0.000045	0.00095	mg/L	0.000045	4.74%
Ca 317.933†	814.7	0.04627	mg/L	0.001387	0.04627	mg/L	0.001387	3.00%
Cd 228.802†	52.1	0.00177	mg/L	0.000052	0.00177	mg/L	0.000052	2.92%
Co 228.616†	64.4	0.00201	mg/L	0.000075	0.00201	mg/L	0.000075	3.74%
Cr 267.716†	21.9	0.00295	mg/L	0.000342	0.00295	mg/L	0.000342	11.63%
Cu 324.752†	990.3	0.00394	mg/L	0.000226	0.00394	mg/L	0.000226	5.75%
Fe 273.955†	7.4	0.00813	mg/L	0.001403	0.00813	mg/L	0.001403	17.27%
K 766.490†	1766.5	1.492	mg/L	0.0099	1.492	mg/L	0.0099	0.66%
Mg 279.077†	42.9	0.03275	mg/L	0.011247	0.03275	mg/L	0.011247	34.34%
Mn 257.610†	23.8	0.00087	mg/L	0.000096	0.00087	mg/L	0.000096	11.01%
Mo 202.031†	43.8	0.00478	mg/L	0.000402	0.00478	mg/L	0.000402	8.42%
Na 589.592†	435.6	0.07136	mg/L	0.003680	0.07136	mg/L	0.003680	5.16%
Na 330.237†	-2.3	-0.07930	mg/L	0.616870	-0.07930	mg/L	0.616870	777.92%
Ni 231.604†	39.8	0.02236	mg/L	0.002230	0.02236	mg/L	0.002230	9.97%
Pb 220.353†	75.0	0.00986	mg/L	0.000839	0.00986	mg/L	0.000839	8.51%
Sb 206.836†	51.2	0.05270	mg/L	0.003637	0.05270	mg/L	0.003637	6.90%
Se 196.026†	60.1	0.05301	mg/L	0.004324	0.05301	mg/L	0.004324	8.16%
Si 288.158†	58.8	0.04212	mg/L	0.003111	0.04212	mg/L	0.003111	7.39%
Sn 189.927†	32.4	0.00875	mg/L	0.000744	0.00875	mg/L	0.000744	8.51%
Sr 421.552†	403.5	0.00062	mg/L	0.000041	0.00062	mg/L	0.000041	6.71%
Ti 334.903†	229.8	0.00957	mg/L	0.000351	0.00957	mg/L	0.000351	3.66%
Tl 190.801†	49.4	0.04964	mg/L	0.003772	0.04964	mg/L	0.003772	7.60%
V 292.402†	230.6	0.00095	mg/L	0.000101	0.00095	mg/L	0.000101	10.62%
Zn 206.200†	9.3	0.01071	mg/L	0.002511	0.01071	mg/L	0.002511	23.44%

Sequence No.: 11
Sample ID: CV 3
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/1/2006 12:55:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	190.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1499086.3	97.59	%	0.364				0.37%
ScR 361.383	184780.9	101.5	%	0.94				0.93%
Ag 328.068†	274143.7	0.9823	mg/L	0.00339	0.9823	mg/L	0.00339	0.35%
Al 308.215†	2656.8	1.954	mg/L	0.0118	1.954	mg/L	0.0118	0.60%
As 188.979†	1625.9	1.980	mg/L	0.0167	1.980	mg/L	0.0167	0.84%
B 249.677†	3016.4	0.9579	mg/L	0.00903	0.9579	mg/L	0.00903	0.94%
Ba 233.527†	2799.4	0.9649	mg/L	0.00879	0.9649	mg/L	0.00879	0.91%
Be 313.042†	600851.7	0.9813	mg/L	0.00069	0.9813	mg/L	0.00069	0.07%
Ca 317.933†	35829.6	2.035	mg/L	0.0017	2.035	mg/L	0.0017	0.08%
Cd 228.802†	28865.6	1.012	mg/L	0.0060	1.012	mg/L	0.0060	0.59%
Co 228.616†	31200.1	0.9785	mg/L	0.00643	0.9785	mg/L	0.00643	0.66%
Cr 267.716†	6952.8	0.9355	mg/L	0.00993	0.9355	mg/L	0.00993	1.06%
Cu 324.752†	256894.6	1.023	mg/L	0.0031	1.023	mg/L	0.0031	0.30%
Fe 273.955†	1837.0	2.004	mg/L	0.0230	2.004	mg/L	0.0230	1.15%
K 766.490†	23293.0	19.67	mg/L	0.069	19.67	mg/L	0.069	0.35%
Mg 279.077†	2653.2	2.028	mg/L	0.0087	2.028	mg/L	0.0087	0.43%
Mn 257.610†	25874.4	0.9457	mg/L	0.00314	0.9457	mg/L	0.00314	0.33%
Mo 202.031†	9147.6	0.9965	mg/L	0.00621	0.9965	mg/L	0.00621	0.62%
Na 589.592†	302182.7	49.50	mg/L	0.170	49.50	mg/L	0.170	0.34%
Na 330.237†	1492.5	50.20	mg/L	0.319	50.20	mg/L	0.319	0.63%
Ni 231.604†	1771.5	0.9963	mg/L	0.01114	0.9963	mg/L	0.01114	1.12%
Pb 220.353†	15126.4	1.987	mg/L	0.0055	1.987	mg/L	0.0055	0.27%
Sb 206.836†	1839.0	1.890	mg/L	0.0136	1.890	mg/L	0.0136	0.72%
Se 196.026†	2261.2	1.993	mg/L	0.0120	1.993	mg/L	0.0120	0.60%
Si 288.158†	2797.0	2.005	mg/L	0.0204	2.005	mg/L	0.0204	1.02%
Sn 189.927†	3536.8	0.9471	mg/L	0.00534	0.9471	mg/L	0.00534	0.56%
Sr 421.552†	636527.7	0.9735	mg/L	0.00214	0.9735	mg/L	0.00214	0.22%
Ti 334.903†	23860.1	0.9931	mg/L	0.00126	0.9931	mg/L	0.00126	0.13%
Tl 190.801†	1957.4	1.962	mg/L	0.0107	1.962	mg/L	0.0107	0.54%
V 292.402†	243878.9	0.9872	mg/L	0.00438	0.9872	mg/L	0.00438	0.44%
Zn 206.200†	881.2	1.013	mg/L	0.0124	1.013	mg/L	0.0124	1.22%

Sequence No.: 12
Sample ID: CB3
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/1/2006 1:01:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	191.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1543684.9	100.5	%	0.53				0.53%
ScR 361.383	184460.1	101.3	%	0.56				0.56%
Ag 328.068†	24.6	0.00009	mg/L	0.000073	0.00009	mg/L	0.000073	83.22%
Al 308.215†	2.3	0.00171	mg/L	0.017211	0.00171	mg/L	0.017211	>999.9%
As 188.979†	-0.4	-0.00043	mg/L	0.002436	-0.00043	mg/L	0.002436	563.17%
B 249.677†	13.1	0.00415	mg/L	0.000715	0.00415	mg/L	0.000715	17.24%
Ba 233.527†	0.4	0.00014	mg/L	0.001335	0.00014	mg/L	0.001335	940.64%
Be 313.042†	5.8	0.00001	mg/L	0.000015	0.00001	mg/L	0.000015	156.58%
Ca 317.933†	8.8	0.00050	mg/L	0.000874	0.00050	mg/L	0.000874	175.63%
Cd 228.802†	-3.1	-0.00011	mg/L	0.000150	-0.00011	mg/L	0.000150	137.41%
Co 228.616†	4.4	0.00014	mg/L	0.000075	0.00014	mg/L	0.000075	54.34%
Cr 267.716†	0.8	0.00011	mg/L	0.000347	0.00011	mg/L	0.000347	327.26%
Cu 324.752†	-8.0	-0.00003	mg/L	0.000090	-0.00003	mg/L	0.000090	282.60%
Fe 273.955†	-2.8	-0.00301	mg/L	0.002784	-0.00301	mg/L	0.002784	92.62%
K 766.490†	-71.3	-0.06023	mg/L	0.036037	-0.06023	mg/L	0.036037	59.83%
Mg 279.077†	-13.8	-0.01049	mg/L	0.007412	-0.01049	mg/L	0.007412	70.64%
Mn 257.610†	1.3	0.00005	mg/L	0.000129	0.00005	mg/L	0.000129	261.69%
Mo 202.031†	2.9	0.00032	mg/L	0.000257	0.00032	mg/L	0.000257	80.53%
Na 589.592†	48.9	0.00802	mg/L	0.004663	0.00802	mg/L	0.004663	58.15%
Na 330.237†	-20.0	-0.6736	mg/L	0.63813	-0.6736	mg/L	0.63813	94.74%
Ni 231.604†	1.5	0.00086	mg/L	0.000983	0.00086	mg/L	0.000983	114.53%
Pb 220.353†	4.0	0.00053	mg/L	0.000341	0.00053	mg/L	0.000341	64.77%
Sb 206.836†	3.2	0.00333	mg/L	0.002745	0.00333	mg/L	0.002745	82.55%
Se 196.026†	2.7	0.00237	mg/L	0.003064	0.00237	mg/L	0.003064	129.16%
Si 288.158†	7.2	0.00513	mg/L	0.005319	0.00513	mg/L	0.005319	103.74%
Sn 189.927†	3.9	0.00105	mg/L	0.000636	0.00105	mg/L	0.000636	60.69%
Sr 421.552†	68.3	0.00010	mg/L	0.000046	0.00010	mg/L	0.000046	43.92%
Ti 334.903†	-27.9	-0.00116	mg/L	0.000540	-0.00116	mg/L	0.000540	46.51%
Tl 190.801†	3.0	0.00299	mg/L	0.001151	0.00299	mg/L	0.001151	38.48%
V 292.402†	28.8	0.00012	mg/L	0.000009	0.00012	mg/L	0.000009	7.27%
Zn 206.200†	0.2	0.00025	mg/L	0.001568	0.00025	mg/L	0.001568	624.74%

Sequence No.: 13
Sample ID: JQ43 MB SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 31
Date Collected: 8/1/2006 1:08:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ43 MB SWC

Analyte	Back Pressure	Flow
All	190.0 kPa	0.50 L/min

Mean Data: JQ43 MB SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1575757.5	102.6	%	0.49				0.47%
ScR 361.383	186395.4	102.3	%	0.57				0.56%
Ag 328.068†	4.2	0.00002	mg/L	0.000188	0.00003	mg/L	0.000376	>999.9%
Al 308.215†	31.2	0.02334	mg/L	0.024245	0.04668	mg/L	0.048489	103.88%
As 188.979†	-2.5	-0.00303	mg/L	0.004131	-0.00606	mg/L	0.008262	136.36%
B 249.677†	12.0	0.00381	mg/L	0.000451	0.00761	mg/L	0.000902	11.85%
Ba 233.527†	-1.3	-0.00044	mg/L	0.000682	-0.00089	mg/L	0.001364	154.02%
Be 313.042†	-29.3	-0.00005	mg/L	0.000074	-0.00010	mg/L	0.000148	153.39%
Ca 317.933†	534.1	0.03034	mg/L	0.000735	0.06067	mg/L	0.001469	2.42%
Cd 228.802†	-5.9	-0.00020	mg/L	0.000075	-0.00041	mg/L	0.000149	36.72%
Co 228.616†	-0.8	-0.00002	mg/L	0.000268	-0.00005	mg/L	0.000537	>999.9%
Cr 267.716†	-3.7	-0.00049	mg/L	0.001086	-0.00099	mg/L	0.002172	220.36%
Cu 324.752†	-34.5	-0.00014	mg/L	0.000125	-0.00028	mg/L	0.000250	91.07%
Fe 273.955†	-0.8	-0.00090	mg/L	0.001942	-0.00181	mg/L	0.003885	214.71%
K 766.490†	-46.3	-0.03908	mg/L	0.027429	-0.07817	mg/L	0.054858	70.18%
Mg 279.077†	-16.6	-0.01270	mg/L	0.003408	-0.02539	mg/L	0.006816	26.84%
Mn 257.610†	4.5	0.00016	mg/L	0.000041	0.00033	mg/L	0.000082	25.00%
Mo 202.031†	0.5	0.00006	mg/L	0.000438	0.00011	mg/L	0.000876	765.20%
Na 589.592†	43.6	0.00715	mg/L	0.004379	0.01430	mg/L	0.008758	61.24%
Na 330.237†	-5.3	-0.1792	mg/L	0.53633	-0.3584	mg/L	1.07266	299.28%
Ni 231.604†	-1.2	-0.00068	mg/L	0.000344	-0.00136	mg/L	0.000688	50.52%
Pb 220.353†	-5.4	-0.00071	mg/L	0.000304	-0.00141	mg/L	0.000607	42.95%
Sb 206.836†	2.3	0.00238	mg/L	0.001280	0.00475	mg/L	0.002559	53.86%
Se 196.026†	4.7	0.00411	mg/L	0.002848	0.00821	mg/L	0.005695	69.37%
Si 288.158†	7.7	0.00548	mg/L	0.004603	0.01096	mg/L	0.009206	84.02%
Sn 189.927†	9.7	0.00261	mg/L	0.000926	0.00521	mg/L	0.001851	35.52%
Sr 421.552†	164.8	0.00025	mg/L	0.000008	0.00050	mg/L	0.000015	3.02%
Ti 334.903†	-8.4	-0.00035	mg/L	0.000710	-0.00070	mg/L	0.001420	203.79%
Tl 190.801†	3.2	0.00325	mg/L	0.002375	0.00649	mg/L	0.004750	73.15%
V 292.402†	35.1	0.00014	mg/L	0.000150	0.00028	mg/L	0.000301	108.90%
Zn 206.200†	3.2	0.00366	mg/L	0.000441	0.00732	mg/L	0.000883	12.05%

Sequence No.: 14
Sample ID: JQ43 A SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 32
Date Collected: 8/1/2006 1:14:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ43 A SWC

Analyte	Back Pressure	Flow
All	190.0 kPa	0.50 L/min

Mean Data: JQ43 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1560451.1	101.6	%	1.04				1.03%
ScR 361.383	188380.0	103.4	%	0.34				0.33%
Ag 328.068†	577.8	0.00207	mg/L	0.000108	0.00414	mg/L	0.000216	5.21%
Al 308.215†	78.4	0.05866	mg/L	0.017131	0.1173	mg/L	0.03426	29.21%
As 188.979†	37.7	0.04598	mg/L	0.004187	0.09195	mg/L	0.008374	9.11%
B 249.677†	41.6	0.01317	mg/L	0.001086	0.02633	mg/L	0.002172	8.25%
Ba 233.527†	4.7	0.00163	mg/L	0.000915	0.00327	mg/L	0.001830	55.99%
Be 313.042†	594.1	0.00097	mg/L	0.000063	0.00194	mg/L	0.000126	6.48%
Ca 317.933†	1410.5	0.08011	mg/L	0.001669	0.1602	mg/L	0.00334	2.08%
Cd 228.802†	49.4	0.00168	mg/L	0.000034	0.00335	mg/L	0.000067	2.00%
Co 228.616†	70.2	0.00219	mg/L	0.000060	0.00438	mg/L	0.000120	2.74%
Cr 267.716†	29.5	0.00397	mg/L	0.000630	0.00794	mg/L	0.001261	15.88%
Cu 324.752†	987.9	0.00393	mg/L	0.000301	0.00786	mg/L	0.000602	7.66%
Fe 273.955†	15.2	0.01654	mg/L	0.001510	0.03308	mg/L	0.003020	9.13%
K 766.490†	1768.1	1.493	mg/L	0.0492	2.987	mg/L	0.0984	3.29%
Mg 279.077†	62.8	0.04790	mg/L	0.008459	0.09580	mg/L	0.016919	17.66%
Mn 257.610†	31.5	0.00115	mg/L	0.000145	0.00230	mg/L	0.000289	12.56%
Mo 202.031†	44.2	0.00481	mg/L	0.000165	0.00962	mg/L	0.000329	3.42%
Na 589.592†	373.4	0.06118	mg/L	0.001063	0.1224	mg/L	0.00213	1.74%
Na 330.237†	-12.3	-0.4156	mg/L	0.33699	-0.8311	mg/L	0.67397	81.09%
Ni 231.604†	38.1	0.02142	mg/L	0.002763	0.04284	mg/L	0.005525	12.90%
Pb 220.353†	71.6	0.00942	mg/L	0.000236	0.01885	mg/L	0.000472	2.50%
Sb 206.836†	51.3	0.05282	mg/L	0.001355	0.1056	mg/L	0.00271	2.57%
Se 196.026†	55.3	0.04873	mg/L	0.002131	0.09745	mg/L	0.004261	4.37%
Si 288.158†	52.8	0.03779	mg/L	0.004384	0.07559	mg/L	0.008769	11.60%
Sn 189.927†	39.3	0.01059	mg/L	0.000669	0.02119	mg/L	0.001337	6.31%
Sr 421.552†	535.2	0.00082	mg/L	0.000048	0.00164	mg/L	0.000097	5.91%
Ti 334.903†	262.6	0.01094	mg/L	0.000592	0.02187	mg/L	0.001183	5.41%
Tl 190.801†	53.5	0.05375	mg/L	0.001692	0.1075	mg/L	0.00338	3.15%
V 292.402†	246.3	0.00102	mg/L	0.000105	0.00203	mg/L	0.000210	10.33%
Zn 206.200†	7.7	0.00890	mg/L	0.001370	0.01781	mg/L	0.002740	15.38%

Sequence No.: 15
Sample ID: JQ43 B SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 33
Date Collected: 8/1/2006 1:21:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ43 B SWC

Analyte	Back Pressure	Flow
All	190.0 kPa	0.50 L/min

Mean Data: JQ43 B SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1555133.2	101.2	%	0.89				0.87%
ScR 361.383	185226.9	101.7	%	0.98				0.97%
Ag 328.068†	538.3	0.00193	mg/L	0.000082	0.00386	mg/L	0.000164	4.25%
Al 308.215†	62.0	0.04636	mg/L	0.004204	0.09272	mg/L	0.008408	9.07%
As 188.979†	37.1	0.04527	mg/L	0.004529	0.09055	mg/L	0.009059	10.00%
B 249.677†	36.5	0.01155	mg/L	0.001417	0.02310	mg/L	0.002834	12.27%
Ba 233.527†	7.0	0.00240	mg/L	0.000517	0.00481	mg/L	0.001034	21.52%
Be 313.042†	565.3	0.00092	mg/L	0.000037	0.00185	mg/L	0.000073	3.97%
Ca 317.933†	1372.9	0.07798	mg/L	0.001168	0.1560	mg/L	0.00234	1.50%
Cd 228.802†	52.1	0.00177	mg/L	0.000073	0.00355	mg/L	0.000145	4.10%
Co 228.616†	68.7	0.00214	mg/L	0.000085	0.00428	mg/L	0.000169	3.95%
Cr 267.716†	26.1	0.00350	mg/L	0.000294	0.00701	mg/L	0.000587	8.38%
Cu 324.752†	1008.0	0.00401	mg/L	0.000270	0.00802	mg/L	0.000539	6.72%
Fe 273.955†	11.1	0.01217	mg/L	0.002823	0.02435	mg/L	0.005646	23.19%
K 766.490†	1840.8	1.555	mg/L	0.0244	3.109	mg/L	0.0488	1.57%
Mg 279.077†	53.3	0.04068	mg/L	0.010818	0.08136	mg/L	0.021637	26.59%
Mn 257.610†	29.3	0.00107	mg/L	0.000034	0.00214	mg/L	0.000067	3.14%
Mo 202.031†	43.2	0.00471	mg/L	0.000421	0.00942	mg/L	0.000842	8.94%
Na 589.592†	380.8	0.06238	mg/L	0.003975	0.1248	mg/L	0.00795	6.37%
Na 330.237†	-8.4	-0.2821	mg/L	0.29733	-0.5641	mg/L	0.59465	105.41%
Ni 231.604†	40.6	0.02286	mg/L	0.000441	0.04571	mg/L	0.000882	1.93%
Pb 220.353†	75.3	0.00990	mg/L	0.000581	0.01980	mg/L	0.001163	5.87%
Sb 206.836†	47.9	0.04926	mg/L	0.004846	0.09851	mg/L	0.009693	9.84%
Se 196.026†	57.4	0.05063	mg/L	0.007073	0.1013	mg/L	0.01415	13.97%
Si 288.158†	49.8	0.03568	mg/L	0.005389	0.07136	mg/L	0.010777	15.10%
Sn 189.927†	35.2	0.00948	mg/L	0.000494	0.01896	mg/L	0.000989	5.21%
Sr 421.552†	488.0	0.00075	mg/L	0.000019	0.00149	mg/L	0.000038	2.54%
Ti 334.903†	260.5	0.01085	mg/L	0.000371	0.02170	mg/L	0.000741	3.42%
Tl 190.801†	52.2	0.05238	mg/L	0.000563	0.1048	mg/L	0.00113	1.08%
V 292.402†	220.5	0.00091	mg/L	0.000043	0.00182	mg/L	0.000085	4.68%
Zn 206.200†	8.1	0.000933	mg/L	0.001561	0.01866	mg/L	0.003123	16.74%

Sequence No.: 16
Sample ID: JQ43 C SWC F
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 34
Date Collected: 8/1/2006 1:27:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ43 C SWC

Analyte	Back Pressure	Flow
All	191.0 kPa	0.50 L/min

Mean Data: JQ43 C SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1548365.0	100.8	%	0.82				0.81%
ScR 361.383	186694.7	102.5	%	0.92				0.90%
Ag 328.068†	580.3	0.00208	mg/L	0.000152	0.00416	mg/L	0.000304	7.32%
Al 308.215†	74.4	0.05561	mg/L	0.004783	0.1112	mg/L	0.00957	8.60%
As 188.979†	41.1	0.05018	mg/L	0.000538	0.1004	mg/L	0.00108	1.07%
B 249.677†	36.6	0.01161	mg/L	0.001162	0.02321	mg/L	0.002325	10.02%
Ba 233.527†	8.4	0.00289	mg/L	0.000618	0.00578	mg/L	0.001235	21.39%
Be 313.042†	620.7	0.00101	mg/L	0.000011	0.00203	mg/L	0.000021	1.04%
Ca 317.933†	1389.0	0.07889	mg/L	0.002535	0.1578	mg/L	0.00507	3.21%
Cd 228.802†	54.3	0.00184	mg/L	0.000263	0.00368	mg/L	0.000527	14.30%
Co 228.616†	70.6	0.00220	mg/L	0.000344	0.00440	mg/L	0.000688	15.65%
Cr 267.716†	26.7	0.00359	mg/L	0.001214	0.00718	mg/L	0.002428	33.83%
Cu 324.752†	1068.5	0.00425	mg/L	0.000119	0.00850	mg/L	0.000237	2.79%
Fe 273.955†	16.4	0.01793	mg/L	0.001222	0.03586	mg/L	0.002445	6.82%
K 766.490†	1803.1	1.523	mg/L	0.0166	3.046	mg/L	0.0332	1.09%
Mg 279.077†	45.6	0.03481	mg/L	0.009804	0.06961	mg/L	0.019608	28.17%
Mn 257.610†	31.0	0.00114	mg/L	0.000104	0.00227	mg/L	0.000208	9.15%
Mo 202.031†	44.4	0.00484	mg/L	0.000283	0.00968	mg/L	0.000566	5.84%
Na 589.592†	375.4	0.06150	mg/L	0.002641	0.1230	mg/L	0.00528	4.29%
Na 330.237†	-9.9	-0.3354	mg/L	0.14816	-0.6708	mg/L	0.29631	44.17%
Ni 231.604†	37.4	0.02103	mg/L	0.000647	0.04206	mg/L	0.001294	3.08%
Pb 220.353†	78.3	0.01030	mg/L	0.000604	0.02060	mg/L	0.001209	5.87%
Sb 206.836†	54.3	0.05586	mg/L	0.001681	0.1117	mg/L	0.00336	3.01%
Se 196.026†	58.9	0.05198	mg/L	0.004300	0.1040	mg/L	0.00860	8.27%
Si 288.158†	54.0	0.03870	mg/L	0.006571	0.07739	mg/L	0.013142	16.98%
Sn 189.927†	38.9	0.01048	mg/L	0.001315	0.02096	mg/L	0.002630	12.55%
Sr 421.552†	497.0	0.00076	mg/L	0.000033	0.00152	mg/L	0.000066	4.37%
Ti 334.903†	256.5	0.01068	mg/L	0.000509	0.02137	mg/L	0.001018	4.76%
Tl 190.801†	52.5	0.05271	mg/L	0.004331	0.1054	mg/L	0.00866	8.22%
V 292.402†	261.7	0.00108	mg/L	0.000158	0.00215	mg/L	0.000316	14.68%
Zn 206.200†	11.2	0.01285	mg/L	0.001873	0.02570	mg/L	0.003747	14.58%

Sequence No.: 17
Sample ID: JQ43 D SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 35
Date Collected: 8/1/2006 1:33:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ43 D SWC

Analyte	Back Pressure	Flow
All	190.0 kPa	0.50 L/min

Mean Data: JQ43 D SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1571848.9	102.3	%	0.42				0.42%
ScR 361.383	186655.9	102.5	%	0.54				0.53%
Ag 328.068†	606.1	0.00217	mg/L	0.000174	0.00434	mg/L	0.000348	8.00%
Al 308.215†	67.6	0.05051	mg/L	0.011328	0.1010	mg/L	0.02266	22.43%
As 188.979†	39.2	0.04778	mg/L	0.002836	0.09556	mg/L	0.005672	5.94%
B 249.677†	29.0	0.00921	mg/L	0.001114	0.01841	mg/L	0.002227	12.10%
Ba 233.527†	8.1	0.00278	mg/L	0.002050	0.00556	mg/L	0.004100	73.73%
Be 313.042†	573.6	0.00094	mg/L	0.000044	0.00187	mg/L	0.000088	4.68%
Ca 317.933†	1009.9	0.05736	mg/L	0.000581	0.1147	mg/L	0.00116	1.01%
Cd 228.802†	54.4	0.00185	mg/L	0.000091	0.00370	mg/L	0.000182	4.91%
Co 228.616†	66.6	0.00208	mg/L	0.000179	0.00416	mg/L	0.000358	8.61%
Cr 267.716†	23.7	0.00318	mg/L	0.001490	0.00637	mg/L	0.002981	46.80%
Cu 324.752†	943.6	0.00375	mg/L	0.000056	0.00751	mg/L	0.000113	1.50%
Fe 273.955†	9.9	0.01085	mg/L	0.003832	0.02170	mg/L	0.007663	35.32%
K 766.490†	1847.3	1.560	mg/L	0.0603	3.120	mg/L	0.1206	3.86%
Mg 279.077†	53.4	0.04075	mg/L	0.006381	0.08150	mg/L	0.012761	15.66%
Mn 257.610†	29.7	0.00109	mg/L	0.000099	0.00217	mg/L	0.000199	9.14%
Mo 202.031†	46.5	0.00506	mg/L	0.000219	0.01013	mg/L	0.000438	4.33%
Na 589.592†	364.4	0.05970	mg/L	0.004878	0.1194	mg/L	0.00976	8.17%
Na 330.237†	-7.2	-0.2426	mg/L	0.38268	-0.4853	mg/L	0.76536	157.72%
Ni 231.604†	39.4	0.02216	mg/L	0.000550	0.04432	mg/L	0.001100	2.48%
Pb 220.353†	74.9	0.00984	mg/L	0.000410	0.01968	mg/L	0.000820	4.17%
Sb 206.836†	51.8	0.05333	mg/L	0.002458	0.1067	mg/L	0.00492	4.61%
Se 196.026†	58.1	0.05120	mg/L	0.003279	0.1024	mg/L	0.00656	6.40%
Si 288.158†	57.2	0.04098	mg/L	0.006817	0.08196	mg/L	0.013634	16.63%
Sn 189.927†	37.4	0.01009	mg/L	0.000826	0.02019	mg/L	0.001652	8.18%
Sr 421.552†	508.9	0.00078	mg/L	0.000022	0.00156	mg/L	0.000045	2.88%
Ti 334.903†	233.7	0.00973	mg/L	0.001296	0.01946	mg/L	0.002591	13.31%
Tl 190.801†	51.5	0.05175	mg/L	0.000496	0.1035	mg/L	0.00099	0.96%
V 292.402†	220.9	0.00091	mg/L	0.000192	0.00182	mg/L	0.000385	21.15%
Zn 206.200†	7.7	0.00882	mg/L	0.000827	0.01764	mg/L	0.001654	9.37%

Sequence No.: 18
Sample ID: JQ43 E SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 36
Date Collected: 8/1/2006 1:40:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ43 E SWC

Analyte	Back Pressure	Flow
All	190.0 kPa	0.50 L/min

Mean Data: JQ43 E SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1553207.7	101.1	%	0.57				0.57%
ScR 361.383	185443.8	101.8	%	1.25				1.22%
Ag 328.068†	558.7	0.00200	mg/L	0.000038	0.00400	mg/L	0.000076	1.90%
Al 308.215†	59.5	0.04447	mg/L	0.010256	0.08894	mg/L	0.020512	23.06%
As 188.979†	39.9	0.04864	mg/L	0.002661	0.09729	mg/L	0.005321	5.47%
B 249.677†	42.0	0.01330	mg/L	0.000756	0.02660	mg/L	0.001512	5.68%
Ba 233.527†	7.4	0.00254	mg/L	0.000782	0.00508	mg/L	0.001563	30.80%
Be 313.042†	585.0	0.00096	mg/L	0.000027	0.00191	mg/L	0.000054	2.83%
Ca 317.933†	1138.4	0.06466	mg/L	0.000767	0.1293	mg/L	0.00153	1.19%
Cd 228.802†	52.3	0.00177	mg/L	0.000116	0.00355	mg/L	0.000232	6.53%
Co 228.616†	69.5	0.00217	mg/L	0.000149	0.00433	mg/L	0.000299	6.89%
Cr 267.716†	28.9	0.00388	mg/L	0.000959	0.00776	mg/L	0.001918	24.71%
Cu 324.752†	1096.9	0.00436	mg/L	0.000174	0.00873	mg/L	0.000349	4.00%
Fe 273.955†	10.0	0.01089	mg/L	0.002191	0.02177	mg/L	0.004383	20.13%
K 766.490†	1819.3	1.537	mg/L	0.0430	3.073	mg/L	0.0860	2.80%
Mg 279.077†	41.8	0.03188	mg/L	0.011271	0.06375	mg/L	0.022541	35.36%
Mn 257.610†	28.8	0.00106	mg/L	0.000169	0.00211	mg/L	0.000337	15.98%
Mo 202.031†	42.1	0.00458	mg/L	0.000202	0.00917	mg/L	0.000405	4.41%
Na 589.592†	365.2	0.05983	mg/L	0.003185	0.1197	mg/L	0.00637	5.32%
Na 330.237†	-11.0	-0.3709	mg/L	0.46307	-0.7419	mg/L	0.92614	124.84%
Ni 231.604†	36.4	0.02051	mg/L	0.001526	0.04101	mg/L	0.003051	7.44%
Pb 220.353†	77.8	0.01022	mg/L	0.000856	0.02045	mg/L	0.001712	8.37%
Sb 206.836†	51.5	0.05300	mg/L	0.002191	0.1060	mg/L	0.00438	4.13%
Se 196.026†	60.9	0.05371	mg/L	0.004032	0.1074	mg/L	0.00806	7.51%
Si 288.158†	57.0	0.04084	mg/L	0.002767	0.08169	mg/L	0.005534	6.77%
Sn 189.927†	33.6	0.00908	mg/L	0.000758	0.01815	mg/L	0.001517	8.35%
Sr 421.552†	501.9	0.00077	mg/L	0.000096	0.00154	mg/L	0.000192	12.50%
Ti 334.903†	247.9	0.01032	mg/L	0.000414	0.02065	mg/L	0.000829	4.01%
Tl 190.801†	52.8	0.05302	mg/L	0.002480	0.1060	mg/L	0.00496	4.68%
V 292.402†	224.8	0.00093	mg/L	0.000055	0.00186	mg/L	0.000110	5.92%
Zn 206.200†	7.3	0.00840	mg/L	0.001264	0.01679	mg/L	0.002528	15.05%

Sequence No.: 19
Sample ID: JQ43 F SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 37
Date Collected: 8/1/2006 1:46:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ43 F SWC

Analyte	Back Pressure	Flow
All	191.0 kPa	0.50 L/min

Mean Data: JQ43 F SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1553274.2	101.1	%	0.30				0.30%
ScR 361.383	186148.1	102.2	%	0.50				0.49%
Ag 328.068†	510.9	0.00183	mg/L	0.000340	0.00366	mg/L	0.000680	18.59%
Al 308.215†	66.6	0.04979	mg/L	0.013818	0.09959	mg/L	0.027635	27.75%
As 188.979†	38.7	0.04726	mg/L	0.004033	0.09452	mg/L	0.008067	8.53%
B 249.677†	31.8	0.01008	mg/L	0.000736	0.02016	mg/L	0.001472	7.30%
Ba 233.527†	9.2	0.00318	mg/L	0.001534	0.00636	mg/L	0.003068	48.21%
Be 313.042†	568.5	0.00093	mg/L	0.000039	0.00186	mg/L	0.000078	4.18%
Ca 317.933†	1115.8	0.06337	mg/L	0.000727	0.1267	mg/L	0.00145	1.15%
Cd 228.802†	56.5	0.00193	mg/L	0.000128	0.00385	mg/L	0.000256	6.66%
Co 228.616†	66.2	0.00207	mg/L	0.000193	0.00413	mg/L	0.000385	9.33%
Cr 267.716†	19.5	0.00262	mg/L	0.000346	0.00523	mg/L	0.000693	13.24%
Cu 324.752†	1028.9	0.00409	mg/L	0.000066	0.00819	mg/L	0.000132	1.61%
Fe 273.955†	7.4	0.00808	mg/L	0.001221	0.01615	mg/L	0.002443	15.12%
K 766.490†	1806.9	1.526	mg/L	0.0395	3.052	mg/L	0.0790	2.59%
Mg 279.077†	44.3	0.03379	mg/L	0.004521	0.06758	mg/L	0.009043	13.38%
Mn 257.610†	28.5	0.00104	mg/L	0.000035	0.00209	mg/L	0.000070	3.37%
Mo 202.031†	45.6	0.00497	mg/L	0.000400	0.00994	mg/L	0.000801	8.05%
Na 589.592†	343.4	0.05626	mg/L	0.002634	0.1125	mg/L	0.00527	4.68%
Na 330.237†	-7.8	-0.2633	mg/L	0.30621	-0.5266	mg/L	0.61242	116.30%
Ni 231.604†	40.1	0.02254	mg/L	0.000255	0.04507	mg/L	0.000509	1.13%
Pb 220.353†	75.3	0.00990	mg/L	0.001021	0.01980	mg/L	0.002043	10.32%
Sb 206.836†	49.6	0.05105	mg/L	0.001159	0.1021	mg/L	0.00232	2.27%
Se 196.026†	57.5	0.05070	mg/L	0.000386	0.1014	mg/L	0.00077	0.76%
Si 288.158†	57.6	0.04128	mg/L	0.003894	0.08256	mg/L	0.007788	9.43%
Sn 189.927†	35.1	0.00946	mg/L	0.001152	0.01893	mg/L	0.002303	12.17%
Sr 421.552†	469.6	0.00072	mg/L	0.000096	0.00144	mg/L	0.000191	13.32%
Ti 334.903†	224.9	0.00937	mg/L	0.000481	0.01873	mg/L	0.000962	5.14%
Tl 190.801†	53.5	0.05372	mg/L	0.001935	0.1074	mg/L	0.00387	3.60%
V 292.402†	251.2	0.00103	mg/L	0.000094	0.00206	mg/L	0.000188	9.17%
Zn 206.200†	7.7	0.00887	mg/L	0.001386	0.01774	mg/L	0.002771	15.62%

Sequence No.: 20
Sample ID: JQ43 G SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 38
Date Collected: 8/1/2006 1:53:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ43 G SWC

Analyte	Back Pressure	Flow
All	190.0 kPa	0.50 L/min

Mean Data: JQ43 G SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1569614.7	102.2	%	1.00				0.98%
ScR 361.383	186480.5	102.4	%	0.50				0.49%
Ag 328.068†	611.9	0.00219	mg/L	0.000164	0.00438	mg/L	0.000329	7.49%
Al 308.215†	80.9	0.06048	mg/L	0.007027	0.1210	mg/L	0.01405	11.62%
As 188.979†	38.5	0.04692	mg/L	0.005663	0.09384	mg/L	0.011327	12.07%
B 249.677†	36.3	0.01152	mg/L	0.000308	0.02304	mg/L	0.000615	2.67%
Ba 233.527†	7.5	0.00260	mg/L	0.000763	0.00519	mg/L	0.001526	29.40%
Be 313.042†	597.3	0.00098	mg/L	0.000064	0.00195	mg/L	0.000128	6.56%
Ca 317.933†	1356.6	0.07705	mg/L	0.000585	0.1541	mg/L	0.00117	0.76%
Cd 228.802†	54.4	0.00185	mg/L	0.000109	0.00370	mg/L	0.000219	5.91%
Co 228.616†	67.1	0.00209	mg/L	0.000197	0.00418	mg/L	0.000395	9.45%
Cr 267.716†	27.9	0.00375	mg/L	0.001036	0.00749	mg/L	0.002072	27.65%
Cu 324.752†	1038.9	0.00413	mg/L	0.000239	0.00827	mg/L	0.000478	5.78%
Fe 273.955†	9.1	0.00995	mg/L	0.001228	0.01990	mg/L	0.002456	12.34%
K 766.490†	1802.1	1.522	mg/L	0.0616	3.044	mg/L	0.1232	4.05%
Mg 279.077†	51.7	0.03946	mg/L	0.002096	0.07892	mg/L	0.004192	5.31%
Mn 257.610†	27.2	0.00099	mg/L	0.000110	0.00199	mg/L	0.000220	11.07%
Mo 202.031†	41.2	0.00449	mg/L	0.000159	0.00898	mg/L	0.000318	3.54%
Na 589.592†	325.8	0.05338	mg/L	0.005210	0.1068	mg/L	0.01042	9.76%
Na 330.237†	0.7	0.02233	mg/L	0.241050	0.04465	mg/L	0.482100	>999.9%
Ni 231.604†	39.6	0.02228	mg/L	0.002309	0.04456	mg/L	0.004619	10.37%
Pb 220.353†	75.3	0.00990	mg/L	0.000324	0.01980	mg/L	0.000647	3.27%
Sb 206.836†	48.5	0.04985	mg/L	0.002154	0.09970	mg/L	0.004309	4.32%
Se 196.026†	61.4	0.05414	mg/L	0.003725	0.1083	mg/L	0.00745	6.88%
Si 288.158†	50.2	0.03595	mg/L	0.002204	0.07190	mg/L	0.004407	6.13%
Sn 189.927†	35.4	0.00954	mg/L	0.000737	0.01907	mg/L	0.001474	7.73%
Sr 421.552†	523.7	0.00080	mg/L	0.000047	0.00160	mg/L	0.000094	5.90%
Ti 334.903†	254.4	0.01059	mg/L	0.000954	0.02119	mg/L	0.001907	9.00%
Tl 190.801†	53.1	0.05329	mg/L	0.003335	0.1066	mg/L	0.00667	6.26%
V 292.402†	224.0	0.00093	mg/L	0.000072	0.00185	mg/L	0.000143	7.73%
Zn 206.200†	13.1	0.01502	mg/L	0.000909	0.03005	mg/L	0.001818	6.05%

Sequence No.: 21
Sample ID: JQ43 H SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 39
Date Collected: 8/1/2006 1:59:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ43 H SWC

Analyte	Back Pressure	Flow
All	191.0 kPa	0.50 L/min

Mean Data: JQ43 H SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1572611.7	102.4	%	0.60				0.59%
ScR 361.383	188948.2	103.7	%	0.53				0.51%
Ag 328.068†	515.8	0.00185	mg/L	0.000031	0.00370	mg/L	0.000062	1.68%
Al 308.215†	67.6	0.05053	mg/L	0.003457	0.1011	mg/L	0.00691	6.84%
As 188.979†	39.3	0.04796	mg/L	0.004928	0.09593	mg/L	0.009855	10.27%
B 249.677†	32.0	0.01014	mg/L	0.001871	0.02028	mg/L	0.003742	18.45%
Ba 233.527†	6.0	0.00207	mg/L	0.001827	0.00414	mg/L	0.003655	88.35%
Be 313.042†	609.8	0.00100	mg/L	0.000025	0.00199	mg/L	0.000051	2.54%
Ca 317.933†	1160.6	0.06592	mg/L	0.001533	0.1318	mg/L	0.00307	2.32%
Cd 228.802†	56.7	0.00193	mg/L	0.000109	0.00386	mg/L	0.000217	5.62%
Co 228.616†	66.9	0.00209	mg/L	0.000047	0.00417	mg/L	0.000094	2.25%
Cr 267.716†	25.2	0.00338	mg/L	0.000915	0.00676	mg/L	0.001830	27.05%
Cu 324.752†	1075.4	0.00428	mg/L	0.000090	0.00856	mg/L	0.000180	2.10%
Fe 273.955†	10.9	0.01185	mg/L	0.002086	0.02369	mg/L	0.004172	17.61%
K 766.490†	1785.3	1.508	mg/L	0.0548	3.016	mg/L	0.1097	3.64%
Mg 279.077†	58.4	0.04455	mg/L	0.011835	0.08911	mg/L	0.023669	26.56%
Mn 257.610†	24.1	0.00088	mg/L	0.000171	0.00176	mg/L	0.000343	19.44%
Mo 202.031†	42.0	0.00457	mg/L	0.000272	0.00914	mg/L	0.000544	5.95%
Na 589.592†	376.4	0.06166	mg/L	0.002799	0.1233	mg/L	0.00560	4.54%
Na 330.237†	-10.2	-0.3443	mg/L	0.56562	-0.6886	mg/L	1.13124	164.28%
Ni 231.604†	42.7	0.02402	mg/L	0.001978	0.04803	mg/L	0.003957	8.24%
Pb 220.353†	69.2	0.00910	mg/L	0.000583	0.01820	mg/L	0.001166	6.41%
Sb 206.836†	49.9	0.05130	mg/L	0.004697	0.1026	mg/L	0.00939	9.16%
Se 196.026†	54.9	0.04838	mg/L	0.001107	0.09677	mg/L	0.002214	2.29%
Si 288.158†	47.8	0.03426	mg/L	0.006303	0.06852	mg/L	0.012607	18.40%
Sn 189.927†	34.9	0.00942	mg/L	0.001111	0.01884	mg/L	0.002222	11.79%
Sr 421.552†	472.8	0.00072	mg/L	0.000028	0.00145	mg/L	0.000056	3.87%
Ti 334.903†	245.9	0.01024	mg/L	0.000285	0.02048	mg/L	0.000570	2.78%
Tl 190.801†	52.8	0.05299	mg/L	0.006052	0.1060	mg/L	0.01210	11.42%
V 292.402†	258.6	0.00106	mg/L	0.000072	0.00212	mg/L	0.000144	6.80%
Zn 206.200†	9.5	0.01097	mg/L	0.002920	0.02193	mg/L	0.005840	26.63%

Sequence No.: 22
Sample ID: JQ43 I SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 40
Date Collected: 8/1/2006 2:05:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ43 I SWC

Analyte	Back Pressure	Flow
All	191.0 kPa	0.50 L/min

Mean Data: JQ43 I SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1571077.4	102.3	%	0.21				0.21%
ScR 361.383	189743.3	104.2	%	0.90				0.86%
Ag 328.068†	548.4	0.00196	mg/L	0.000022	0.00393	mg/L	0.000043	1.10%
Al 308.215†	75.8	0.05667	mg/L	0.018422	0.1133	mg/L	0.03684	32.51%
As 188.979†	38.1	0.04641	mg/L	0.002016	0.09282	mg/L	0.004032	4.34%
B 249.677†	34.3	0.01086	mg/L	0.000269	0.02171	mg/L	0.000537	2.47%
Ba 233.527†	6.7	0.00230	mg/L	0.000935	0.00461	mg/L	0.001871	40.60%
Be 313.042†	615.3	0.00100	mg/L	0.000044	0.00201	mg/L	0.000089	4.41%
Ca 317.933†	1310.0	0.07440	mg/L	0.000902	0.1488	mg/L	0.00180	1.21%
Cd 228.802†	54.4	0.00185	mg/L	0.000028	0.00371	mg/L	0.000056	1.50%
Co 228.616†	69.9	0.00218	mg/L	0.000093	0.00436	mg/L	0.000185	4.25%
Cr 267.716†	25.0	0.00336	mg/L	0.000340	0.00673	mg/L	0.000680	10.11%
Cu 324.752†	1064.4	0.00423	mg/L	0.000101	0.00847	mg/L	0.000201	2.38%
Fe 273.955†	11.3	0.01231	mg/L	0.001299	0.02462	mg/L	0.002598	10.55%
K 766.490†	1786.7	1.509	mg/L	0.0333	3.018	mg/L	0.0665	2.20%
Mg 279.077†	53.4	0.04075	mg/L	0.011174	0.08150	mg/L	0.022348	27.42%
Mn 257.610†	31.4	0.00115	mg/L	0.000090	0.00230	mg/L	0.000181	7.86%
Mo 202.031†	47.5	0.00517	mg/L	0.000207	0.01035	mg/L	0.000414	4.00%
Na 589.592†	390.9	0.06405	mg/L	0.001139	0.1281	mg/L	0.00228	1.78%
Na 330.237†	-9.2	-0.3122	mg/L	0.59377	-0.6243	mg/L	1.18754	190.22%
Ni 231.604†	43.1	0.02426	mg/L	0.000643	0.04852	mg/L	0.001286	2.65%
Pb 220.353†	69.2	0.00910	mg/L	0.000130	0.01819	mg/L	0.000259	1.42%
Sb 206.836†	51.7	0.05321	mg/L	0.003944	0.1064	mg/L	0.00789	7.41%
Se 196.026†	61.8	0.05446	mg/L	0.004597	0.1089	mg/L	0.00919	8.44%
Si 288.158†	54.3	0.03887	mg/L	0.005796	0.07775	mg/L	0.011591	14.91%
Sn 189.927†	31.1	0.00842	mg/L	0.000492	0.01683	mg/L	0.000984	5.85%
Sr 421.552†	449.1	0.00069	mg/L	0.000086	0.00137	mg/L	0.000172	12.52%
Ti 334.903†	251.1	0.01046	mg/L	0.000460	0.02091	mg/L	0.000919	4.40%
Tl 190.801†	52.4	0.05262	mg/L	0.001706	0.1052	mg/L	0.00341	3.24%
V 292.402†	235.7	0.00097	mg/L	0.000150	0.00194	mg/L	0.000300	15.45%
Zn 206.200†	10.7	0.01236	mg/L	0.000421	0.02472	mg/L	0.000841	3.40%

Sequence No.: 23
Sample ID: CV4
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/1/2006 2:12:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	191.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1520970.9	99.02	%	0.241				0.24%
ScR 361.383	187473.6	102.9	%	0.86				0.84%
Ag 328.068†	273190.2	0.9789	mg/L	0.00797	0.9789	mg/L	0.00797	0.81%
Al 308.215†	2638.6	1.940	mg/L	0.0131	1.940	mg/L	0.0131	0.68%
As 188.979†	1629.4	1.985	mg/L	0.0114	1.985	mg/L	0.0114	0.57%
B 249.677†	2993.4	0.9507	mg/L	0.00660	0.9507	mg/L	0.00660	0.69%
Ba 233.527†	2770.9	0.9551	mg/L	0.00718	0.9551	mg/L	0.00718	0.75%
Be 313.042†	599649.2	0.9794	mg/L	0.00204	0.9794	mg/L	0.00204	0.21%
Ca 317.933†	35970.1	2.043	mg/L	0.0075	2.043	mg/L	0.0075	0.37%
Cd 228.802†	28868.1	1.012	mg/L	0.0084	1.012	mg/L	0.0084	0.83%
Co 228.616†	31327.8	0.9825	mg/L	0.00955	0.9825	mg/L	0.00955	0.97%
Cr 267.716†	6942.4	0.9341	mg/L	0.00865	0.9341	mg/L	0.00865	0.93%
Cu 324.752†	256512.3	1.021	mg/L	0.0088	1.021	mg/L	0.0088	0.86%
Fe 273.955†	1838.6	2.006	mg/L	0.0178	2.006	mg/L	0.0178	0.89%
K 766.490†	23298.6	19.68	mg/L	0.085	19.68	mg/L	0.085	0.43%
Mg 279.077†	2640.0	2.018	mg/L	0.0230	2.018	mg/L	0.0230	1.14%
Mn 257.610†	25826.0	0.9440	mg/L	0.00611	0.9440	mg/L	0.00611	0.65%
Mo 202.031†	9259.5	1.009	mg/L	0.0111	1.009	mg/L	0.0111	1.10%
Na 589.592†	302900.5	49.62	mg/L	0.230	49.62	mg/L	0.230	0.46%
Na 330.237†	1483.6	49.90	mg/L	0.489	49.90	mg/L	0.489	0.98%
Ni 231.604†	1761.6	0.9907	mg/L	0.01026	0.9907	mg/L	0.01026	1.04%
Pb 220.353†	15198.8	1.996	mg/L	0.0250	1.996	mg/L	0.0250	1.25%
Sb 206.836†	1857.9	1.910	mg/L	0.0077	1.910	mg/L	0.0077	0.40%
Se 196.026†	2275.9	2.006	mg/L	0.0229	2.006	mg/L	0.0229	1.14%
Si 288.158†	2775.3	1.989	mg/L	0.0167	1.989	mg/L	0.0167	0.84%
Sn 189.927†	3558.0	0.9528	mg/L	0.00502	0.9528	mg/L	0.00502	0.53%
Sr 421.552†	636348.4	0.9733	mg/L	0.00458	0.9733	mg/L	0.00458	0.47%
Ti 334.903†	23874.5	0.9937	mg/L	0.00406	0.9937	mg/L	0.00406	0.41%
Tl 190.801†	1965.5	1.970	mg/L	0.0115	1.970	mg/L	0.0115	0.59%
V 292.402†	244084.5	0.9880	mg/L	0.00914	0.9880	mg/L	0.00914	0.92%
Zn 206.200†	878.6	1.010	mg/L	0.0120	1.010	mg/L	0.0120	1.18%

Sequence No.: 24
Sample ID: CB4
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/1/2006 2:18:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	191.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1551581.9	101.0	%	0.69				0.68%
ScR 361.383	185049.2	101.6	%	0.40				0.40%
Ag 328.068†	10.3	0.00004	mg/L	0.000308	0.00004	mg/L	0.000308	838.87%
Al 308.215†	10.9	0.00814	mg/L	0.017323	0.00814	mg/L	0.017323	212.85%
As 188.979†	0.7	0.00082	mg/L	0.002778	0.00082	mg/L	0.002778	340.57%
B 249.677†	12.3	0.00390	mg/L	0.000316	0.00390	mg/L	0.000316	8.11%
Ba 233.527†	1.7	0.00059	mg/L	0.000499	0.00059	mg/L	0.000499	85.07%
Be 313.042†	1.3	0.00000	mg/L	0.000043	0.00000	mg/L	0.000043	>999.9%
Ca 317.933†	8.6	0.00049	mg/L	0.002252	0.00049	mg/L	0.002252	459.98%
Cd 228.802†	-5.3	-0.00019	mg/L	0.000242	-0.00019	mg/L	0.000242	130.49%
Co 228.616†	3.6	0.00011	mg/L	0.000133	0.00011	mg/L	0.000133	118.24%
Cr 267.716†	-4.6	-0.00061	mg/L	0.001125	-0.00061	mg/L	0.001125	183.49%
Cu 324.752†	36.3	0.00014	mg/L	0.000110	0.00014	mg/L	0.000110	76.43%
Fe 273.955†	-3.0	-0.00324	mg/L	0.002314	-0.00324	mg/L	0.002314	71.54%
K 766.490†	15.8	0.01333	mg/L	0.044064	0.01333	mg/L	0.044064	330.64%
Mg 279.077†	-10.3	-0.00788	mg/L	0.004903	-0.00788	mg/L	0.004903	62.19%
Mn 257.610†	0.8	0.00003	mg/L	0.000173	0.00003	mg/L	0.000173	604.49%
Mo 202.031†	2.3	0.00025	mg/L	0.000318	0.00025	mg/L	0.000318	127.06%
Na 589.592†	60.1	0.00984	mg/L	0.002362	0.00984	mg/L	0.002362	24.00%
Na 330.237†	-20.0	-0.6741	mg/L	0.40569	-0.6741	mg/L	0.40569	60.18%
Ni 231.604†	4.6	0.00257	mg/L	0.001756	0.00257	mg/L	0.001756	68.32%
Pb 220.353†	2.4	0.00032	mg/L	0.000125	0.00032	mg/L	0.000125	39.62%
Sb 206.836†	5.0	0.00511	mg/L	0.001474	0.00511	mg/L	0.001474	28.84%
Se 196.026†	1.7	0.00147	mg/L	0.003930	0.00147	mg/L	0.003930	267.88%
Si 288.158†	1.9	0.00133	mg/L	0.004265	0.00133	mg/L	0.004265	321.65%
Sn 189.927†	3.0	0.00082	mg/L	0.000136	0.00082	mg/L	0.000136	16.66%
Sr 421.552†	3.6	0.00001	mg/L	0.000009	0.00001	mg/L	0.000009	154.98%
Ti 334.903†	0.5	0.00002	mg/L	0.000284	0.00002	mg/L	0.000284	>999.9%
Tl 190.801†	1.1	0.00115	mg/L	0.003643	0.00115	mg/L	0.003643	316.18%
V 292.402†	19.2	0.00007	mg/L	0.000057	0.00007	mg/L	0.000057	78.75%
Zn 206.200†	1.9	0.00218	mg/L	0.003020	0.00218	mg/L	0.003020	138.37%

Analysis Begun

Start Time: 8/1/2006 2:23:52 PM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Plasma On Time: 8/1/2006 8:42:58 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0801A.sif
Batch ID:
Results Data Set: PE060801
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: JQ35 MB1 SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X
Autosampler Location: 21
Date Collected: 8/1/2006 2:23:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 MB1 SWC

Analyte	Back Pressure	Flow
All	191.0 kPa	0.50 L/min

Mean Data: JQ35 MB1 SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
ScA 357.253	1563872.4	101.8	%	0.92				0.91%
ScR 361.383	188911.4	103.7	%	0.81				0.78%
Ag 328.068†	19.2	0.00007	mg/L	0.000171	0.00014	mg/L	0.000341	246.25%
Al 308.215†	51.3	0.03845	mg/L	0.006180	0.07691	mg/L	0.012361	16.07%
As 188.979†	0.6	0.00069	mg/L	0.003466	0.00138	mg/L	0.006933	502.48%
B 249.677†	10.8	0.00342	mg/L	0.003117	0.00684	mg/L	0.006235	91.15%
Ba 233.527†	-2.1	-0.00071	mg/L	0.000399	-0.00142	mg/L	0.000799	56.22%
Be 313.042†	-8.7	-0.00001	mg/L	0.000015	-0.00003	mg/L	0.000030	105.64%
Ca 317.933†	871.5	0.04950	mg/L	0.000616	0.09900	mg/L	0.001232	1.24%
Cd 228.802†	-8.5	-0.00030	mg/L	0.000052	-0.00060	mg/L	0.000105	17.55%
Co 228.616†	2.1	0.00006	mg/L	0.000067	0.00013	mg/L	0.000135	103.90%
Cr 267.716†	-10.3	-0.00139	mg/L	0.000567	-0.00278	mg/L	0.001133	40.79%
Cu 324.752†	12.5	0.00005	mg/L	0.000125	0.00010	mg/L	0.000251	248.59%
Fe 273.955†	8.3	0.00902	mg/L	0.002880	0.01805	mg/L	0.005760	31.91%
K 766.490†	-32.4	-0.02739	mg/L	0.030994	-0.05478	mg/L	0.061988	113.17%
Mg 279.077†	1.0	0.00072	mg/L	0.009700	0.00144	mg/L	0.019400	>999.9%
Mn 257.610†	4.0	0.00015	mg/L	0.000195	0.00029	mg/L	0.000390	132.96%
Mo 202.031†	-2.0	-0.00022	mg/L	0.000285	-0.00044	mg/L	0.000570	128.65%
Na 589.592†	54.0	0.00885	mg/L	0.004367	0.01770	mg/L	0.008734	49.33%
Na 330.237†	-5.1	-0.1751	mg/L	0.10174	-0.3503	mg/L	0.20349	58.09%
Ni 231.604†	6.0	0.00339	mg/L	0.000547	0.00677	mg/L	0.001094	16.15%
Pb 220.353†	-3.9	-0.00050	mg/L	0.000628	-0.00101	mg/L	0.001255	124.76%
Sb 206.836†	1.6	0.00167	mg/L	0.001802	0.00334	mg/L	0.003605	108.04%
Se 196.026†	5.7	0.00501	mg/L	0.003454	0.01001	mg/L	0.006908	68.99%
Si 288.158†	6.6	0.00471	mg/L	0.002177	0.00942	mg/L	0.004354	46.23%
Sn 189.927†	2.1	0.00057	mg/L	0.000347	0.00114	mg/L	0.000695	61.18%
Sr 421.552†	200.0	0.00031	mg/L	0.000050	0.00061	mg/L	0.000101	16.50%
Ti 334.903†	20.1	0.00084	mg/L	0.000297	0.00168	mg/L	0.000595	35.44%
Tl 190.801†	0.8	0.00081	mg/L	0.003094	0.00162	mg/L	0.006188	381.71%
V 292.402†	8.8	0.00002	mg/L	0.000099	0.00005	mg/L	0.000197	397.48%
Zn 206.200†	5.7	0.00657	mg/L	0.002417	0.01314	mg/L	0.004834	36.80%

Sequence No.: 2
Sample ID: JQ35 B SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 22
Date Collected: 8/1/2006 2:30:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 B SWC

Analyte	Back Pressure	Flow
All	192.0 kPa	0.50 L/min

Mean Data: JQ35 B SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1600887.4	104.2	%	0.92				0.88%
ScR 361.383	195899.5	107.6	%	0.81				0.76%
Ag 328.068†	-369.7	0.00732	mg/L	0.000064	0.01463	mg/L	0.000127	0.87%
Al 308.215†	232980.7	174.5	mg/L	0.56	349.1	mg/L	1.12	0.32%
As 188.979†	111.4	0.09381	mg/L	0.002254	0.1876	mg/L	0.00451	2.40%
B 249.677†	46.7	0.01206	mg/L	0.000869	0.02412	mg/L	0.001739	7.21%
Ba 233.527†	2405.6	0.8138	mg/L	0.00535	1.628	mg/L	0.0107	0.66%
Be 313.042†	2136.4	0.00264	mg/L	0.000047	0.00528	mg/L	0.000094	1.78%
Ca 317.933†	699917.3	39.75	mg/L	0.122	79.51	mg/L	0.244	0.31%
Cd 228.802†	587.8	0.01826	mg/L	0.000196	0.03653	mg/L	0.000392	1.07%
Co 228.616†	3470.0	0.09089	mg/L	0.001197	0.1818	mg/L	0.00239	1.32%
Cr 267.716†	1423.8	0.2019	mg/L	0.00148	0.4037	mg/L	0.00295	0.73%
Cu 324.752†	143246.8	0.5887	mg/L	0.00375	1.177	mg/L	0.0075	0.64%
Fe 273.955†	197899.9	216.1	mg/L	1.61	432.3	mg/L	3.22	0.74%
K 766.490†	6981.1	5.896	mg/L	0.0487	11.79	mg/L	0.097	0.83%
Mg 279.077†	46937.0	35.65	mg/L	0.075	71.29	mg/L	0.150	0.21%
Mn 257.610†	86058.5	3.143	mg/L	0.0164	6.286	mg/L	0.0328	0.52%
Mo 202.031†	27.3	0.00600	mg/L	0.000173	0.01199	mg/L	0.000346	2.88%
Na 589.592†	36130.1	5.919	mg/L	0.0197	11.84	mg/L	0.039	0.33%
Na 330.237†	134.5	5.530	mg/L	0.2491	11.06	mg/L	0.498	4.50%
Ni 231.604†	315.5	0.1773	mg/L	0.00226	0.3545	mg/L	0.00453	1.28%
Pb 220.353†	21821.0	2.897	mg/L	0.0189	5.794	mg/L	0.0377	0.65%
Sb 206.836†	20.9	0.02821	mg/L	0.002487	0.05642	mg/L	0.004974	8.82%
Se 196.026†	-76.0	-0.07060	mg/L	0.007285	-0.1412	mg/L	0.01457	10.32%
Si 288.158†	2715.7	1.945	mg/L	0.0103	3.890	mg/L	0.0206	0.53%
Sn 189.927†	-17.4	-0.00017	mg/L	0.000345	-0.00033	mg/L	0.000690	207.86%
Sr 421.552†	339162.1	0.5187	mg/L	0.00173	1.037	mg/L	0.0035	0.33%
Ti 334.903†	219505.0	9.147	mg/L	0.0319	18.29	mg/L	0.064	0.35%
Tl 190.801†	-14.8	-0.02452	mg/L	0.004305	-0.04905	mg/L	0.008610	17.55%
V 292.402†	135755.6	0.5432	mg/L	0.00345	1.086	mg/L	0.0069	0.63%
Zn 206.200†	3220.6	3.701	mg/L	0.0249	7.402	mg/L	0.0498	0.67%

Sequence No.: 3
Sample ID: JQ35 C SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 23
Date Collected: 8/1/2006 2:37:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 C SWC

Analyte	Back Pressure	Flow
All	193.0 kPa	0.50 L/min

Mean Data: JQ35 C SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1561779.6	101.7	%	0.44				0.43%
ScR 361.383	190581.1	104.6	%	0.12				0.11%
Ag 328.068†	-49.6	0.00770	mg/L	0.000192	0.01539	mg/L	0.000384	2.49%
Al 308.215†	198418.8	148.7	mg/L	0.07	297.3	mg/L	0.14	0.05%
As 188.979†	92.9	0.07536	mg/L	0.004786	0.1507	mg/L	0.00957	6.35%
B 249.677†	37.3	0.00919	mg/L	0.001243	0.01837	mg/L	0.002486	13.53%
Ba 233.527†	2197.6	0.7434	mg/L	0.00469	1.487	mg/L	0.0094	0.63%
Be 313.042†	1932.9	0.00237	mg/L	0.000040	0.00474	mg/L	0.000080	1.68%
Ca 317.933†	621726.0	35.31	mg/L	0.007	70.62	mg/L	0.015	0.02%
Cd 228.802†	610.3	0.01928	mg/L	0.000070	0.03856	mg/L	0.000139	0.36%
Co 228.616†	3390.7	0.08939	mg/L	0.000325	0.1788	mg/L	0.00065	0.36%
Cr 267.716†	1241.2	0.1764	mg/L	0.00029	0.3528	mg/L	0.00058	0.16%
Cu 324.752†	117849.5	0.4859	mg/L	0.00432	0.9719	mg/L	0.00863	0.89%
Fe 273.955†	180634.0	197.3	mg/L	0.97	394.5	mg/L	1.94	0.49%
K 766.490†	6025.2	5.089	mg/L	0.0332	10.18	mg/L	0.066	0.65%
Mg 279.077†	42024.2	31.91	mg/L	0.018	63.83	mg/L	0.037	0.06%
Mn 257.610†	81373.2	2.972	mg/L	0.0075	5.944	mg/L	0.0151	0.25%
Mo 202.031†	41.0	0.00700	mg/L	0.000255	0.01400	mg/L	0.000509	3.64%
Na 589.592†	29174.9	4.779	mg/L	0.0145	9.559	mg/L	0.0290	0.30%
Na 330.237†	103.7	4.453	mg/L	0.2220	8.906	mg/L	0.4439	4.98%
Ni 231.604†	308.9	0.1736	mg/L	0.00219	0.3471	mg/L	0.00439	1.26%
Pb 220.353†	20596.7	2.731	mg/L	0.0356	5.463	mg/L	0.0711	1.30%
Sb 206.836†	18.8	0.02580	mg/L	0.002188	0.05159	mg/L	0.004377	8.48%
Se 196.026†	-69.0	-0.06425	mg/L	0.006481	-0.1285	mg/L	0.01296	10.09%
Si 288.158†	2540.6	1.820	mg/L	0.0111	3.639	mg/L	0.0222	0.61%
Sn 189.927†	-12.3	0.00060	mg/L	0.000695	0.00120	mg/L	0.001389	115.96%
Sr 421.552†	301528.9	0.4612	mg/L	0.00085	0.9223	mg/L	0.00169	0.18%
Ti 334.903†	206019.1	8.585	mg/L	0.0114	17.17	mg/L	0.023	0.13%
Tl 190.801†	-16.4	-0.02551	mg/L	0.002929	-0.05102	mg/L	0.005858	11.48%
V 292.402†	125814.2	0.5033	mg/L	0.00558	1.007	mg/L	0.0112	1.11%
Zn 206.200†	3011.1	3.460	mg/L	0.0190	6.921	mg/L	0.0379	0.55%

Sequence No.: 4
Sample ID: JQ35 D SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

rerun5x

Autosampler Location: 24
Date Collected: 8/1/2006 2:43:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 D SWC

Analyte	Back Pressure	Flow
All	193.0 kPa	0.50 L/min

Mean Data: JQ35 D SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1609567.4	104.8	%	0.22				0.21%
ScR 361.383	199153.8	109.4	%	0.33				0.30%
Ag 328.068†	-1519.7	0.00757	mg/L	0.000347	0.01514	mg/L	0.000693	4.58%
Al 308.215†	245997.0	184.3	mg/L	0.13	368.6	mg/L	0.26	0.07%
As 188.979†	101.4	0.08149	mg/L	0.003810	0.1630	mg/L	0.00762	4.68%
B 249.677†	34.2	0.00836	mg/L	0.001765	0.01672	mg/L	0.003530	21.11%
Ba 233.527†	2498.1	0.8379	mg/L	0.00370	1.676	mg/L	0.0074	0.44%
Be 313.042†	2237.8	0.00272	mg/L	0.000031	0.00544	mg/L	0.000062	1.15%
Ca 317.933†	686803.7	39.01	mg/L	0.046	78.02	mg/L	0.093	0.12%
Cd 228.802†	617.7	0.01825	mg/L	0.000261	0.03650	mg/L	0.000523	1.43%
Co 228.616†	3518.5	0.09058	mg/L	0.000216	0.1812	mg/L	0.00043	0.24%
Cr 267.716†	1780.4	0.2585	mg/L	0.00035	0.5169	mg/L	0.00070	0.14%
Cu 324.752†	121575.2	0.5126	mg/L	0.00088	1.025	mg/L	0.0018	0.17%
Fe 273.955†	296216.5	323.5	mg/L	1.00	647.0	mg/L	2.01	0.31%
K 766.490†	6633.0	5.602	mg/L	0.0280	11.20	mg/L	0.056	0.50%
Mg 279.077†	47822.6	36.24	mg/L	0.045	72.49	mg/L	0.089	0.12%
Mn 257.610†	104247.9	3.807	mg/L	0.0038	7.615	mg/L	0.0076	0.10%
Mo 202.031†	80.5	0.01198	mg/L	0.000369	0.02397	mg/L	0.000739	3.08%
Na 589.592†	30607.7	5.014	mg/L	0.0131	10.03	mg/L	0.026	0.26%
Na 330.237†	114.8	4.748	mg/L	0.3289	9.497	mg/L	0.6578	6.93%
Ni 231.604†	330.4	0.1856	mg/L	0.00067	0.3713	mg/L	0.00134	0.36%
Pb 220.353†	29837.1	3.951	mg/L	0.0015	7.902	mg/L	0.0031	0.04%
Sb 206.836†	27.4	0.03403	mg/L	0.004131	0.06807	mg/L	0.008262	12.14%
Se 196.026†	-94.5	-0.08763	mg/L	0.001775	-0.1753	mg/L	0.00355	2.03%
Si 288.158†	2598.8	1.862	mg/L	0.0135	3.723	mg/L	0.0271	0.73%
Sn 189.927†	-2.5	0.00379	mg/L	0.000700	0.00759	mg/L	0.001400	18.46%
Sr 421.552†	307994.6	0.4711	mg/L	0.00055	0.9421	mg/L	0.00110	0.12%
Ti 334.903†	212233.5	8.844	mg/L	0.0099	17.69	mg/L	0.020	0.11%
Tl 190.801†	-20.8	-0.03046	mg/L	0.003964	-0.06091	mg/L	0.007928	13.02%
V 292.402†	149568.7	0.5993	mg/L	0.00037	1.199	mg/L	0.0007	0.06%
Zn 206.200†	3395.4	3.899	mg/L	0.0040	7.798	mg/L	0.0080	0.10%

Sequence No.: 5
Sample ID: JQ35 E SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 25
Date Collected: 8/1/2006 2:50:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 E SWC

Analyte	Back Pressure	Flow
All	194.0 kPa	0.50 L/min

Mean Data: JQ35 E SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1605091.3	104.5	%	0.41				0.39%
ScR 361.383	196674.0	108.0	%	0.56				0.52%
Ag 328.068†	-867.6	0.00612	mg/L	0.000227	0.01224	mg/L	0.000454	3.71%
Al 308.215†	264741.2	198.3	mg/L	0.50	396.7	mg/L	1.00	0.25%
As 188.979†	82.7	0.05646	mg/L	0.001639	0.1129	mg/L	0.00328	2.90%
B 249.677†	46.2	0.01196	mg/L	0.002401	0.02392	mg/L	0.004801	20.07%
Ba 233.527†	2766.3	0.9369	mg/L	0.00116	1.874	mg/L	0.0023	0.12%
Be 313.042†	2382.6	0.00298	mg/L	0.000057	0.00597	mg/L	0.000113	1.90%
Ca 317.933†	716119.0	40.67	mg/L	0.091	81.35	mg/L	0.181	0.22%
Cd 228.802†	393.9	0.01132	mg/L	0.000154	0.02265	mg/L	0.000309	1.36%
Co 228.616†	3730.1	0.09880	mg/L	0.000771	0.1976	mg/L	0.00154	0.78%
Cr 267.716†	1679.5	0.2370	mg/L	0.00093	0.4739	mg/L	0.00185	0.39%
Cu 324.752†	102602.1	0.4284	mg/L	0.00098	0.8569	mg/L	0.00195	0.23%
Fe 273.955†	213631.3	233.3	mg/L	0.56	466.6	mg/L	1.12	0.24%
K 766.490†	7462.2	6.302	mg/L	0.0354	12.60	mg/L	0.071	0.56%
Mg 279.077†	49655.4	37.71	mg/L	0.043	75.42	mg/L	0.086	0.11%
Mn 257.610†	109768.3	4.008	mg/L	0.0112	8.017	mg/L	0.0224	0.28%
Mo 202.031†	29.2	0.00668	mg/L	0.000099	0.01335	mg/L	0.000197	1.48%
Na 589.592†	31924.3	5.230	mg/L	0.0223	10.46	mg/L	0.045	0.43%
Na 330.237†	106.1	4.898	mg/L	0.1637	9.796	mg/L	0.3275	3.34%
Ni 231.604†	361.8	0.2032	mg/L	0.00216	0.4065	mg/L	0.00432	1.06%
Pb 220.353†	11920.1	1.603	mg/L	0.0057	3.205	mg/L	0.0114	0.36%
Sb 206.836†	19.4	0.02631	mg/L	0.002681	0.05262	mg/L	0.005362	10.19%
Se 196.026†	-83.5	-0.07823	mg/L	0.002898	-0.1565	mg/L	0.00580	3.71%
Si 288.158†	2708.3	1.940	mg/L	0.0139	3.880	mg/L	0.0277	0.72%
Sn 189.927†	-9.4	0.00197	mg/L	0.001257	0.00394	mg/L	0.002514	63.85%
Sr 421.552†	340797.4	0.5212	mg/L	0.00129	1.042	mg/L	0.0026	0.25%
Ti 334.903†	222823.2	9.286	mg/L	0.0220	18.57	mg/L	0.044	0.24%
Tl 190.801†	-17.2	-0.02717	mg/L	0.005325	-0.05434	mg/L	0.010650	19.60%
V 292.402†	145143.5	0.5812	mg/L	0.00246	1.162	mg/L	0.0049	0.42%
Zn 206.200†	2195.8	2.521	mg/L	0.0023	5.042	mg/L	0.0047	0.09%

Sequence No.: 6
Sample ID: JQ35 F SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 26
Date Collected: 8/1/2006 2:57:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 F SWC

Analyte	Back Pressure	Flow
All	195.0 kPa	0.50 L/min

Mean Data: JQ35 F SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1601711.1	104.3	%	0.38				0.37%
ScR 361.383	196069.2	107.7	%	0.97				0.90%
Ag 328.068†	-806.0	0.00581	mg/L	0.000289	0.01162	mg/L	0.000578	4.98%
Al 308.215†	236416.3	177.1	mg/L	0.39	354.2	mg/L	0.77	0.22%
As 188.979†	90.0	0.06814	mg/L	0.002273	0.1363	mg/L	0.00455	3.34%
B 249.677†	40.5	0.01021	mg/L	0.002572	0.02043	mg/L	0.005144	25.18%
Ba 233.527†	2522.7	0.8540	mg/L	0.00840	1.708	mg/L	0.0168	0.98%
Be 313.042†	2130.8	0.00260	mg/L	0.000019	0.00519	mg/L	0.000038	0.73%
Ca 317.933†	691863.6	39.30	mg/L	0.032	78.59	mg/L	0.065	0.08%
Cd 228.802†	528.3	0.01618	mg/L	0.000064	0.03236	mg/L	0.000129	0.40%
Co 228.616†	3487.4	0.09177	mg/L	0.000474	0.1835	mg/L	0.00095	0.52%
Cr 267.716†	1583.9	0.2235	mg/L	0.00194	0.4470	mg/L	0.00388	0.87%
Cu 324.752†	91625.7	0.3834	mg/L	0.00060	0.7668	mg/L	0.00120	0.16%
Fe 273.955†	200112.5	218.5	mg/L	0.17	437.1	mg/L	0.33	0.08%
K 766.490†	6619.9	5.591	mg/L	0.0667	11.18	mg/L	0.133	1.19%
Mg 279.077†	46578.2	35.37	mg/L	0.004	70.74	mg/L	0.008	0.01%
Mn 257.610†	94858.7	3.464	mg/L	0.0054	6.928	mg/L	0.0107	0.15%
Mo 202.031†	23.2	0.00561	mg/L	0.000265	0.01122	mg/L	0.000531	4.73%
Na 589.592†	30469.6	4.992	mg/L	0.0160	9.983	mg/L	0.0319	0.32%
Na 330.237†	106.7	4.650	mg/L	0.2151	9.301	mg/L	0.4302	4.63%
Ni 231.604†	314.6	0.1767	mg/L	0.00163	0.3534	mg/L	0.00326	0.92%
Pb 220.353†	18921.4	2.517	mg/L	0.0106	5.034	mg/L	0.0212	0.42%
Sb 206.836†	20.2	0.02697	mg/L	0.003381	0.05395	mg/L	0.006761	12.53%
Se 196.026†	-60.5	-0.05729	mg/L	0.004307	-0.1146	mg/L	0.00861	7.52%
Si 288.158†	2630.2	1.884	mg/L	0.0068	3.768	mg/L	0.0136	0.36%
Sn 189.927†	-12.6	0.00105	mg/L	0.001033	0.00210	mg/L	0.002066	98.36%
Sr 421.552†	309936.5	0.4740	mg/L	0.00112	0.9481	mg/L	0.00224	0.24%
Ti 334.903†	214587.5	8.942	mg/L	0.0193	17.88	mg/L	0.039	0.22%
Tl 190.801†	-16.5	-0.02611	mg/L	0.004667	-0.05222	mg/L	0.009334	17.87%
V 292.402†	141094.1	0.5649	mg/L	0.00090	1.130	mg/L	0.0018	0.16%
Zn 206.200†	2871.0	3.298	mg/L	0.0347	6.597	mg/L	0.0695	1.05%

Sequence No.: 7
Sample ID: JQ35 ADUP SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 27
Date Collected: 8/1/2006 3:03:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 ADUP SWC

Analyte	Back Pressure	Flow
All	196.0 kPa	0.50 L/min

Mean Data: JQ35 ADUP SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1606235.9	104.6	%	1.07				1.03%
ScR 361.383	197430.5	108.4	%	0.20				0.19%
Ag 328.068†	-1392.0	0.00341	mg/L	0.000181	0.00681	mg/L	0.000363	5.32%
Al 308.215†	239872.8	179.7	mg/L	0.31	359.4	mg/L	0.61	0.17%
As 188.979†	78.1	0.05451	mg/L	0.001925	0.1090	mg/L	0.00385	3.53%
B 249.677†	45.4	0.01176	mg/L	0.002669	0.02351	mg/L	0.005337	22.70%
Ba 233.527†	2263.9	0.7654	mg/L	0.00309	1.531	mg/L	0.0062	0.40%
Be 313.042†	2231.8	0.00283	mg/L	0.000014	0.00565	mg/L	0.000028	0.50%
Ca 317.933†	614885.5	34.92	mg/L	0.062	69.85	mg/L	0.124	0.18%
Cd 228.802†	306.3	0.00849	mg/L	0.000211	0.01698	mg/L	0.000422	2.48%
Co 228.616†	3406.7	0.08998	mg/L	0.001604	0.1800	mg/L	0.00321	1.78%
Cr 267.716†	1300.3	0.1846	mg/L	0.00170	0.3692	mg/L	0.00339	0.92%
Cu 324.752†	117682.6	0.4864	mg/L	0.00491	0.9728	mg/L	0.00982	1.01%
Fe 273.955†	192073.3	209.8	mg/L	0.45	419.5	mg/L	0.90	0.21%
K 766.490†	6884.4	5.814	mg/L	0.0250	11.63	mg/L	0.050	0.43%
Mg 279.077†	48837.5	37.10	mg/L	0.060	74.20	mg/L	0.119	0.16%
Mn 257.610†	82249.6	3.003	mg/L	0.0037	6.006	mg/L	0.0074	0.12%
Mo 202.031†	21.4	0.00543	mg/L	0.000189	0.01087	mg/L	0.000379	3.49%
Na 589.592†	30123.8	4.935	mg/L	0.0014	9.870	mg/L	0.0028	0.03%
Na 330.237†	99.7	4.725	mg/L	0.0789	9.450	mg/L	0.1578	1.67%
Ni 231.604†	291.5	0.1638	mg/L	0.00091	0.3275	mg/L	0.00183	0.56%
Pb 220.353†	8270.2	1.120	mg/L	0.0100	2.240	mg/L	0.0201	0.90%
Sb 206.836†	17.2	0.02416	mg/L	0.001362	0.04832	mg/L	0.002724	5.64%
Se 196.026†	-68.5	-0.06378	mg/L	0.004559	-0.1276	mg/L	0.00912	7.15%
Si 288.158†	3218.5	2.305	mg/L	0.0144	4.610	mg/L	0.0288	0.62%
Sn 189.927†	-20.2	-0.00181	mg/L	0.000829	-0.00362	mg/L	0.001657	45.81%
Sr 421.552†	290357.8	0.4441	mg/L	0.00059	0.8882	mg/L	0.00118	0.13%
Ti 334.903†	207991.3	8.668	mg/L	0.0120	17.34	mg/L	0.024	0.14%
Tl 190.801†	-13.3	-0.02255	mg/L	0.007073	-0.04511	mg/L	0.014146	31.36%
V 292.402†	130883.6	0.5237	mg/L	0.00515	1.047	mg/L	0.0103	0.98%
Zn 206.200†	1689.0	1.938	mg/L	0.0029	3.877	mg/L	0.0058	0.15%

Sequence No.: 8
Sample ID: JQ35 A SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 28
Date Collected: 8/1/2006 3:10:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 A SWC

Analyte	Back Pressure	Flow
All	195.0 kPa	0.50 L/min

Mean Data: JQ35 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1624677.0	105.8	%	0.32				0.31%
ScR 361.383	196708.9	108.0	%	1.43				1.32%
Ag 328.068†	-1129.1	0.00423	mg/L	0.000322	0.00845	mg/L	0.000644	7.62%
Al 308.215†	238417.8	178.6	mg/L	0.71	357.2	mg/L	1.42	0.40%
As 188.979†	76.2	0.05280	mg/L	0.004817	0.1056	mg/L	0.00963	9.12%
B 249.677†	40.9	0.01039	mg/L	0.003376	0.02078	mg/L	0.006752	32.49%
Ba 233.527†	2266.9	0.7666	mg/L	0.00855	1.533	mg/L	0.0171	1.12%
Be 313.042†	2222.4	0.00282	mg/L	0.000009	0.00564	mg/L	0.000018	0.31%
Ca 317.933†	617632.7	35.08	mg/L	0.110	70.16	mg/L	0.220	0.31%
Cd 228.802†	256.6	0.00677	mg/L	0.000115	0.01355	mg/L	0.000231	1.70%
Co 228.616†	3245.8	0.08528	mg/L	0.000100	0.1706	mg/L	0.00020	0.12%
Cr 267.716†	1300.0	0.1843	mg/L	0.00184	0.3686	mg/L	0.00368	1.00%
Cu 324.752†	82793.0	0.3472	mg/L	0.00059	0.6945	mg/L	0.00117	0.17%
Fe 273.955†	189817.9	207.3	mg/L	0.35	414.6	mg/L	0.69	0.17%
K 766.490†	6785.2	5.730	mg/L	0.0620	11.46	mg/L	0.124	1.08%
Mg 279.077†	48584.7	36.91	mg/L	0.130	73.82	mg/L	0.260	0.35%
Mn 257.610†	85521.0	3.123	mg/L	0.0114	6.245	mg/L	0.0228	0.37%
Mo 202.031†	20.5	0.00531	mg/L	0.000472	0.01063	mg/L	0.000944	8.88%
Na 589.592†	29978.3	4.911	mg/L	0.0367	9.822	mg/L	0.0735	0.75%
Na 330.237†	94.5	4.578	mg/L	0.3000	9.156	mg/L	0.6000	6.55%
Ni 231.604†	282.8	0.1589	mg/L	0.00343	0.3178	mg/L	0.00685	2.16%
Pb 220.353†	9246.9	1.248	mg/L	0.0043	2.496	mg/L	0.0085	0.34%
Sb 206.836†	15.2	0.02194	mg/L	0.003262	0.04387	mg/L	0.006524	14.87%
Se 196.026†	-70.6	-0.06577	mg/L	0.006306	-0.1315	mg/L	0.01261	9.59%
Si 288.158†	2852.7	2.043	mg/L	0.0286	4.086	mg/L	0.0571	1.40%
Sn 189.927†	-23.5	-0.00263	mg/L	0.000417	-0.00527	mg/L	0.000834	15.84%
Sr 421.552†	291594.9	0.4460	mg/L	0.00170	0.8919	mg/L	0.00339	0.38%
Ti 334.903†	203636.2	8.486	mg/L	0.0303	16.97	mg/L	0.061	0.36%
Tl 190.801†	-17.8	-0.02685	mg/L	0.001822	-0.05369	mg/L	0.003644	6.79%
V 292.402†	129415.1	0.5179	mg/L	0.00071	1.036	mg/L	0.0014	0.14%
Zn 206.200†	1435.2	1.646	mg/L	0.0210	3.293	mg/L	0.0419	1.27%

Sequence No.: 9
Sample ID: JQ35 ASPK SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 29
Date Collected: 8/1/2006 3:17:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 ASPK SWC

Analyte	Back Pressure	Flow
All	195.0 kPa	0.50 L/min

Mean Data: JQ35 ASPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1610159.6	104.8	%	0.43				0.41%
ScR 361.383	203500.8	111.7	%	1.28				1.15%
Ag 328.068†	128886.4	0.4707	mg/L	0.00128	0.9414	mg/L	0.00256	0.27%
Al 308.215†	259052.1	194.1	mg/L	0.05	388.1	mg/L	0.09	0.02%
As 188.979†	1541.4	1.838	mg/L	0.0077	3.675	mg/L	0.0154	0.42%
B 249.677†	38.3	0.01027	mg/L	0.001572	0.02055	mg/L	0.003143	15.30%
Ba 233.527†	7674.4	2.630	mg/L	0.0257	5.260	mg/L	0.0514	0.98%
Be 313.042†	293704.3	0.4789	mg/L	0.00110	0.9577	mg/L	0.00219	0.23%
Ca 317.933†	827169.8	46.98	mg/L	0.138	93.96	mg/L	0.276	0.29%
Cd 228.802†	13610.6	0.4734	mg/L	0.00292	0.9468	mg/L	0.00583	0.62%
Co 228.616†	17260.3	0.5243	mg/L	0.00355	1.049	mg/L	0.0071	0.68%
Cr 267.716†	4689.4	0.6400	mg/L	0.00736	1.280	mg/L	0.0147	1.15%
Cu 324.752†	216405.1	0.8807	mg/L	0.00183	1.761	mg/L	0.0037	0.21%
Fe 273.955†	203185.2	221.9	mg/L	1.78	443.8	mg/L	3.56	0.80%
K 766.490†	17712.8	14.96	mg/L	0.087	29.92	mg/L	0.174	0.58%
Mg 279.077†	63358.4	48.17	mg/L	0.098	96.34	mg/L	0.195	0.20%
Mn 257.610†	97954.0	3.577	mg/L	0.0133	7.154	mg/L	0.0267	0.37%
Mo 202.031†	22.5	0.00560	mg/L	0.000627	0.01120	mg/L	0.001255	11.20%
Na 589.592†	90374.5	14.81	mg/L	0.009	29.61	mg/L	0.017	0.06%
Na 330.237†	393.7	14.34	mg/L	0.425	28.68	mg/L	0.850	2.96%
Ni 231.604†	1116.9	0.6275	mg/L	0.00503	1.255	mg/L	0.0101	0.80%
Pb 220.353†	22354.4	2.972	mg/L	0.0185	5.943	mg/L	0.0369	0.62%
Sb 206.836†	24.1	0.02576	mg/L	0.003394	0.05152	mg/L	0.006788	13.18%
Se 196.026†	2001.6	1.761	mg/L	0.0057	3.522	mg/L	0.0114	0.32%
Si 288.158†	3164.7	2.268	mg/L	0.0179	4.535	mg/L	0.0358	0.79%
Sn 189.927†	-26.2	-0.00152	mg/L	0.000605	-0.00304	mg/L	0.001210	39.76%
Sr 421.552†	611820.3	0.9357	mg/L	0.00020	1.871	mg/L	0.0004	0.02%
Ti 334.903†	213337.9	8.890	mg/L	0.0146	17.78	mg/L	0.029	0.16%
Tl 190.801†	1719.1	1.714	mg/L	0.0056	3.428	mg/L	0.0112	0.33%
V 292.402†	248367.6	0.9990	mg/L	0.00361	1.998	mg/L	0.0072	0.36%
Zn 206.200†	2474.1	2.841	mg/L	0.0274	5.683	mg/L	0.0547	0.96%

Sequence No.: 10
Sample ID: JQ35 MB1SPK SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 30
Date Collected: 8/1/2006 3:23:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 MB1SPK SWC

Analyte	Back Pressure	Flow
All	196.0 kPa	0.50 L/min

Mean Data: JQ35 MB1SPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1567813.3	102.1	%	1.20				1.17%
ScR 361.383	189403.9	104.0	%	1.14				1.10%
Ag 328.068†	136363.8	0.4887	mg/L	0.00587	0.9774	mg/L	0.01174	1.20%
Al 308.215†	2679.7	1.999	mg/L	0.0050	3.999	mg/L	0.0099	0.25%
As 188.979†	1628.8	1.987	mg/L	0.0204	3.974	mg/L	0.0409	1.03%
B 249.677†	2.1	0.00155	mg/L	0.001115	0.00310	mg/L	0.002229	71.83%
Ba 233.527†	5503.0	1.897	mg/L	0.0190	3.795	mg/L	0.0381	1.00%
Be 313.042†	305698.9	0.4993	mg/L	0.00132	0.9986	mg/L	0.00264	0.26%
Ca 317.933†	177337.7	10.07	mg/L	0.019	20.14	mg/L	0.039	0.19%
Cd 228.802†	14244.8	0.4978	mg/L	0.00617	0.9955	mg/L	0.01234	1.24%
Co 228.616†	15389.6	0.4830	mg/L	0.00758	0.9659	mg/L	0.01516	1.57%
Cr 267.716†	3577.0	0.4801	mg/L	0.00455	0.9602	mg/L	0.00911	0.95%
Cu 324.752†	121685.8	0.4849	mg/L	0.00575	0.9698	mg/L	0.01150	1.19%
Fe 273.955†	1873.5	2.045	mg/L	0.0217	4.090	mg/L	0.0434	1.06%
K 766.490†	11774.3	9.944	mg/L	0.0786	19.89	mg/L	0.157	0.79%
Mg 279.077†	13496.1	10.30	mg/L	0.033	20.59	mg/L	0.066	0.32%
Mn 257.610†	13057.3	0.4773	mg/L	0.00254	0.9546	mg/L	0.00508	0.53%
Mo 202.031†	16.1	0.00156	mg/L	0.000134	0.00312	mg/L	0.000267	8.57%
Na 589.592†	62199.2	10.19	mg/L	0.065	20.38	mg/L	0.129	0.63%
Na 330.237†	304.3	10.02	mg/L	0.198	20.05	mg/L	0.396	1.98%
Ni 231.604†	872.8	0.4903	mg/L	0.00462	0.9807	mg/L	0.00924	0.94%
Pb 220.353†	15124.2	1.986	mg/L	0.0197	3.971	mg/L	0.0395	0.99%
Sb 206.836†	9.5	0.00380	mg/L	0.001973	0.00759	mg/L	0.003946	51.97%
Se 196.026†	2297.3	2.025	mg/L	0.0208	4.051	mg/L	0.0415	1.02%
Si 288.158†	6.1	0.00540	mg/L	0.002041	0.01080	mg/L	0.004083	37.79%
Sn 189.927†	-22.9	-0.00447	mg/L	0.002024	-0.00894	mg/L	0.004048	45.27%
Sr 421.552†	321621.4	0.4919	mg/L	0.00226	0.9838	mg/L	0.00453	0.46%
Ti 334.903†	38.0	0.00148	mg/L	0.000135	0.00296	mg/L	0.000270	9.11%
Tl 190.801†	1959.3	1.964	mg/L	0.0252	3.928	mg/L	0.0503	1.28%
V 292.402†	122783.8	0.4970	mg/L	0.00610	0.9939	mg/L	0.01219	1.23%
Zn 206.200†	429.6	0.4943	mg/L	0.00359	0.9885	mg/L	0.00718	0.73%

Sequence No.: 11
Sample ID: CV 5
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/1/2006 3:30:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	195.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1551975.2	101.0	%	0.53				0.53%
ScR 361.383	190217.6	104.4	%	0.60				0.57%
Ag 328.068†	270619.3	0.9696	mg/L	0.00626	0.9696	mg/L	0.00626	0.65%
Al 308.215†	2650.2	1.949	mg/L	0.0108	1.949	mg/L	0.0108	0.56%
As 188.979†	1632.0	1.988	mg/L	0.0060	1.988	mg/L	0.0060	0.30%
B 249.677†	2981.4	0.9469	mg/L	0.00257	0.9469	mg/L	0.00257	0.27%
Ba 233.527†	2760.3	0.9514	mg/L	0.00474	0.9514	mg/L	0.00474	0.50%
Be 313.042†	595721.6	0.9730	mg/L	0.00117	0.9730	mg/L	0.00117	0.12%
Ca 317.933†	35804.6	2.034	mg/L	0.0021	2.034	mg/L	0.0021	0.10%
Cd 228.802†	28573.8	1.001	mg/L	0.0061	1.001	mg/L	0.0061	0.61%
Co 228.616†	31098.6	0.9753	mg/L	0.00584	0.9753	mg/L	0.00584	0.60%
Cr 267.716†	6930.7	0.9326	mg/L	0.00408	0.9326	mg/L	0.00408	0.44%
Cu 324.752†	254033.4	1.011	mg/L	0.0071	1.011	mg/L	0.0071	0.71%
Fe 273.955†	1829.7	1.996	mg/L	0.0166	1.996	mg/L	0.0166	0.83%
K 766.490†	23120.5	19.53	mg/L	0.105	19.53	mg/L	0.105	0.54%
Mg 279.077†	2638.6	2.017	mg/L	0.0075	2.017	mg/L	0.0075	0.37%
Mn 257.610†	25641.4	0.9372	mg/L	0.00053	0.9372	mg/L	0.00053	0.06%
Mo 202.031†	9183.4	1.000	mg/L	0.0018	1.000	mg/L	0.0018	0.18%
Na 589.592†	303516.0	49.72	mg/L	0.065	49.72	mg/L	0.065	0.13%
Na 330.237†	1483.6	49.90	mg/L	0.232	49.90	mg/L	0.232	0.47%
Ni 231.604†	1754.1	0.9865	mg/L	0.00185	0.9865	mg/L	0.00185	0.19%
Pb 220.353†	15092.2	1.982	mg/L	0.0146	1.982	mg/L	0.0146	0.74%
Sb 206.836†	1855.3	1.907	mg/L	0.0046	1.907	mg/L	0.0046	0.24%
Se 196.026†	2279.0	2.009	mg/L	0.0090	2.009	mg/L	0.0090	0.45%
Si 288.158†	2781.1	1.994	mg/L	0.0084	1.994	mg/L	0.0084	0.42%
Sn 189.927†	3563.1	0.9542	mg/L	0.00062	0.9542	mg/L	0.00062	0.06%
Sr 421.552†	634350.1	0.9702	mg/L	0.00059	0.9702	mg/L	0.00059	0.06%
Ti 334.903†	23809.3	0.9910	mg/L	0.00083	0.9910	mg/L	0.00083	0.08%
Tl 190.801†	1969.7	1.974	mg/L	0.0038	1.974	mg/L	0.0038	0.19%
V 292.402†	241707.0	0.9784	mg/L	0.00578	0.9784	mg/L	0.00578	0.59%
Zn 206.200†	871.7	1.002	mg/L	0.0048	1.002	mg/L	0.0048	0.48%

Sequence No.: 12
Sample ID: CB 5
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/1/2006 3:37:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	194.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1548959.2	100.8	%	1.13				1.12%
ScR 361.383	189447.2	104.0	%	0.17				0.16%
Ag 328.068†	119.7	0.00043	mg/L	0.000125	0.00043	mg/L	0.000125	29.23%
Al 308.215†	21.5	0.01609	mg/L	0.011146	0.01609	mg/L	0.011146	69.28%
As 188.979†	1.3	0.00164	mg/L	0.001664	0.00164	mg/L	0.001664	101.19%
B 249.677†	9.9	0.00313	mg/L	0.001395	0.00313	mg/L	0.001395	44.58%
Ba 233.527†	-0.6	-0.00021	mg/L	0.000936	-0.00021	mg/L	0.000936	452.47%
Be 313.042†	-39.0	-0.00006	mg/L	0.000010	-0.00006	mg/L	0.000010	15.39%
Ca 317.933†	5.0	0.00028	mg/L	0.001549	0.00028	mg/L	0.001549	547.95%
Cd 228.802†	-3.5	-0.00013	mg/L	0.000053	-0.00013	mg/L	0.000053	41.99%
Co 228.616†	9.1	0.00029	mg/L	0.000147	0.00029	mg/L	0.000147	51.19%
Cr 267.716†	-5.3	-0.00071	mg/L	0.001025	-0.00071	mg/L	0.001025	144.10%
Cu 324.752†	42.9	0.00017	mg/L	0.000157	0.00017	mg/L	0.000157	92.04%
Fe 273.955†	-2.3	-0.00250	mg/L	0.000615	-0.00250	mg/L	0.000615	24.58%
K 766.490†	-30.9	-0.02613	mg/L	0.035709	-0.02613	mg/L	0.035709	136.69%
Mg 279.077†	-1.3	-0.00101	mg/L	0.018736	-0.00101	mg/L	0.018736	>999.9%
Mn 257.610†	-3.5	-0.00013	mg/L	0.000068	-0.00013	mg/L	0.000068	54.04%
Mo 202.031†	0.4	0.00004	mg/L	0.000298	0.00004	mg/L	0.000298	724.96%
Na 589.592†	90.7	0.01486	mg/L	0.008084	0.01486	mg/L	0.008084	54.39%
Na 330.237†	6.8	0.2293	mg/L	0.27125	0.2293	mg/L	0.27125	118.29%
Ni 231.604†	4.1	0.00233	mg/L	0.002137	0.00233	mg/L	0.002137	91.61%
Pb 220.353†	15.7	0.00206	mg/L	0.000037	0.00206	mg/L	0.000037	1.78%
Sb 206.836†	4.6	0.00476	mg/L	0.002210	0.00476	mg/L	0.002210	46.44%
Se 196.026†	2.8	0.00251	mg/L	0.001837	0.00251	mg/L	0.001837	73.31%
Si 288.158†	2.4	0.00170	mg/L	0.002178	0.00170	mg/L	0.002178	127.85%
Sn 189.927†	0.5	0.00015	mg/L	0.000548	0.00015	mg/L	0.000548	375.33%
Sr 421.552†	23.9	0.00004	mg/L	0.000057	0.00004	mg/L	0.000057	155.33%
Ti 334.903†	7.7	0.00032	mg/L	0.001386	0.00032	mg/L	0.001386	434.04%
Tl 190.801†	6.6	0.00660	mg/L	0.001809	0.00660	mg/L	0.001809	27.43%
V 292.402†	26.2	0.00010	mg/L	0.000141	0.00010	mg/L	0.000141	141.24%
Zn 206.200†	3.5	0.00407	mg/L	0.002893	0.00407	mg/L	0.002893	71.09%

Sequence No.: 13
Sample ID: JQ35 G SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 31
Date Collected: 8/1/2006 3:43:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 G SWC

Analyte	Back Pressure	Flow
All	194.0 kPa	0.50 L/min

Mean Data: JQ35 G SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1613482.8	105.0	%	0.82				0.78%
ScR 361.383	198327.8	108.9	%	0.90				0.83%
Ag 328.068†	-308.3	0.00878	mg/L	0.000162	0.01756	mg/L	0.000324	1.84%
Al 308.215†	256934.4	192.5	mg/L	0.47	385.0	mg/L	0.95	0.25%
As 188.979†	163.0	0.1518	mg/L	0.00772	0.3036	mg/L	0.01543	5.08%
B 249.677†	39.3	0.00935	mg/L	0.000726	0.01869	mg/L	0.001452	7.77%
Ba 233.527†	2884.8	0.9769	mg/L	0.00877	1.954	mg/L	0.0175	0.90%
Be 313.042†	2425.3	0.00295	mg/L	0.000040	0.00591	mg/L	0.000080	1.35%
Ca 317.933†	788968.6	44.81	mg/L	0.119	89.62	mg/L	0.238	0.27%
Cd 228.802†	714.6	0.02235	mg/L	0.000051	0.04469	mg/L	0.000103	0.23%
Co 228.616†	3990.8	0.1049	mg/L	0.00036	0.2097	mg/L	0.00073	0.35%
Cr 267.716†	1577.1	0.2242	mg/L	0.00234	0.4484	mg/L	0.00469	1.05%
Cu 324.752†	174344.9	0.7150	mg/L	0.00068	1.430	mg/L	0.0014	0.10%
Fe 273.955†	223854.3	244.5	mg/L	0.89	489.0	mg/L	1.79	0.37%
K 766.490†	7156.1	6.044	mg/L	0.0693	12.09	mg/L	0.139	1.15%
Mg 279.077†	52651.9	39.99	mg/L	0.127	79.97	mg/L	0.254	0.32%
Mn 257.610†	80254.8	2.931	mg/L	0.0080	5.862	mg/L	0.0160	0.27%
Mo 202.031†	21.1	0.00561	mg/L	0.000485	0.01122	mg/L	0.000969	8.64%
Na 589.592†	36551.1	5.988	mg/L	0.0105	11.98	mg/L	0.021	0.17%
Na 330.237†	130.3	5.510	mg/L	0.2200	11.02	mg/L	0.440	3.99%
Ni 231.604†	399.9	0.2247	mg/L	0.00373	0.4494	mg/L	0.00747	1.66%
Pb 220.353†	31439.2	4.163	mg/L	0.0139	8.325	mg/L	0.0279	0.33%
Sb 206.836†	28.4	0.03684	mg/L	0.003775	0.07369	mg/L	0.007549	10.24%
Se 196.026†	-83.3	-0.07681	mg/L	0.007821	-0.1536	mg/L	0.01564	10.18%
Si 288.158†	2633.5	1.886	mg/L	0.0162	3.773	mg/L	0.0324	0.86%
Sn 189.927†	-16.3	0.00075	mg/L	0.001610	0.00149	mg/L	0.003221	216.01%
Sr 421.552†	386038.8	0.5904	mg/L	0.00130	1.181	mg/L	0.0026	0.22%
Ti 334.903†	246954.1	10.29	mg/L	0.024	20.58	mg/L	0.048	0.23%
Tl 190.801†	-20.8	-0.03187	mg/L	0.002914	-0.06374	mg/L	0.005827	9.14%
V 292.402†	161035.0	0.6443	mg/L	0.00089	1.289	mg/L	0.0018	0.14%
Zn 206.200†	3640.1	4.183	mg/L	0.0413	8.366	mg/L	0.0826	0.99%

Sequence No.: 14
Sample ID: JQ35 H SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 32
Date Collected: 8/1/2006 3:49:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 H SWC

Analyte	Back Pressure	Flow
All	195.0 kPa	0.50 L/min

Mean Data: JQ35 H SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1616443.5	105.2	%	0.41				0.39%
ScR 361.383	200788.3	110.2	%	1.32				1.20%
Ag 328.068†	-1586.3	0.00258	mg/L	0.000244	0.00516	mg/L	0.000489	9.48%
Al 308.215†	243998.6	182.8	mg/L	3.07	365.6	mg/L	6.15	1.68%
As 188.979†	69.7	0.04430	mg/L	0.005806	0.08860	mg/L	0.011612	13.11%
B 249.677†	55.1	0.01486	mg/L	0.000595	0.02972	mg/L	0.001190	4.01%
Ba 233.527†	2362.1	0.7994	mg/L	0.01277	1.599	mg/L	0.0255	1.60%
Be 313.042†	2279.1	0.00289	mg/L	0.000091	0.00578	mg/L	0.000182	3.14%
Ca 317.933†	637408.1	36.20	mg/L	0.637	72.41	mg/L	1.273	1.76%
Cd 228.802†	253.1	0.00665	mg/L	0.000224	0.01331	mg/L	0.000447	3.36%
Co 228.616†	3432.3	0.09111	mg/L	0.000296	0.1822	mg/L	0.00059	0.32%
Cr 267.716†	1275.6	0.1810	mg/L	0.00359	0.3620	mg/L	0.00718	1.98%
Cu 324.752†	77842.6	0.3276	mg/L	0.00303	0.6551	mg/L	0.00606	0.93%
Fe 273.955†	190253.7	207.8	mg/L	4.00	415.6	mg/L	8.01	1.93%
K 766.490†	6774.4	5.721	mg/L	0.1414	11.44	mg/L	0.283	2.47%
Mg 279.077†	48271.1	36.67	mg/L	0.656	73.34	mg/L	1.311	1.79%
Mn 257.610†	91080.7	3.326	mg/L	0.0588	6.651	mg/L	0.1177	1.77%
Mo 202.031†	17.0	0.00503	mg/L	0.000439	0.01007	mg/L	0.000877	8.71%
Na 589.592†	29517.7	4.836	mg/L	0.0820	9.671	mg/L	0.1639	1.70%
Na 330.237†	94.6	4.572	mg/L	0.1998	9.144	mg/L	0.3996	4.37%
Ni 231.604†	283.3	0.1591	mg/L	0.00121	0.3183	mg/L	0.00242	0.76%
Pb 220.353†	5732.1	0.7875	mg/L	0.01161	1.575	mg/L	0.0232	1.47%
Sb 206.836†	16.8	0.02369	mg/L	0.001851	0.04738	mg/L	0.003703	7.81%
Se 196.026†	-74.1	-0.06909	mg/L	0.008418	-0.1382	mg/L	0.01684	12.18%
Si 288.158†	2589.4	1.855	mg/L	0.0243	3.709	mg/L	0.0485	1.31%
Sn 189.927†	-23.9	-0.00255	mg/L	0.000849	-0.00510	mg/L	0.001699	33.33%
Sr 421.552†	286732.5	0.4385	mg/L	0.00721	0.8771	mg/L	0.01443	1.64%
Ti 334.903†	204752.4	8.533	mg/L	0.1458	17.07	mg/L	0.292	1.71%
Tl 190.801†	-15.4	-0.02462	mg/L	0.003597	-0.04925	mg/L	0.007194	14.61%
V 292.402†	132985.9	0.5322	mg/L	0.00606	1.064	mg/L	0.0121	1.14%
Zn 206.200†	1467.5	1.684	mg/L	0.0248	3.367	mg/L	0.0496	1.47%

Sequence No.: 15
Sample ID: JQ35 I SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 33
Date Collected: 8/1/2006 3:56:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 I SWC

Analyte	Back Pressure	Flow
All	196.0 kPa	0.50 L/min

Mean Data: JQ35 I SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1635390.5	106.5	%	0.62				0.58%
ScR 361.383	204544.4	112.3	%	0.81				0.72%
Ag 328.068†	-936.2	0.00507	mg/L	0.000084	0.01014	mg/L	0.000168	1.65%
Al 308.215†	232441.7	174.1	mg/L	0.14	348.3	mg/L	0.28	0.08%
As 188.979†	89.3	0.06880	mg/L	0.004790	0.1376	mg/L	0.00958	6.96%
B 249.677†	49.7	0.01321	mg/L	0.001159	0.02642	mg/L	0.002318	8.77%
Ba 233.527†	2432.7	0.8234	mg/L	0.00557	1.647	mg/L	0.0111	0.68%
Be 313.042†	2164.1	0.00273	mg/L	0.000052	0.00545	mg/L	0.000104	1.91%
Ca 317.933†	641218.9	36.42	mg/L	0.032	72.84	mg/L	0.064	0.09%
Cd 228.802†	439.7	0.01314	mg/L	0.000079	0.02628	mg/L	0.000158	0.60%
Co 228.616†	3330.0	0.08770	mg/L	0.000989	0.1754	mg/L	0.00198	1.13%
Cr 267.716†	1392.6	0.1975	mg/L	0.00091	0.3949	mg/L	0.00182	0.46%
Cu 324.752†	120154.4	0.4965	mg/L	0.00373	0.9930	mg/L	0.00746	0.75%
Fe 273.955†	194087.9	212.0	mg/L	0.34	423.9	mg/L	0.67	0.16%
K 766.490†	6921.7	5.846	mg/L	0.0307	11.69	mg/L	0.061	0.53%
Mg 279.077†	45188.9	34.32	mg/L	0.040	68.63	mg/L	0.081	0.12%
Mn 257.610†	92124.9	3.364	mg/L	0.0030	6.728	mg/L	0.0059	0.09%
Mo 202.031†	31.9	0.00652	mg/L	0.000358	0.01304	mg/L	0.000716	5.49%
Na 589.592†	28699.3	4.702	mg/L	0.0112	9.403	mg/L	0.0223	0.24%
Na 330.237†	102.9	4.572	mg/L	0.2606	9.144	mg/L	0.5211	5.70%
Ni 231.604†	325.7	0.1830	mg/L	0.00170	0.3659	mg/L	0.00340	0.93%
Pb 220.353†	11485.2	1.541	mg/L	0.0151	3.081	mg/L	0.0303	0.98%
Sb 206.836†	18.2	0.02486	mg/L	0.000909	0.04972	mg/L	0.001817	3.66%
Se 196.026†	-65.1	-0.06124	mg/L	0.005077	-0.1225	mg/L	0.01015	8.29%
Si 288.158†	2741.9	1.964	mg/L	0.0214	3.928	mg/L	0.0427	1.09%
Sn 189.927†	-4.0	0.00291	mg/L	0.001113	0.00582	mg/L	0.002226	38.27%
Sr 421.552†	298726.9	0.4569	mg/L	0.00032	0.9138	mg/L	0.00065	0.07%
Ti 334.903†	203989.3	8.501	mg/L	0.0052	17.00	mg/L	0.010	0.06%
Tl 190.801†	-18.6	-0.02773	mg/L	0.002125	-0.05546	mg/L	0.004250	7.66%
V 292.402†	129337.5	0.5177	mg/L	0.00465	1.035	mg/L	0.0093	0.90%
Zn 206.200†	2404.8	2.762	mg/L	0.0164	5.524	mg/L	0.0328	0.59%

Sequence No.: 16
Sample ID: JQ35 J SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 34
Date Collected: 8/1/2006 4:03:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 J SWC

Analyte	Back Pressure	Flow
All	198.0 kPa	0.50 L/min

Mean Data: JQ35 J SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1634762.8	106.4	%	1.11				1.04%
ScR 361.383	206147.4	113.2	%	1.04				0.92%
Ag 328.068†	-845.0	0.00532	mg/L	0.000284	0.01064	mg/L	0.000568	5.34%
Al 308.215†	213949.0	160.3	mg/L	0.28	320.6	mg/L	0.57	0.18%
As 188.979†	91.7	0.07253	mg/L	0.005046	0.1451	mg/L	0.01009	6.96%
B 249.677†	44.1	0.01134	mg/L	0.001530	0.02268	mg/L	0.003060	13.49%
Ba 233.527†	2340.3	0.7917	mg/L	0.00370	1.583	mg/L	0.0074	0.47%
Be 313.042†	2072.5	0.00257	mg/L	0.000017	0.00514	mg/L	0.000034	0.67%
Ca 317.933†	649126.0	36.87	mg/L	0.128	73.74	mg/L	0.255	0.35%
Cd 228.802†	416.5	0.01234	mg/L	0.000305	0.02469	mg/L	0.000610	2.47%
Co 228.616†	3574.7	0.09489	mg/L	0.000628	0.1898	mg/L	0.00126	0.66%
Cr 267.716†	1307.1	0.1859	mg/L	0.00173	0.3719	mg/L	0.00347	0.93%
Cu 324.752†	121491.2	0.5016	mg/L	0.00413	1.003	mg/L	0.0083	0.82%
Fe 273.955†	192320.7	210.0	mg/L	0.99	420.1	mg/L	1.98	0.47%
K 766.490†	6291.7	5.314	mg/L	0.0192	10.63	mg/L	0.038	0.36%
Mg 279.077†	43683.7	33.17	mg/L	0.160	66.34	mg/L	0.321	0.48%
Mn 257.610†	91733.5	3.350	mg/L	0.0130	6.700	mg/L	0.0260	0.39%
Mo 202.031†	24.1	0.00538	mg/L	0.000122	0.01076	mg/L	0.000244	2.27%
Na 589.592†	29313.4	4.802	mg/L	0.0079	9.604	mg/L	0.0158	0.16%
Na 330.237†	100.8	4.570	mg/L	0.1918	9.140	mg/L	0.3835	4.20%
Ni 231.604†	345.6	0.1942	mg/L	0.00073	0.3884	mg/L	0.00146	0.38%
Pb 220.353†	11510.0	1.541	mg/L	0.0149	3.083	mg/L	0.0299	0.97%
Sb 206.836†	17.5	0.02443	mg/L	0.003495	0.04887	mg/L	0.006991	14.31%
Se 196.026†	-61.7	-0.05822	mg/L	0.002472	-0.1164	mg/L	0.00494	4.25%
Si 288.158†	3304.8	2.367	mg/L	0.0174	4.734	mg/L	0.0348	0.74%
Sn 189.927†	-10.3	0.00129	mg/L	0.000867	0.00258	mg/L	0.001733	67.08%
Sr 421.552†	297687.1	0.4553	mg/L	0.00085	0.9106	mg/L	0.00170	0.19%
Ti 334.903†	208398.3	8.685	mg/L	0.0202	17.37	mg/L	0.040	0.23%
Tl 190.801†	-18.8	-0.02815	mg/L	0.005664	-0.05630	mg/L	0.011327	20.12%
V 292.402†	130411.1	0.5218	mg/L	0.00419	1.044	mg/L	0.0084	0.80%
Zn 206.200†	2309.2	2.652	mg/L	0.0107	5.304	mg/L	0.0213	0.40%

Sequence No.: 17
Sample ID: JQ35 K SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 35
Date Collected: 8/1/2006 4:10:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 K SWC

Analyte	Back Pressure	Flow
All	197.0 kPa	0.50 L/min

Mean Data: JQ35 K SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1638521.1	106.7	%	1.79				1.68%
ScR 361.383	201532.2	110.7	%	1.17				1.05%
Ag 328.068†	1047.7	0.01259	mg/L	0.000234	0.02518	mg/L	0.000469	1.86%
Al 308.215†	243551.9	182.5	mg/L	0.75	364.9	mg/L	1.50	0.41%
As 188.979†	108.2	0.08983	mg/L	0.003220	0.1797	mg/L	0.00644	3.58%
B 249.677†	44.7	0.01147	mg/L	0.003606	0.02294	mg/L	0.007212	31.43%
Ba 233.527†	2611.7	0.8844	mg/L	0.00879	1.769	mg/L	0.0176	0.99%
Be 313.042†	2249.9	0.00282	mg/L	0.000058	0.00563	mg/L	0.000116	2.07%
Ca 317.933†	658506.1	37.40	mg/L	0.146	74.80	mg/L	0.291	0.39%
Cd 228.802†	449.4	0.01335	mg/L	0.000446	0.02670	mg/L	0.000892	3.34%
Co 228.616†	3656.9	0.09704	mg/L	0.001533	0.1941	mg/L	0.00307	1.58%
Cr 267.716†	1447.5	0.2054	mg/L	0.00229	0.4109	mg/L	0.00458	1.11%
Cu 324.752†	147904.3	0.6078	mg/L	0.00361	1.216	mg/L	0.0072	0.59%
Fe 273.955†	202883.8	221.6	mg/L	1.11	443.1	mg/L	2.23	0.50%
K 766.490†	6987.6	5.901	mg/L	0.0827	11.80	mg/L	0.165	1.40%
Mg 279.077†	46858.9	35.58	mg/L	0.071	71.17	mg/L	0.143	0.20%
Mn 257.610†	91688.0	3.348	mg/L	0.0152	6.696	mg/L	0.0304	0.45%
Mo 202.031†	30.0	0.00646	mg/L	0.000208	0.01292	mg/L	0.000416	3.22%
Na 589.592†	29931.2	4.903	mg/L	0.0253	9.807	mg/L	0.0506	0.52%
Na 330.237†	102.8	4.675	mg/L	0.2555	9.350	mg/L	0.5109	5.46%
Ni 231.604†	338.4	0.1901	mg/L	0.00339	0.3803	mg/L	0.00678	1.78%
Pb 220.353†	13864.7	1.855	mg/L	0.0040	3.709	mg/L	0.0079	0.21%
Sb 206.836†	25.0	0.03224	mg/L	0.004041	0.06447	mg/L	0.008083	12.54%
Se 196.026†	-72.5	-0.06772	mg/L	0.004991	-0.1354	mg/L	0.00998	7.37%
Si 288.158†	2712.4	1.943	mg/L	0.0263	3.886	mg/L	0.0526	1.35%
Sn 189.927†	-6.3	0.00235	mg/L	0.000330	0.00470	mg/L	0.000660	14.06%
Sr 421.552†	316919.5	0.4847	mg/L	0.00220	0.9694	mg/L	0.00440	0.45%
Ti 334.903†	215486.7	8.980	mg/L	0.0379	17.96	mg/L	0.076	0.42%
Tl 190.801†	-18.8	-0.02840	mg/L	0.006340	-0.05681	mg/L	0.012680	22.32%
V 292.402†	137176.9	0.5490	mg/L	0.00327	1.098	mg/L	0.0065	0.59%
Zn 206.200†	2415.5	2.774	mg/L	0.0350	5.548	mg/L	0.0701	1.26%

Sequence No.: 18
Sample ID: JQ35 L SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 36
Date Collected: 8/1/2006 4:17:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 L SWC

Analyte	Back Pressure	Flow
All	198.0 kPa	0.50 L/min

Mean Data: JQ35 L SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1641091.5	106.8	%	1.50				1.41%
ScR 361.383	205523.2	112.8	%	0.80				0.71%
Ag 328.068†	-2248.4	-0.00026	mg/L	0.000091	-0.00051	mg/L	0.000181	35.53%
Al 308.215†	137326.7	102.9	mg/L	0.27	205.8	mg/L	0.54	0.26%
As 188.979†	51.7	0.02482	mg/L	0.005089	0.04964	mg/L	0.010179	20.50%
B 249.677†	24.6	0.00432	mg/L	0.001246	0.00864	mg/L	0.002492	28.84%
Ba 233.527†	1568.2	0.5268	mg/L	0.00483	1.054	mg/L	0.0097	0.92%
Be 313.042†	1662.9	0.00189	mg/L	0.000031	0.00377	mg/L	0.000062	1.65%
Ca 317.933†	763123.1	43.34	mg/L	0.044	86.69	mg/L	0.087	0.10%
Cd 228.802†	39.0	-0.00066	mg/L	0.000194	-0.00132	mg/L	0.000388	29.37%
Co 228.616†	3570.9	0.09144	mg/L	0.001472	0.1829	mg/L	0.00294	1.61%
Cr 267.716†	761.7	0.1123	mg/L	0.00063	0.2246	mg/L	0.00126	0.56%
Cu 324.752†	26292.8	0.1203	mg/L	0.00085	0.2406	mg/L	0.00169	0.70%
Fe 273.955†	174813.2	190.9	mg/L	0.48	381.8	mg/L	0.96	0.25%
K 766.490†	5197.2	4.389	mg/L	0.0317	8.779	mg/L	0.0634	0.72%
Mg 279.077†	36667.3	27.83	mg/L	0.055	55.66	mg/L	0.110	0.20%
Mn 257.610†	50546.9	1.845	mg/L	0.0029	3.691	mg/L	0.0058	0.16%
Mo 202.031†	29.0	0.00478	mg/L	0.000384	0.00956	mg/L	0.000767	8.03%
Na 589.592†	36860.7	6.039	mg/L	0.0223	12.08	mg/L	0.045	0.37%
Na 330.237†	110.7	5.824	mg/L	0.1050	11.65	mg/L	0.210	1.80%
Ni 231.604†	266.3	0.1496	mg/L	0.00344	0.2992	mg/L	0.00689	2.30%
Pb 220.353†	189.8	0.04487	mg/L	0.000703	0.08975	mg/L	0.001406	1.57%
Sb 206.836†	10.4	0.01967	mg/L	0.001065	0.03934	mg/L	0.002130	5.41%
Se 196.026†	-56.9	-0.05231	mg/L	0.008122	-0.1046	mg/L	0.01624	15.53%
Si 288.158†	1356.9	0.9719	mg/L	0.01100	1.944	mg/L	0.0220	1.13%
Sn 189.927†	-39.8	-0.00572	mg/L	0.000858	-0.01143	mg/L	0.001716	15.01%
Sr 421.552†	301985.6	0.4619	mg/L	0.00115	0.9237	mg/L	0.00230	0.25%
Ti 334.903†	248111.0	10.34	mg/L	0.021	20.68	mg/L	0.042	0.20%
Tl 190.801†	-14.2	-0.02498	mg/L	0.001807	-0.04995	mg/L	0.003613	7.23%
V 292.402†	132453.6	0.5285	mg/L	0.00280	1.057	mg/L	0.0056	0.53%
Zn 206.200†	370.9	0.4222	mg/L	0.00354	0.8445	mg/L	0.00709	0.84%

Sequence No.: 19
Sample ID: JQ35 M SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 37
Date Collected: 8/1/2006 4:23:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 M SWC

Analyte	Back Pressure	Flow
All	198.0 kPa	0.50 L/min

Mean Data: JQ35 M SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1613440.4	105.0	%	0.78				0.74%
ScR 361.383	198178.8	108.8	%	1.30				1.20%
Ag 328.068†	-1311.4	0.00209	mg/L	0.000236	0.00418	mg/L	0.000472	11.31%
Al 308.215†	179880.2	134.8	mg/L	0.20	269.5	mg/L	0.40	0.15%
As 188.979†	68.1	0.04958	mg/L	0.006779	0.09916	mg/L	0.013557	13.67%
B 249.677†	39.5	0.01026	mg/L	0.002228	0.02052	mg/L	0.004455	21.71%
Ba 233.527†	1659.3	0.5600	mg/L	0.00737	1.120	mg/L	0.0147	1.32%
Be 313.042†	1632.3	0.00197	mg/L	0.000073	0.00394	mg/L	0.000146	3.70%
Ca 317.933†	614621.6	34.91	mg/L	0.093	69.82	mg/L	0.186	0.27%
Cd 228.802†	138.1	0.00305	mg/L	0.000107	0.00609	mg/L	0.000214	3.51%
Co 228.616†	2624.4	0.06775	mg/L	0.000269	0.1355	mg/L	0.00054	0.40%
Cr 267.716†	1137.7	0.1613	mg/L	0.00186	0.3227	mg/L	0.00373	1.15%
Cu 324.752†	63235.9	0.2658	mg/L	0.00078	0.5315	mg/L	0.00156	0.29%
Fe 273.955†	152303.1	166.3	mg/L	0.87	332.7	mg/L	1.74	0.52%
K 766.490†	6074.8	5.131	mg/L	0.0339	10.26	mg/L	0.068	0.66%
Mg 279.077†	36081.3	27.40	mg/L	0.067	54.80	mg/L	0.133	0.24%
Mn 257.610†	44796.7	1.635	mg/L	0.0041	3.270	mg/L	0.0082	0.25%
Mo 202.031†	30.4	0.00564	mg/L	0.000046	0.01129	mg/L	0.000092	0.81%
Na 589.592†	31381.7	5.141	mg/L	0.0020	10.28	mg/L	0.004	0.04%
Na 330.237†	107.5	4.935	mg/L	0.2263	9.871	mg/L	0.4527	4.59%
Ni 231.604†	250.4	0.1407	mg/L	0.00251	0.2814	mg/L	0.00502	1.78%
Pb 220.353†	3958.6	0.5455	mg/L	0.00188	1.091	mg/L	0.0038	0.34%
Sb 206.836†	13.3	0.01914	mg/L	0.002499	0.03827	mg/L	0.004997	13.06%
Se 196.026†	-55.2	-0.05058	mg/L	0.004481	-0.1012	mg/L	0.00896	8.86%
Si 288.158†	2272.9	1.628	mg/L	0.0394	3.256	mg/L	0.0788	2.42%
Sn 189.927†	-27.7	-0.00335	mg/L	0.001499	-0.00671	mg/L	0.002998	44.71%
Sr 421.552†	260049.9	0.3977	mg/L	0.00071	0.7955	mg/L	0.00141	0.18%
Ti 334.903†	179755.7	7.491	mg/L	0.0095	14.98	mg/L	0.019	0.13%
Tl 190.801†	-13.3	-0.02126	mg/L	0.009063	-0.04252	mg/L	0.018126	42.62%
V 292.402†	111231.1	0.4449	mg/L	0.00137	0.8897	mg/L	0.00275	0.31%
Zn 206.200†	862.1	0.9880	mg/L	0.01385	1.976	mg/L	0.0277	1.40%

Sequence No.: 20
Sample ID: JQ35 N SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 38
Date Collected: 8/1/2006 4:30:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 N SWC

Analyte	Back Pressure	Flow
All	197.0 kPa	0.50 L/min

Mean Data: JQ35 N SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1648442.1	107.3	%	0.25				0.23%
ScR 361.383	203406.8	111.7	%	0.30				0.27%
Ag 328.068†	-2448.1	-0.00011	mg/L	0.000284	-0.00023	mg/L	0.000568	251.85%
Al 308.215†	150729.3	112.9	mg/L	0.57	225.8	mg/L	1.15	0.51%
As 188.979†	66.3	0.04173	mg/L	0.002580	0.08346	mg/L	0.005160	6.18%
B 249.677†	26.8	0.00503	mg/L	0.000738	0.01006	mg/L	0.001476	14.67%
Ba 233.527†	1603.7	0.5376	mg/L	0.00228	1.075	mg/L	0.0046	0.42%
Be 313.042†	1774.9	0.00199	mg/L	0.000072	0.00399	mg/L	0.000145	3.63%
Ca 317.933†	767143.3	43.57	mg/L	0.255	87.14	mg/L	0.511	0.59%
Cd 228.802†	46.5	-0.00062	mg/L	0.000100	-0.00124	mg/L	0.000199	16.12%
Co 228.616†	3652.7	0.09375	mg/L	0.000793	0.1875	mg/L	0.00159	0.85%
Cr 267.716†	801.7	0.1192	mg/L	0.00104	0.2384	mg/L	0.00207	0.87%
Cu 324.752†	28621.9	0.1314	mg/L	0.00073	0.2628	mg/L	0.00146	0.55%
Fe 273.955†	192573.7	210.3	mg/L	0.39	420.6	mg/L	0.78	0.18%
K 766.490†	6969.9	5.886	mg/L	0.0934	11.77	mg/L	0.187	1.59%
Mg 279.077†	38771.1	29.42	mg/L	0.111	58.84	mg/L	0.221	0.38%
Mn 257.610†	44354.3	1.619	mg/L	0.0085	3.238	mg/L	0.0170	0.52%
Mo 202.031†	28.9	0.00495	mg/L	0.000323	0.00989	mg/L	0.000645	6.53%
Na 589.592†	44708.1	7.324	mg/L	0.0392	14.65	mg/L	0.078	0.54%
Na 330.237†	145.2	6.979	mg/L	0.0990	13.96	mg/L	0.198	1.42%
Ni 231.604†	272.3	0.1530	mg/L	0.00032	0.3060	mg/L	0.00065	0.21%
Pb 220.353†	431.8	0.07856	mg/L	0.001552	0.1571	mg/L	0.00310	1.98%
Sb 206.836†	11.6	0.02101	mg/L	0.001513	0.04202	mg/L	0.003025	7.20%
Se 196.026†	-65.8	-0.05987	mg/L	0.002113	-0.1197	mg/L	0.00423	3.53%
Si 288.158†	1644.2	1.178	mg/L	0.0046	2.355	mg/L	0.0093	0.39%
Sn 189.927†	-41.9	-0.00626	mg/L	0.000660	-0.01253	mg/L	0.001320	10.54%
Sr 421.552†	310894.6	0.4755	mg/L	0.00257	0.9510	mg/L	0.00514	0.54%
Ti 334.903†	247792.8	10.33	mg/L	0.055	20.65	mg/L	0.110	0.53%
Tl 190.801†	-11.5	-0.02237	mg/L	0.003013	-0.04474	mg/L	0.006025	13.47%
V 292.402†	144408.8	0.5766	mg/L	0.00456	1.153	mg/L	0.0091	0.79%
Zn 206.200†	364.7	0.4145	mg/L	0.00055	0.8291	mg/L	0.00110	0.13%

Sequence No.: 21
Sample ID: JQ35 O SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 39
Date Collected: 8/1/2006 4:37:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 O SWC

Analyte	Back Pressure	Flow
All	198.0 kPa	0.50 L/min

Mean Data: JQ35 O SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1641887.6	106.9	%	0.66				0.62%
ScR 361.383	204205.1	112.1	%	0.77				0.68%
Ag 328.068†	-1282.0	0.00385	mg/L	0.000246	0.00770	mg/L	0.000493	6.40%
Al 308.215†	196924.1	147.5	mg/L	0.15	295.1	mg/L	0.30	0.10%
As 188.979†	90.4	0.07031	mg/L	0.002468	0.1406	mg/L	0.00494	3.51%
B 249.677†	32.0	0.00715	mg/L	0.000388	0.01430	mg/L	0.000776	5.43%
Ba 233.527†	2549.4	0.8638	mg/L	0.01026	1.728	mg/L	0.0205	1.19%
Be 313.042†	1950.3	0.00237	mg/L	0.000002	0.00473	mg/L	0.000005	0.10%
Ca 317.933†	679802.6	38.61	mg/L	0.068	77.22	mg/L	0.136	0.18%
Cd 228.802†	353.3	0.01012	mg/L	0.000110	0.02023	mg/L	0.000219	1.08%
Co 228.616†	3543.7	0.09246	mg/L	0.001187	0.1849	mg/L	0.00237	1.28%
Cr 267.716†	1076.7	0.1553	mg/L	0.00190	0.3107	mg/L	0.00381	1.23%
Cu 324.752†	90647.9	0.3786	mg/L	0.00495	0.7572	mg/L	0.00990	1.31%
Fe 273.955†	191862.7	209.5	mg/L	0.13	419.1	mg/L	0.26	0.06%
K 766.490†	6509.8	5.498	mg/L	0.0571	11.00	mg/L	0.114	1.04%
Mg 279.077†	42250.6	32.08	mg/L	0.027	64.15	mg/L	0.053	0.08%
Mn 257.610†	72075.0	2.632	mg/L	0.0026	5.264	mg/L	0.0052	0.10%
Mo 202.031†	22.5	0.00495	mg/L	0.000651	0.00991	mg/L	0.001301	13.13%
Na 589.592†	39943.2	6.544	mg/L	0.0100	13.09	mg/L	0.020	0.15%
Na 330.237†	142.0	6.243	mg/L	0.1602	12.49	mg/L	0.320	2.57%
Ni 231.604†	267.3	0.1502	mg/L	0.00274	0.3003	mg/L	0.00548	1.83%
Pb 220.353†	10261.2	1.375	mg/L	0.0241	2.750	mg/L	0.0482	1.75%
Sb 206.836†	18.5	0.02656	mg/L	0.002555	0.05312	mg/L	0.005110	9.62%
Se 196.026†	-66.8	-0.06187	mg/L	0.005145	-0.1237	mg/L	0.01029	8.32%
Si 288.158†	2162.2	1.549	mg/L	0.0127	3.097	mg/L	0.0254	0.82%
Sn 189.927†	-28.9	-0.00348	mg/L	0.000695	-0.00697	mg/L	0.001390	19.96%
Sr 421.552†	345053.4	0.5277	mg/L	0.00038	1.055	mg/L	0.0008	0.07%
Ti 334.903†	225491.6	9.397	mg/L	0.0036	18.79	mg/L	0.007	0.04%
Tl 190.801†	-13.6	-0.02351	mg/L	0.002689	-0.04703	mg/L	0.005378	11.44%
V 292.402†	130909.8	0.5232	mg/L	0.00735	1.046	mg/L	0.0147	1.40%
Zn 206.200†	1888.8	2.168	mg/L	0.0225	4.337	mg/L	0.0451	1.04%

Sequence No.: 22
Sample ID: JQ35 P SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 40
Date Collected: 8/1/2006 4:44:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 P SWC

Analyte	Back Pressure	Flow
All	198.0 kPa	0.50 L/min

Mean Data: JQ35 P SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1639996.3	106.8	%	0.14				0.13%
ScR 361.383	203429.2	111.7	%	0.84				0.76%
Ag 328.068†	-2398.4	0.00048	mg/L	0.000206	0.00097	mg/L	0.000413	42.58%
Al 308.215†	161443.2	120.9	mg/L	0.27	241.9	mg/L	0.54	0.22%
As 188.979†	70.7	0.04268	mg/L	0.001454	0.08536	mg/L	0.002908	3.41%
B 249.677†	27.1	0.00467	mg/L	0.001763	0.00934	mg/L	0.003526	37.73%
Ba 233.527†	1821.6	0.6118	mg/L	0.00476	1.224	mg/L	0.0095	0.78%
Be 313.042†	1730.1	0.00189	mg/L	0.000016	0.00377	mg/L	0.000032	0.86%
Ca 317.933†	786636.1	44.68	mg/L	0.053	89.36	mg/L	0.106	0.12%
Cd 228.802†	155.2	0.00306	mg/L	0.000104	0.00612	mg/L	0.000207	3.38%
Co 228.616†	4131.9	0.1062	mg/L	0.00024	0.2125	mg/L	0.00049	0.23%
Cr 267.716†	911.8	0.1339	mg/L	0.00061	0.2679	mg/L	0.00121	0.45%
Cu 324.752†	44653.5	0.1962	mg/L	0.00097	0.3924	mg/L	0.00194	0.50%
Fe 273.955†	204644.3	223.5	mg/L	1.13	447.0	mg/L	2.26	0.51%
K 766.490†	6021.2	5.085	mg/L	0.0149	10.17	mg/L	0.030	0.29%
Mg 279.077†	44119.0	33.49	mg/L	0.078	66.98	mg/L	0.155	0.23%
Mn 257.610†	67218.2	2.454	mg/L	0.0032	4.909	mg/L	0.0064	0.13%
Mo 202.031†	27.2	0.00485	mg/L	0.000387	0.00969	mg/L	0.000773	7.98%
Na 589.592†	43927.4	7.196	mg/L	0.0110	14.39	mg/L	0.022	0.15%
Na 330.237†	137.1	6.832	mg/L	0.1935	13.66	mg/L	0.387	2.83%
Ni 231.604†	293.3	0.1648	mg/L	0.00357	0.3296	mg/L	0.00715	2.17%
Pb 220.353†	5790.4	0.7833	mg/L	0.00651	1.567	mg/L	0.0130	0.83%
Sb 206.836†	14.0	0.02447	mg/L	0.001681	0.04894	mg/L	0.003361	6.87%
Se 196.026†	-70.5	-0.06496	mg/L	0.004179	-0.1299	mg/L	0.00836	6.43%
Si 288.158†	3066.6	2.196	mg/L	0.0130	4.393	mg/L	0.0260	0.59%
Sn 189.927†	-37.4	-0.00519	mg/L	0.001435	-0.01038	mg/L	0.002869	27.65%
Sr 421.552†	321371.3	0.4915	mg/L	0.00101	0.9830	mg/L	0.00202	0.21%
Ti 334.903†	280766.2	11.70	mg/L	0.023	23.40	mg/L	0.047	0.20%
Tl 190.801†	-18.3	-0.03046	mg/L	0.001824	-0.06093	mg/L	0.003647	5.99%
V 292.402†	149773.8	0.5977	mg/L	0.00437	1.195	mg/L	0.0087	0.73%
Zn 206.200†	1088.2	1.247	mg/L	0.0149	2.494	mg/L	0.0298	1.19%

Sequence No.: 23
Sample ID: CV 4
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/1/2006 4:51:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	198.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1568981.1	102.1	%	1.19				1.16%
ScR 361.383	196155.5	107.7	%	0.85				0.79%
Ag 328.068†	272122.2	0.9750	mg/L	0.00526	0.9750	mg/L	0.00526	0.54%
Al 308.215†	2683.8	1.974	mg/L	0.0248	1.974	mg/L	0.0248	1.26%
As 188.979†	1644.7	2.003	mg/L	0.0414	2.003	mg/L	0.0414	2.07%
B 249.677†	3048.6	0.9682	mg/L	0.00548	0.9682	mg/L	0.00548	0.57%
Ba 233.527†	2840.6	0.9791	mg/L	0.01102	0.9791	mg/L	0.01102	1.13%
Be 313.042†	608730.5	0.9942	mg/L	0.00383	0.9942	mg/L	0.00383	0.38%
Ca 317.933†	36559.5	2.076	mg/L	0.0068	2.076	mg/L	0.0068	0.33%
Cd 228.802†	28780.3	1.009	mg/L	0.0043	1.009	mg/L	0.0043	0.42%
Co 228.616†	31326.1	0.9824	mg/L	0.00622	0.9824	mg/L	0.00622	0.63%
Cr 267.716†	7101.2	0.9555	mg/L	0.00945	0.9555	mg/L	0.00945	0.99%
Cu 324.752†	255446.4	1.017	mg/L	0.0042	1.017	mg/L	0.0042	0.41%
Fe 273.955†	1878.1	2.049	mg/L	0.0206	2.049	mg/L	0.0206	1.01%
K 766.490†	23242.2	19.63	mg/L	0.061	19.63	mg/L	0.061	0.31%
Mg 279.077†	2710.5	2.072	mg/L	0.0211	2.072	mg/L	0.0211	1.02%
Mn 257.610†	26221.6	0.9584	mg/L	0.00334	0.9584	mg/L	0.00334	0.35%
Mo 202.031†	9237.9	1.006	mg/L	0.0027	1.006	mg/L	0.0027	0.27%
Na 589.592†	304983.9	49.96	mg/L	0.108	49.96	mg/L	0.108	0.22%
Na 330.237†	1505.3	50.62	mg/L	0.271	50.62	mg/L	0.271	0.54%
Ni 231.604†	1813.7	1.020	mg/L	0.0107	1.020	mg/L	0.0107	1.05%
Pb 220.353†	15239.0	2.002	mg/L	0.0017	2.002	mg/L	0.0017	0.08%
Sb 206.836†	1867.6	1.919	mg/L	0.0237	1.919	mg/L	0.0237	1.23%
Se 196.026†	2289.8	2.018	mg/L	0.0236	2.018	mg/L	0.0236	1.17%
Si 288.158†	2823.6	2.024	mg/L	0.0147	2.024	mg/L	0.0147	0.73%
Sn 189.927†	3586.0	0.9603	mg/L	0.01471	0.9603	mg/L	0.01471	1.53%
Sr 421.552†	639529.6	0.9781	mg/L	0.00395	0.9781	mg/L	0.00395	0.40%
Ti 334.903†	24201.4	1.007	mg/L	0.0049	1.007	mg/L	0.0049	0.48%
Tl 190.801†	1972.3	1.977	mg/L	0.0259	1.977	mg/L	0.0259	1.31%
V 292.402†	243660.2	0.9865	mg/L	0.00461	0.9865	mg/L	0.00461	0.47%
Zn 206.200†	911.5	1.048	mg/L	0.0073	1.048	mg/L	0.0073	0.69%

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

Autosampler Location: 1
Date Collected: 8/1/2006 4:58:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	197.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1601768.6	104.3	%	0.97				0.93%
ScR 361.383	194800.1	107.0	%	1.01				0.94%
Ag 328.068†	55.3	0.00020	mg/L	0.000180	0.00020	mg/L	0.000180	91.05%
Al 308.215†	29.4	0.02204	mg/L	0.008806	0.02204	mg/L	0.008806	39.96%
As 188.979†	-1.7	-0.00204	mg/L	0.003810	-0.00204	mg/L	0.003810	187.10%
B 249.677†	10.0	0.00316	mg/L	0.000692	0.00316	mg/L	0.000692	21.88%
Ba 233.527†	-1.4	-0.00049	mg/L	0.002155	-0.00049	mg/L	0.002155	437.99%
Be 313.042†	-31.7	-0.00005	mg/L	0.000013	-0.00005	mg/L	0.000013	25.14%
Ca 317.933†	28.1	0.00160	mg/L	0.000801	0.00160	mg/L	0.000801	50.13%
Cd 228.802†	-6.6	-0.00023	mg/L	0.000110	-0.00023	mg/L	0.000110	48.02%
Co 228.616†	4.6	0.00015	mg/L	0.000166	0.00015	mg/L	0.000166	113.43%
Cr 267.716†	-3.9	-0.00053	mg/L	0.000887	-0.00053	mg/L	0.000887	167.52%
Cu 324.752†	-22.2	-0.00009	mg/L	0.000132	-0.00009	mg/L	0.000132	149.35%
Fe 273.955†	-1.8	-0.00194	mg/L	0.002756	-0.00194	mg/L	0.002756	141.86%
K 766.490†	-21.7	-0.01837	mg/L	0.003434	-0.01837	mg/L	0.003434	18.69%
Mg 279.077†	-5.3	-0.00401	mg/L	0.009742	-0.00401	mg/L	0.009742	242.71%
Mn 257.610†	-0.9	-0.00003	mg/L	0.000065	-0.00003	mg/L	0.000065	190.08%
Mo 202.031†	1.4	0.00016	mg/L	0.000508	0.00016	mg/L	0.000508	326.43%
Na 589.592†	66.6	0.01092	mg/L	0.004440	0.01092	mg/L	0.004440	40.67%
Na 330.237†	2.5	0.08491	mg/L	0.761704	0.08491	mg/L	0.761704	897.04%
Ni 231.604†	3.0	0.00167	mg/L	0.004100	0.00167	mg/L	0.004100	246.03%
Pb 220.353†	5.2	0.00069	mg/L	0.000610	0.00069	mg/L	0.000610	88.35%
Sb 206.836†	3.9	0.00406	mg/L	0.001575	0.00406	mg/L	0.001575	38.80%
Se 196.026†	6.0	0.00529	mg/L	0.000480	0.00529	mg/L	0.000480	9.08%
Si 288.158†	4.3	0.00306	mg/L	0.004984	0.00306	mg/L	0.004984	163.03%
Sn 189.927†	2.3	0.00062	mg/L	0.000530	0.00062	mg/L	0.000530	85.26%
Sr 421.552†	72.3	0.00011	mg/L	0.000060	0.00011	mg/L	0.000060	54.20%
Ti 334.903†	-4.7	-0.00020	mg/L	0.001739	-0.00020	mg/L	0.001739	878.78%
Tl 190.801†	3.9	0.00390	mg/L	0.003199	0.00390	mg/L	0.003199	82.01%
V 292.402†	50.0	0.00020	mg/L	0.000074	0.00020	mg/L	0.000074	37.51%
Zn 206.200†	1.8	0.00204	mg/L	0.002641	0.00204	mg/L	0.002641	129.70%

Sequence No.: 25
Sample ID: JR03 MB SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 41
Date Collected: 8/1/2006 5:04:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JR03 MB SWC

Analyte	Back Pressure	Flow
All	197.0 kPa	0.50 L/min

Mean Data: JR03 MB SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1618286.3	105.4	%	0.70				0.66%
ScR 361.383	197199.4	108.3	%	0.54				0.50%
Ag 328.068†	37.7	0.00014	mg/L	0.000074	0.00027	mg/L	0.000148	54.63%
Al 308.215†	71.8	0.05376	mg/L	0.008291	0.1075	mg/L	0.01658	15.42%
As 188.979†	-3.1	-0.00384	mg/L	0.003991	-0.00768	mg/L	0.007983	103.92%
B 249.677†	13.3	0.00420	mg/L	0.001810	0.00841	mg/L	0.003620	43.07%
Ba 233.527†	1.6	0.00055	mg/L	0.000369	0.00110	mg/L	0.000737	66.82%
Be 313.042†	-54.8	-0.00009	mg/L	0.000034	-0.00018	mg/L	0.000069	38.32%
Ca 317.933†	1302.1	0.07395	mg/L	0.000593	0.1479	mg/L	0.00119	0.80%
Cd 228.802†	-7.3	-0.00025	mg/L	0.000040	-0.00051	mg/L	0.000080	15.77%
Co 228.616†	4.0	0.00012	mg/L	0.000196	0.00025	mg/L	0.000392	158.63%
Cr 267.716†	-6.4	-0.00086	mg/L	0.000348	-0.00172	mg/L	0.000696	40.53%
Cu 324.752†	-17.4	-0.00007	mg/L	0.000238	-0.00014	mg/L	0.000476	344.07%
Fe 273.955†	5.4	0.00591	mg/L	0.002710	0.01181	mg/L	0.005421	45.90%
K 766.490†	-67.2	-0.05680	mg/L	0.023695	-0.1136	mg/L	0.04739	41.72%
Mg 279.077†	12.1	0.00924	mg/L	0.012750	0.01848	mg/L	0.025500	137.97%
Mn 257.610†	0.1	0.00000	mg/L	0.000043	0.00000	mg/L	0.000086	>999.9%
Mo 202.031†	0.1	0.00002	mg/L	0.000470	0.00003	mg/L	0.000940	>999.9%
Na 589.592†	111.1	0.01819	mg/L	0.003509	0.03639	mg/L	0.007017	19.28%
Na 330.237†	-5.4	-0.1844	mg/L	0.53222	-0.3687	mg/L	1.06445	288.68%
Ni 231.604†	-2.6	-0.00146	mg/L	0.001843	-0.00292	mg/L	0.003685	126.07%
Pb 220.353†	-5.0	-0.00064	mg/L	0.000396	-0.00129	mg/L	0.000791	61.51%
Sb 206.836†	2.9	0.00297	mg/L	0.001725	0.00595	mg/L	0.003451	58.02%
Se 196.026†	6.3	0.00553	mg/L	0.004679	0.01105	mg/L	0.009358	84.68%
Si 288.158†	8.2	0.00586	mg/L	0.003490	0.01171	mg/L	0.006981	59.59%
Sn 189.927†	-1.6	-0.00040	mg/L	0.001234	-0.00081	mg/L	0.002467	304.94%
Sr 421.552†	358.7	0.00055	mg/L	0.000057	0.00110	mg/L	0.000114	10.40%
Ti 334.903†	20.7	0.00086	mg/L	0.000446	0.00172	mg/L	0.000892	51.78%
Tl 190.801†	3.0	0.00303	mg/L	0.002974	0.00605	mg/L	0.005948	98.24%
V 292.402†	19.8	0.00007	mg/L	0.000107	0.00015	mg/L	0.000213	145.93%
Zn 206.200†	7.4	0.00855	mg/L	0.000805	0.01711	mg/L	0.001611	9.42%

Sequence No.: 26
Sample ID: JQ35 D SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 42
Date Collected: 8/1/2006 5:11:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JQ35 D SWC

Analyte	Back Pressure	Flow
All	196.0 kPa	0.50 L/min

Mean Data: JQ35 D SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1606272.3	104.6	%	0.52				0.50%
ScR 361.383	196551.5	107.9	%	1.18				1.09%
Ag 328.068†	-678.2	0.00317	mg/L	0.000186	0.01586	mg/L	0.000932	5.88%
Al 308.215†	104344.8	78.17	mg/L	0.102	390.9	mg/L	0.51	0.13%
As 188.979†	41.0	0.03205	mg/L	0.004228	0.1603	mg/L	0.02114	13.19%
B 249.677†	14.2	0.00345	mg/L	0.001489	0.01727	mg/L	0.007446	43.12%
Ba 233.527†	1069.4	0.3586	mg/L	0.00219	1.793	mg/L	0.0110	0.61%
Be 313.042†	882.1	0.00104	mg/L	0.000025	0.00521	mg/L	0.000123	2.37%
Ca 317.933†	293035.3	16.64	mg/L	0.071	83.22	mg/L	0.356	0.43%
Cd 228.802†	256.7	0.00754	mg/L	0.000094	0.03768	mg/L	0.000470	1.25%
Co 228.616†	1528.6	0.03947	mg/L	0.000531	0.1974	mg/L	0.00265	1.34%
Cr 267.716†	761.5	0.1106	mg/L	0.00073	0.5531	mg/L	0.00363	0.66%
Cu 324.752†	51176.8	0.2161	mg/L	0.00285	1.080	mg/L	0.0143	1.32%
Fe 273.955†	127529.2	139.3	mg/L	0.48	696.4	mg/L	2.42	0.35%
K 766.490†	2786.9	2.354	mg/L	0.0222	11.77	mg/L	0.111	0.95%
Mg 279.077†	20494.0	15.53	mg/L	0.074	77.66	mg/L	0.372	0.48%
Mn 257.610†	44838.0	1.638	mg/L	0.0037	8.188	mg/L	0.0185	0.23%
Mo 202.031†	38.1	0.00551	mg/L	0.000240	0.02754	mg/L	0.001200	4.36%
Na 589.592†	13195.0	2.162	mg/L	0.0067	10.81	mg/L	0.033	0.31%
Na 330.237†	44.2	1.857	mg/L	0.1322	9.285	mg/L	0.6610	7.12%
Ni 231.604†	144.1	0.08097	mg/L	0.001697	0.4048	mg/L	0.00848	2.10%
Pb 220.353†	13062.5	1.729	mg/L	0.0310	8.646	mg/L	0.1552	1.80%
Sb 206.836†	10.8	0.01362	mg/L	0.001435	0.06808	mg/L	0.007175	10.54%
Se 196.026†	-39.8	-0.03693	mg/L	0.005796	-0.1847	mg/L	0.02898	15.69%
Si 288.158†	1149.0	0.8230	mg/L	0.00465	4.115	mg/L	0.0233	0.57%
Sn 189.927†	-7.1	0.00000	mg/L	0.001362	0.00000	mg/L	0.006810	>999.9%
Sr 421.552†	130705.0	0.1999	mg/L	0.00032	0.9995	mg/L	0.00159	0.16%
Ti 334.903†	90501.1	3.771	mg/L	0.0130	18.86	mg/L	0.065	0.34%
Tl 190.801†	-7.5	-0.01158	mg/L	0.001701	-0.05790	mg/L	0.008505	14.69%
V 292.402†	63695.6	0.2552	mg/L	0.00395	1.276	mg/L	0.0198	1.55%
Zn 206.200†	1472.8	1.691	mg/L	0.0119	8.457	mg/L	0.0595	0.70%

Sequence No.: 27
Sample ID: JR03 A SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 43
Date Collected: 8/1/2006 5:17:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JR03 A SWC

Analyte	Back Pressure	Flow
All	197.0 kPa	0.50 L/min

Mean Data: JR03 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1595068.5	103.8	%	0.93				0.90%
ScR 361.383	196519.3	107.9	%	0.06				0.06%
Ag 328.068†	-2074.1	-0.00064	mg/L	0.000102	-0.00129	mg/L	0.000204	15.82%
Al 308.215†	149784.5	112.2	mg/L	0.23	224.4	mg/L	0.45	0.20%
As 188.979†	69.4	0.05733	mg/L	0.002015	0.1147	mg/L	0.00403	3.51%
B 249.677†	62.5	0.01842	mg/L	0.001426	0.03683	mg/L	0.002852	7.74%
Ba 233.527†	689.3	0.2254	mg/L	0.00091	0.4508	mg/L	0.00183	0.40%
Be 313.042†	1320.8	0.00162	mg/L	0.000005	0.00324	mg/L	0.000010	0.32%
Ca 317.933†	598882.9	34.01	mg/L	0.029	68.03	mg/L	0.058	0.09%
Cd 228.802†	30.0	0.00073	mg/L	0.000034	-0.00147	mg/L	0.000069	4.68%
Co 228.616†	2350.2	0.06143	mg/L	0.000402	0.1229	mg/L	0.00080	0.65%
Cr 267.716†	1827.5	0.2484	mg/L	0.00086	0.4967	mg/L	0.00171	0.34%
Cu 324.752†	38586.9	0.1678	mg/L	0.00099	0.3356	mg/L	0.00199	0.59%
Fe 273.955†	154308.3	168.5	mg/L	0.74	337.0	mg/L	1.47	0.44%
K 766.490†	8896.5	7.514	mg/L	0.0022	15.03	mg/L	0.004	0.03%
Mg 279.077†	88195.7	67.16	mg/L	0.115	134.3	mg/L	0.23	0.17%
Mn 257.610†	54528.5	1.990	mg/L	0.0051	3.980	mg/L	0.0101	0.25%
Mo 202.031†	40.8	0.00534	mg/L	0.000023	0.01068	mg/L	0.000045	0.43%
Na 589.592†	14172.2	2.322	mg/L	0.0077	4.643	mg/L	0.0153	0.33%
Na 330.237†	30.3	2.106	mg/L	0.1301	4.213	mg/L	0.2603	6.18%
Ni 231.604†	463.3	0.2603	mg/L	0.00316	0.5205	mg/L	0.00632	1.21%
Pb 220.353†	205.8	0.04898	mg/L	0.000179	0.09796	mg/L	0.000358	0.37%
Sb 206.836†	10.6	0.01323	mg/L	0.005257	0.02647	mg/L	0.010514	39.72%
Se 196.026†	-61.3	-0.05630	mg/L	0.005808	-0.1126	mg/L	0.01162	10.32%
Si 288.158†	3179.4	2.277	mg/L	0.0189	4.555	mg/L	0.0378	0.83%
Sn 189.927†	-36.9	-0.00678	mg/L	0.001842	-0.01356	mg/L	0.003683	27.16%
Sr 421.552†	117845.6	0.1802	mg/L	0.00035	0.3605	mg/L	0.00070	0.19%
Ti 334.903†	142878.1	5.954	mg/L	0.0098	11.91	mg/L	0.020	0.16%
Tl 190.801†	-10.2	-0.01653	mg/L	0.001966	-0.03306	mg/L	0.003931	11.89%
V 292.402†	85984.7	0.3448	mg/L	0.00230	0.6897	mg/L	0.00460	0.67%
Zn 206.200†	357.1	0.4068	mg/L	0.00391	0.8136	mg/L	0.00783	0.96%

Sequence No.: 28
Sample ID: JR03 B SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 44
Date Collected: 8/1/2006 5:24:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JR03 B SWC

Analyte	Back Pressure	Flow
All	198.0 kPa	0.50 L/min

Mean Data: JR03 B SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1613931.4	105.1	%	0.60				0.57%
ScR 361.383	201005.2	110.4	%	0.84				0.76%
Ag 328.068†	-2116.8	-0.00057	mg/L	0.000069	-0.00115	mg/L	0.000139	12.09%
Al 308.215†	140320.5	105.1	mg/L	0.79	210.3	mg/L	1.58	0.75%
As 188.979†	74.8	0.06441	mg/L	0.007778	0.1288	mg/L	0.01556	12.08%
B 249.677†	74.2	0.02213	mg/L	0.003339	0.04425	mg/L	0.006678	15.09%
Ba 233.527†	692.4	0.2260	mg/L	0.00120	0.4521	mg/L	0.00240	0.53%
Be 313.042†	1301.8	0.00159	mg/L	0.000005	0.00317	mg/L	0.000010	0.31%
Ca 317.933†	810324.5	46.02	mg/L	0.044	92.05	mg/L	0.087	0.10%
Cd 228.802†	26.6	-0.00092	mg/L	0.000044	-0.00184	mg/L	0.000089	4.80%
Co 228.616†	2303.9	0.06012	mg/L	0.000174	0.1202	mg/L	0.00035	0.29%
Cr 267.716†	1643.6	0.2247	mg/L	0.00101	0.4495	mg/L	0.00201	0.45%
Cu 324.752†	32944.7	0.1459	mg/L	0.00095	0.2919	mg/L	0.00190	0.65%
Fe 273.955†	159466.1	174.2	mg/L	0.69	348.3	mg/L	1.37	0.39%
K 766.490†	7749.2	6.545	mg/L	0.0476	13.09	mg/L	0.095	0.73%
Mg 279.077†	82117.2	62.52	mg/L	0.649	125.0	mg/L	1.30	1.04%
Mn 257.610†	56677.2	2.069	mg/L	0.0103	4.137	mg/L	0.0205	0.50%
Mo 202.031†	39.8	0.00518	mg/L	0.000615	0.01037	mg/L	0.001230	11.86%
Na 589.592†	16036.2	2.627	mg/L	0.0114	5.254	mg/L	0.0229	0.44%
Na 330.237†	37.7	2.192	mg/L	0.3128	4.385	mg/L	0.6256	14.27%
Ni 231.604†	454.5	0.2554	mg/L	0.00318	0.5107	mg/L	0.00636	1.24%
Pb 220.353†	149.3	0.04018	mg/L	0.000192	0.08036	mg/L	0.000384	0.48%
Sb 206.836†	13.0	0.01581	mg/L	0.005771	0.03162	mg/L	0.011542	36.50%
Se 196.026†	-58.1	-0.05356	mg/L	0.006934	-0.1071	mg/L	0.01387	12.95%
Si 288.158†	1999.2	1.432	mg/L	0.0085	2.864	mg/L	0.0171	0.60%
Sn 189.927†	-50.3	-0.00805	mg/L	0.000606	-0.01610	mg/L	0.001212	7.53%
Sr 421.552†	128614.5	0.1967	mg/L	0.00045	0.3934	mg/L	0.00090	0.23%
Ti 334.903†	137336.4	5.723	mg/L	0.0125	11.45	mg/L	0.025	0.22%
Tl 190.801†	-19.8	-0.02602	mg/L	0.001813	-0.05204	mg/L	0.003626	6.97%
V 292.402†	86406.7	0.3465	mg/L	0.00363	0.6929	mg/L	0.00726	1.05%
Zn 206.200†	339.5	0.3865	mg/L	0.00280	0.7731	mg/L	0.00561	0.73%

Sequence No.: 29
Sample ID: JR04 A SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 45
Date Collected: 8/1/2006 5:31:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JR04 A SWC

Analyte	Back Pressure	Flow
All	199.0 kPa	0.50 L/min

Mean Data: JR04 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1612484.7	105.0	%	0.63				0.60%
ScR 361.383	202618.0	111.3	%	0.69				0.62%
Ag 328.068†	-1344.4	0.00192	mg/L	0.000273	0.00384	mg/L	0.000545	14.19%
Al 308.215†	150313.6	112.6	mg/L	0.39	225.2	mg/L	0.77	0.34%
As 188.979†	69.0	0.05409	mg/L	0.006034	0.1082	mg/L	0.01207	11.15%
B 249.677†	165.9	0.05105	mg/L	0.002202	0.1021	mg/L	0.00440	4.31%
Ba 233.527†	1067.4	0.3559	mg/L	0.00358	0.7117	mg/L	0.00716	1.01%
Be 313.042†	1252.7	0.00144	mg/L	0.000035	0.00289	mg/L	0.000069	2.40%
Ca 317.933†	845403.3	48.02	mg/L	0.162	96.03	mg/L	0.324	0.34%
Cd 228.802†	92.9	0.00150	mg/L	0.000098	0.00299	mg/L	0.000196	6.54%
Co 228.616†	2252.3	0.05723	mg/L	0.000288	0.1145	mg/L	0.00058	0.50%
Cr 267.716†	2066.5	0.2807	mg/L	0.00263	0.5614	mg/L	0.00525	0.94%
Cu 324.752†	122051.0	0.5000	mg/L	0.00225	0.9999	mg/L	0.00451	0.45%
Fe 273.955†	153095.1	167.2	mg/L	0.63	334.4	mg/L	1.26	0.38%
K 766.490†	10372.0	8.760	mg/L	0.1119	17.52	mg/L	0.224	1.28%
Mg 279.077†	85107.8	64.80	mg/L	0.091	129.6	mg/L	0.18	0.14%
Mn 257.610†	55331.6	2.019	mg/L	0.0092	4.039	mg/L	0.0184	0.46%
Mo 202.031†	234.8	0.02653	mg/L	0.000647	0.05306	mg/L	0.001293	2.44%
Na 589.592†	33518.8	5.491	mg/L	0.0332	10.98	mg/L	0.066	0.61%
Na 330.237†	130.1	5.466	mg/L	0.1233	10.93	mg/L	0.247	2.26%
Ni 231.604†	586.8	0.3297	mg/L	0.00250	0.6594	mg/L	0.00501	0.76%
Pb 220.353†	1956.5	0.2787	mg/L	0.00133	0.5573	mg/L	0.00265	0.48%
Sb 206.836†	12.0	0.01509	mg/L	0.003633	0.03017	mg/L	0.007266	24.08%
Se 196.026†	-59.8	-0.05507	mg/L	0.001316	-0.1101	mg/L	0.00263	2.39%
Si 288.158†	8481.1	6.074	mg/L	0.0489	12.15	mg/L	0.098	0.80%
Sn 189.927†	37.6	0.01551	mg/L	0.000144	0.03103	mg/L	0.000288	0.93%
Sr 421.552†	174968.4	0.2676	mg/L	0.00099	0.5352	mg/L	0.00198	0.37%
Ti 334.903†	158735.6	6.615	mg/L	0.0324	13.23	mg/L	0.065	0.49%
Tl 190.801†	-16.7	-0.02370	mg/L	0.003005	-0.04740	mg/L	0.006010	12.68%
V 292.402†	96191.8	0.3858	mg/L	0.00274	0.7716	mg/L	0.00548	0.71%
Zn 206.200†	488.9	0.5586	mg/L	0.00343	1.117	mg/L	0.0069	0.61%

Sequence No.: 30
Sample ID: JR04 B SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 46
Date Collected: 8/1/2006 5:38:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JR04 B SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.50 L/min

Mean Data: JR04 B SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1632618.7	106.3	%	0.82				0.77%
ScR 361.383	205004.4	112.6	%	1.21				1.08%
Ag 328.068†	-1152.9	0.00413	mg/L	0.000102	0.00826	mg/L	0.000203	2.46%
Al 308.215†	180223.4	135.0	mg/L	0.18	270.0	mg/L	0.37	0.14%
As 188.979†	89.1	0.07295	mg/L	0.008707	0.1459	mg/L	0.01741	11.94%
B 249.677†	370.4	0.1157	mg/L	0.00025	0.2315	mg/L	0.00050	0.22%
Ba 233.527†	1161.2	0.3855	mg/L	0.00062	0.7710	mg/L	0.00124	0.16%
Be 313.042†	1633.1	0.00193	mg/L	0.000001	0.00386	mg/L	0.000003	0.07%
Ca 317.933†	840477.8	47.74	mg/L	0.067	95.47	mg/L	0.133	0.14%
Cd 228.802†	248.0	0.00655	mg/L	0.000134	0.01311	mg/L	0.000267	2.04%
Co 228.616†	2819.9	0.07216	mg/L	0.000829	0.1443	mg/L	0.00166	1.15%
Cr 267.716†	2955.5	0.4000	mg/L	0.00168	0.8000	mg/L	0.00336	0.42%
Cu 324.752†	140713.1	0.5773	mg/L	0.00102	1.155	mg/L	0.0020	0.18%
Fe 273.955†	186751.7	204.0	mg/L	1.11	407.9	mg/L	2.22	0.54%
K 766.490†	17339.0	14.64	mg/L	0.071	29.29	mg/L	0.142	0.48%
Mg 279.077†	113205.0	86.21	mg/L	0.288	172.4	mg/L	0.58	0.33%
Mn 257.610†	60112.1	2.194	mg/L	0.0048	4.387	mg/L	0.0096	0.22%
Mo 202.031†	559.2	0.06187	mg/L	0.000771	0.1237	mg/L	0.00154	1.25%
Na 589.592†	104898.6	17.18	mg/L	0.012	34.37	mg/L	0.023	0.07%
Na 330.237†	468.3	17.14	mg/L	0.284	34.27	mg/L	0.568	1.66%
Ni 231.604†	724.0	0.4067	mg/L	0.00240	0.8134	mg/L	0.00479	0.59%
Pb 220.353†	3640.5	0.5041	mg/L	0.00352	1.008	mg/L	0.0070	0.70%
Sb 206.836†	15.6	0.01868	mg/L	0.002651	0.03737	mg/L	0.005302	14.19%
Se 196.026†	-71.7	-0.06573	mg/L	0.002936	-0.1315	mg/L	0.00587	4.47%
Si 288.158†	10406.6	7.453	mg/L	0.1038	14.91	mg/L	0.208	1.39%
Sn 189.927†	138.4	0.04154	mg/L	0.000409	0.08307	mg/L	0.000817	0.98%
Sr 421.552†	185936.7	0.2844	mg/L	0.00033	0.5688	mg/L	0.00067	0.12%
Ti 334.903†	192287.7	8.013	mg/L	0.0040	16.03	mg/L	0.008	0.05%
Tl 190.801†	-18.6	-0.02702	mg/L	0.009324	-0.05404	mg/L	0.018649	34.51%
V 292.402†	118067.4	0.4740	mg/L	0.00135	0.9479	mg/L	0.00271	0.29%
Zn 206.200†	709.4	0.8114	mg/L	0.00501	1.623	mg/L	0.0100	0.62%

Sequence No.: 31
Sample ID: JR04 C SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 47
Date Collected: 8/1/2006 5:44:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JR04 C SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.50 L/min

Mean Data: JR04 C SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1603800.3	104.4	%	0.52				0.50%
ScR 361.383	201652.3	110.7	%	0.30				0.27%
Ag 328.068†	-1126.3	0.00195	mg/L	0.000186	0.00390	mg/L	0.000371	9.52%
Al 308.215†	141362.4	105.9	mg/L	0.28	211.8	mg/L	0.57	0.27%
As 188.979†	62.5	0.04542	mg/L	0.006347	0.09085	mg/L	0.012694	13.97%
B 249.677†	136.2	0.04141	mg/L	0.001617	0.08282	mg/L	0.003233	3.90%
Ba 233.527†	870.6	0.2894	mg/L	0.00265	0.5787	mg/L	0.00531	0.92%
Be 313.042†	1283.1	0.00152	mg/L	0.000024	0.00303	mg/L	0.000048	1.59%
Ca 317.933†	826988.9	46.97	mg/L	0.169	93.94	mg/L	0.337	0.36%
Cd 228.802†	111.5	0.00236	mg/L	0.000055	0.00471	mg/L	0.000109	2.31%
Co 228.616†	2315.4	0.05855	mg/L	0.000368	0.1171	mg/L	0.00074	0.63%
Cr 267.716†	1965.3	0.2660	mg/L	0.00032	0.5319	mg/L	0.00064	0.12%
Cu 324.752†	68436.8	0.2845	mg/L	0.00143	0.5690	mg/L	0.00287	0.50%
Fe 273.955†	135594.5	148.1	mg/L	1.06	296.2	mg/L	2.13	0.72%
K 766.490†	10418.0	8.799	mg/L	0.0573	17.60	mg/L	0.115	0.65%
Mg 279.077†	81756.9	62.26	mg/L	0.166	124.5	mg/L	0.33	0.27%
Mn 257.610†	47929.3	1.749	mg/L	0.0065	3.498	mg/L	0.0129	0.37%
Mo 202.031†	197.2	0.02235	mg/L	0.000834	0.04471	mg/L	0.001667	3.73%
Na 589.592†	34958.2	5.727	mg/L	0.0309	11.45	mg/L	0.062	0.54%
Na 330.237†	126.7	5.501	mg/L	0.1057	11.00	mg/L	0.211	1.92%
Ni 231.604†	575.9	0.3235	mg/L	0.00408	0.6471	mg/L	0.00815	1.26%
Pb 220.353†	1803.8	0.2574	mg/L	0.00089	0.5149	mg/L	0.00179	0.35%
Sb 206.836†	14.2	0.01795	mg/L	0.003109	0.03590	mg/L	0.006217	17.32%
Se 196.026†	-53.8	-0.04940	mg/L	0.006233	-0.09880	mg/L	0.012466	12.62%
Si 288.158†	6672.5	4.779	mg/L	0.0260	9.558	mg/L	0.0520	0.54%
Sn 189.927†	23.3	0.01148	mg/L	0.000304	0.02297	mg/L	0.000608	2.65%
Sr 421.552†	165153.8	0.2526	mg/L	0.00081	0.5052	mg/L	0.00161	0.32%
Ti 334.903†	172674.5	7.196	mg/L	0.0179	14.39	mg/L	0.036	0.25%
Tl 190.801†	-15.8	-0.02324	mg/L	0.003753	-0.04649	mg/L	0.007506	16.15%
V 292.402†	92307.0	0.3698	mg/L	0.00181	0.7395	mg/L	0.00361	0.49%
Zn 206.200†	498.7	0.5704	mg/L	0.00171	1.141	mg/L	0.0034	0.30%

Sequence No.: 32
Sample ID: JR05 N SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 48
Date Collected: 8/1/2006 5:51:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JR05 N SWC

Analyte	Back Pressure	Flow
All	200.0 kPa	0.50 L/min

Mean Data: JR05 N SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1647589.0	107.3	%	0.71				0.67%
ScR 361.383	209607.2	115.1	%	0.64				0.56%
Ag 328.068†	-2644.9	-0.00053	mg/L	0.000055	-0.00107	mg/L	0.000109	10.24%
Al 308.215†	200977.5	150.6	mg/L	0.34	301.1	mg/L	0.68	0.23%
As 188.979†	238.2	0.2534	mg/L	0.00738	0.5068	mg/L	0.01476	2.91%
B 249.677†	125.9	0.03827	mg/L	0.001129	0.07654	mg/L	0.002257	2.95%
Ba 233.527†	1555.5	0.5200	mg/L	0.00467	1.040	mg/L	0.0093	0.90%
Be 313.042†	1593.5	0.00190	mg/L	0.000020	0.00380	mg/L	0.000041	1.07%
Ca 317.933†	1346777.5	76.49	mg/L	0.139	153.0	mg/L	0.28	0.18%
Cd 228.802†	99.3	0.00084	mg/L	0.000118	0.00167	mg/L	0.000237	14.17%
Co 228.616†	3017.3	0.07924	mg/L	0.001005	0.1585	mg/L	0.00201	1.27%
Cr 267.716†	2271.2	0.3111	mg/L	0.00287	0.6222	mg/L	0.00575	0.92%
Cu 324.752†	351736.5	1.420	mg/L	0.0009	2.840	mg/L	0.0019	0.07%
Fe 273.955†	205516.5	224.4	mg/L	0.56	448.9	mg/L	1.11	0.25%
K 766.490†	10980.1	9.273	mg/L	0.0265	18.55	mg/L	0.053	0.29%
Mg 279.077†	96075.7	73.13	mg/L	0.118	146.3	mg/L	0.24	0.16%
Mn 257.610†	87484.9	3.194	mg/L	0.0057	6.387	mg/L	0.0114	0.18%
Mo 202.031†	566.8	0.06335	mg/L	0.000791	0.1267	mg/L	0.00158	1.25%
Na 589.592†	40268.8	6.597	mg/L	0.0283	13.19	mg/L	0.057	0.43%
Na 330.237†	161.2	6.335	mg/L	0.1076	12.67	mg/L	0.215	1.70%
Ni 231.604†	502.6	0.2824	mg/L	0.00154	0.5648	mg/L	0.00309	0.55%
Pb 220.353†	2768.7	0.3921	mg/L	0.00430	0.7841	mg/L	0.00861	1.10%
Sb 206.836†	49.8	0.05435	mg/L	0.002064	0.1087	mg/L	0.00413	3.80%
Se 196.026†	-69.4	-0.06484	mg/L	0.019209	-0.1297	mg/L	0.03842	29.63%
Si 288.158†	5118.7	3.666	mg/L	0.0009	7.332	mg/L	0.0018	0.02%
Sn 189.927†	48.0	0.02305	mg/L	0.001768	0.04611	mg/L	0.003536	7.67%
Sr 421.552†	379234.8	0.5800	mg/L	0.00128	1.160	mg/L	0.0026	0.22%
Ti 334.903†	176656.4	7.362	mg/L	0.0147	14.72	mg/L	0.029	0.20%
Tl 190.801†	-25.1	-0.03289	mg/L	0.005763	-0.06577	mg/L	0.011526	17.52%
V 292.402†	111916.0	0.4490	mg/L	0.00130	0.8981	mg/L	0.00261	0.29%
Zn 206.200†	867.1	0.9927	mg/L	0.00866	1.985	mg/L	0.0173	0.87%

Sequence No.: 33
Sample ID: JR05 O SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 49
Date Collected: 8/1/2006 5:58:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JR05 O SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.50 L/min

Mean Data: JR05 O SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1666458.1	108.5	%	0.21				0.19%
ScR 361.383	204911.5	112.5	%	0.83				0.74%
Ag 328.068†	-2054.5	-0.00052	mg/L	0.000166	-0.00105	mg/L	0.000332	31.60%
Al 308.215†	161398.1	120.9	mg/L	0.28	241.8	mg/L	0.56	0.23%
As 188.979†	87.8	0.07549	mg/L	0.002941	0.1510	mg/L	0.00588	3.90%
B 249.677†	79.9	0.02373	mg/L	0.002591	0.04745	mg/L	0.005183	10.92%
Ba 233.527†	814.5	0.2686	mg/L	0.00317	0.5371	mg/L	0.00634	1.18%
Be 313.042†	1450.8	0.00175	mg/L	0.000050	0.00350	mg/L	0.000099	2.83%
Ca 317.933†	741463.3	42.11	mg/L	0.015	84.23	mg/L	0.029	0.03%
Cd 228.802†	78.3	0.00094	mg/L	0.000120	0.00188	mg/L	0.000240	12.81%
Co 228.616†	2580.3	0.06684	mg/L	0.000316	0.1337	mg/L	0.00063	0.47%
Cr 267.716†	2268.5	0.3084	mg/L	0.00379	0.6169	mg/L	0.00757	1.23%
Cu 324.752†	54182.2	0.2296	mg/L	0.00176	0.4593	mg/L	0.00352	0.77%
Fe 273.955†	153878.1	168.1	mg/L	0.23	336.1	mg/L	0.46	0.14%
K 766.490†	10643.4	8.989	mg/L	0.0195	17.98	mg/L	0.039	0.22%
Mg 279.077†	82504.4	62.82	mg/L	0.020	125.6	mg/L	0.04	0.03%
Mn 257.610†	45664.6	1.666	mg/L	0.0007	3.332	mg/L	0.0014	0.04%
Mo 202.031†	86.5	0.01061	mg/L	0.000168	0.02121	mg/L	0.000336	1.58%
Na 589.592†	18668.1	3.058	mg/L	0.0073	6.116	mg/L	0.0147	0.24%
Na 330.237†	48.7	2.921	mg/L	0.1966	5.843	mg/L	0.3933	6.73%
Ni 231.604†	513.6	0.2885	mg/L	0.00671	0.5770	mg/L	0.01342	2.33%
Pb 220.353†	274.2	0.05970	mg/L	0.000751	0.1194	mg/L	0.00150	1.26%
Sb 206.836†	16.5	0.01951	mg/L	0.002516	0.03901	mg/L	0.005032	12.90%
Se 196.026†	-60.0	-0.05485	mg/L	0.004277	-0.1097	mg/L	0.00855	7.80%
Si 288.158†	7709.2	5.521	mg/L	0.0445	11.04	mg/L	0.089	0.81%
Sn 189.927†	-12.3	0.00113	mg/L	0.000818	0.00226	mg/L	0.001636	72.33%
Sr 421.552†	140232.7	0.2145	mg/L	0.00029	0.4290	mg/L	0.00057	0.13%
Ti 334.903†	170221.3	7.094	mg/L	0.0044	14.19	mg/L	0.009	0.06%
Tl 190.801†	-18.6	-0.02610	mg/L	0.004510	-0.05221	mg/L	0.009020	17.28%
V 292.402†	98591.0	0.3953	mg/L	0.00304	0.7907	mg/L	0.00609	0.77%
Zn 206.200†	411.4	0.4694	mg/L	0.00662	0.9388	mg/L	0.01323	1.41%

Sequence No.: 34
Sample ID: JR03 REF SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 50
Date Collected: 8/1/2006 6:05:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JR03 REF SWC

Analyte	Back Pressure	Flow
All	201.0 kPa	0.50 L/min

Mean Data: JR03 REF SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1635449.5	106.5	%	1.17				1.10%
ScR 361.383	202340.5	111.1	%	0.69				0.62%
Ag 328.068†	286968.8	1.033	mg/L	0.0029	2.066	mg/L	0.0057	0.28%
Al 308.215†	113834.3	85.27	mg/L	0.285	170.5	mg/L	0.57	0.33%
As 188.979†	789.2	0.9446	mg/L	0.00471	1.889	mg/L	0.0094	0.50%
B 249.677†	2005.6	0.6352	mg/L	0.00334	1.270	mg/L	0.0067	0.53%
Ba 233.527†	4358.1	1.493	mg/L	0.0085	2.987	mg/L	0.0170	0.57%
Be 313.042†	300771.5	0.4902	mg/L	0.00150	0.9805	mg/L	0.00299	0.30%
Ca 317.933†	655294.0	37.22	mg/L	0.130	74.44	mg/L	0.260	0.35%
Cd 228.802†	15132.2	0.5291	mg/L	0.00755	1.058	mg/L	0.0151	1.43%
Co 228.616†	23090.9	0.7183	mg/L	0.01068	1.437	mg/L	0.0214	1.49%
Cr 267.716†	4790.3	0.6486	mg/L	0.00564	1.297	mg/L	0.0113	0.87%
Cu 324.752†	206747.6	0.8344	mg/L	0.00195	1.669	mg/L	0.0039	0.23%
Fe 273.955†	114371.6	124.9	mg/L	0.60	249.8	mg/L	1.20	0.48%
K 766.490†	25868.5	21.85	mg/L	0.042	43.69	mg/L	0.085	0.19%
Mg 279.077†	37439.3	28.47	mg/L	0.043	56.94	mg/L	0.085	0.15%
Mn 257.610†	119950.5	4.381	mg/L	0.0195	8.763	mg/L	0.0389	0.44%
Mo 202.031†	2000.6	0.2191	mg/L	0.00364	0.4383	mg/L	0.00728	1.66%
Na 589.592†	13670.9	2.240	mg/L	0.0111	4.479	mg/L	0.0223	0.50%
Na 330.237†	59.3	1.826	mg/L	0.1316	3.652	mg/L	0.2632	7.21%
Ni 231.604†	935.3	0.5257	mg/L	0.00445	1.051	mg/L	0.0089	0.85%
Pb 220.353†	8684.6	1.157	mg/L	0.0197	2.314	mg/L	0.0394	1.70%
Sb 206.836†	448.2	0.4674	mg/L	0.00959	0.9348	mg/L	0.01918	2.05%
Se 196.026†	1123.2	0.9855	mg/L	0.01444	1.971	mg/L	0.0289	1.47%
Si 288.158†	5781.5	4.142	mg/L	0.0398	8.283	mg/L	0.0796	0.96%
Sn 189.927†	3335.0	0.8958	mg/L	0.01395	1.792	mg/L	0.0279	1.56%
Sr 421.552†	335095.1	0.5125	mg/L	0.00166	1.025	mg/L	0.0033	0.32%
Ti 334.903†	73429.1	3.060	mg/L	0.0124	6.119	mg/L	0.0247	0.40%
Tl 190.801†	1697.7	1.697	mg/L	0.0246	3.394	mg/L	0.0492	1.45%
V 292.402†	279961.8	1.129	mg/L	0.0018	2.258	mg/L	0.0036	0.16%
Zn 206.200†	2078.6	2.389	mg/L	0.0188	4.777	mg/L	0.0376	0.79%

Sequence No.: 35
Sample ID: CV 7
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 8/1/2006 6:11:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	201.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1621954.4	105.6	%	1.16				1.10%
ScR 361.383	198735.4	109.1	%	0.51				0.47%
Ag 328.068†	269391.4	0.9652	mg/L	0.00897	0.9652	mg/L	0.00897	0.93%
Al 308.215†	2639.3	1.941	mg/L	0.0022	1.941	mg/L	0.0022	0.12%
As 188.979†	1646.1	2.005	mg/L	0.0118	2.005	mg/L	0.0118	0.59%
B 249.677†	2988.5	0.9491	mg/L	0.00185	0.9491	mg/L	0.00185	0.19%
Ba 233.527†	2755.2	0.9496	mg/L	0.00348	0.9496	mg/L	0.00348	0.37%
Be 313.042†	595191.2	0.9721	mg/L	0.00095	0.9721	mg/L	0.00095	0.10%
Ca 317.933†	35890.8	2.038	mg/L	0.0038	2.038	mg/L	0.0038	0.18%
Cd 228.802†	28485.5	0.9982	mg/L	0.00912	0.9982	mg/L	0.00912	0.91%
Co 228.616†	31042.9	0.9736	mg/L	0.00872	0.9736	mg/L	0.00872	0.90%
Cr 267.716†	6922.0	0.9314	mg/L	0.00523	0.9314	mg/L	0.00523	0.56%
Cu 324.752†	252466.1	1.005	mg/L	0.0089	1.005	mg/L	0.0089	0.89%
Fe 273.955†	1833.6	2.000	mg/L	0.0150	2.000	mg/L	0.0150	0.75%
K 766.490†	23046.6	19.46	mg/L	0.032	19.46	mg/L	0.032	0.17%
Mg 279.077†	2648.1	2.024	mg/L	0.0118	2.024	mg/L	0.0118	0.58%
Mn 257.610†	25605.5	0.9359	mg/L	0.00209	0.9359	mg/L	0.00209	0.22%
Mo 202.031†	9210.5	1.003	mg/L	0.0115	1.003	mg/L	0.0115	1.15%
Na 589.592†	302061.9	49.48	mg/L	0.087	49.48	mg/L	0.087	0.18%
Na 330.237†	1474.8	49.60	mg/L	0.593	49.60	mg/L	0.593	1.20%
Ni 231.604†	1759.7	0.9897	mg/L	0.00639	0.9897	mg/L	0.00639	0.65%
Pb 220.353†	15179.1	1.994	mg/L	0.0247	1.994	mg/L	0.0247	1.24%
Sb 206.836†	1869.8	1.922	mg/L	0.0164	1.922	mg/L	0.0164	0.85%
Se 196.026†	2296.4	2.024	mg/L	0.0164	2.024	mg/L	0.0164	0.81%
Si 288.158†	2775.4	1.989	mg/L	0.0206	1.989	mg/L	0.0206	1.04%
Sn 189.927†	3589.3	0.9612	mg/L	0.00812	0.9612	mg/L	0.00812	0.84%
Sr 421.552†	631472.4	0.9658	mg/L	0.00081	0.9658	mg/L	0.00081	0.08%
Ti 334.903†	23780.3	0.9898	mg/L	0.00116	0.9898	mg/L	0.00116	0.12%
Tl 190.801†	1970.5	1.975	mg/L	0.0199	1.975	mg/L	0.0199	1.01%
V 292.402†	241669.3	0.9783	mg/L	0.01000	0.9783	mg/L	0.01000	1.02%
Zn 206.200†	882.0	1.014	mg/L	0.0120	1.014	mg/L	0.0120	1.19%

Sequence No.: 36
Sample ID: CB 7
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/1/2006 6:18:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	201.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1672493.8	108.9	%	0.32				0.29%
ScR 361.383	203372.3	111.7	%	1.34				1.20%
Ag 328.068†	106.2	0.00038	mg/L	0.000145	0.00038	mg/L	0.000145	38.06%
Al 308.215†	4.8	0.00362	mg/L	0.007681	0.00362	mg/L	0.007681	212.25%
As 188.979†	-1.6	-0.00198	mg/L	0.002168	-0.00198	mg/L	0.002168	109.48%
B 249.677†	16.4	0.00520	mg/L	0.001513	0.00520	mg/L	0.001513	29.07%
Ba 233.527†	1.4	0.00047	mg/L	0.000933	0.00047	mg/L	0.000933	198.36%
Be 313.042†	-98.9	-0.00016	mg/L	0.000057	-0.00016	mg/L	0.000057	35.22%
Ca 317.933†	9.2	0.00052	mg/L	0.000718	0.00052	mg/L	0.000718	137.32%
Cd 228.802†	-4.3	-0.00015	mg/L	0.000061	-0.00015	mg/L	0.000061	41.11%
Co 228.616†	9.1	0.00029	mg/L	0.000167	0.00029	mg/L	0.000167	58.18%
Cr 267.716†	3.6	0.00048	mg/L	0.000229	0.00048	mg/L	0.000229	47.66%
Cu 324.752†	-105.5	-0.00042	mg/L	0.000191	-0.00042	mg/L	0.000191	45.39%
Fe 273.955†	-2.7	-0.00297	mg/L	0.003669	-0.00297	mg/L	0.003669	123.71%
K 766.490†	-67.7	-0.05721	mg/L	0.051237	-0.05721	mg/L	0.051237	89.56%
Mg 279.077†	-10.0	-0.00759	mg/L	0.002727	-0.00759	mg/L	0.002727	35.92%
Mn 257.610†	0.1	0.00000	mg/L	0.000079	0.00000	mg/L	0.000079	>999.9%
Mo 202.031†	3.9	0.00042	mg/L	0.000150	0.00042	mg/L	0.000150	35.29%
Na 589.592†	140.7	0.02304	mg/L	0.002857	0.02304	mg/L	0.002857	12.40%
Na 330.237†	-16.6	-0.5599	mg/L	0.11401	-0.5599	mg/L	0.11401	20.36%
Ni 231.604†	3.2	0.00178	mg/L	0.000115	0.00178	mg/L	0.000115	6.46%
Pb 220.353†	-1.8	-0.00023	mg/L	0.000602	-0.00023	mg/L	0.000602	261.90%
Sb 206.836†	1.2	0.00122	mg/L	0.001948	0.00122	mg/L	0.001948	159.57%
Se 196.026†	8.4	0.00741	mg/L	0.001414	0.00741	mg/L	0.001414	19.09%
Si 288.158†	7.2	0.00514	mg/L	0.003685	0.00514	mg/L	0.003685	71.67%
Sn 189.927†	3.0	0.00080	mg/L	0.000226	0.00080	mg/L	0.000226	28.21%
Sr 421.552†	113.7	0.00017	mg/L	0.000091	0.00017	mg/L	0.000091	52.52%
Ti 334.903†	3.1	0.00013	mg/L	0.000993	0.00013	mg/L	0.000993	773.75%
Tl 190.801†	6.6	0.00659	mg/L	0.000195	0.00659	mg/L	0.000195	2.96%
V 292.402†	-10.9	-0.00004	mg/L	0.000143	-0.00004	mg/L	0.000143	354.18%
Zn 206.200†	0.8	0.00095	mg/L	0.002682	0.00095	mg/L	0.002682	282.18%

endpkg

Metals Prep Logs

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ35

prepared
by

Analytical Resources, Inc.

Digestion Log

Analyst: DM
Matrix: Soil

Date: 7-28-06
Block Temp: 90°C

ARI Sample ID	Btl #	pH<2	Prep Code: SWC Initial Wt (g) ~~Vol (mL)~~	Prep Code: SWC Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
JQ36 A	2	—	1.062	50.0			
" ADUP	2	—	1.066				
" ASPK	2	—	1.059				
" B	2	—	1.048				
" C	2	—	1.031				
" D	3	—	1.086				
" E	2	—	1.073				
" F	3	—	1.008				
" G	2	—	1.079				
" H	2	—	1.078				
" I	2	—	1.040				
" J	2	—	1.017				
" K	2	—	1.052				
" L	2	—	1.004				
" M	2	—	1.046				
" N	2	—	1.072				
" O	2	—	1.066				
" P	3	—	1.065				
" MB1	—	—	—				
" MB1SPK	—	—	—	50.0			
				7-28-06 DM			

Chemical/Reagent ID:
HNO_3: MP989 | I2853
HCl: I2854
H_2O_2: I2962

Digestion Log

Analyst: DM
Matrix: Soil
Date: 7-28-06
Block Temp: 90°c

ARI Sample ID	Btl #	pH<2	Prep Code: SWC Initial Wt (g) ~~Vol (mL)~~	Prep Code: SWC Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
JQ35 A	2	—	1.062	50.0			
" ADUP	2	—	1.066				
" ASPK	2	—	1.059				
" B	2	—	1.048				
" C	2	—	1.031				
" D	3	—	1.086				
" E	2	—	1.073				
" F	3	—	1.008				
" G	2	—	1.079				
" H	2	—	1.078				
" I	2	—	1.040				
" J	2	—	1.017				
" K	2	—	1.052				
" L	2	—	1.004				
" M	2	—	1.046				
" N	2	—	1.072				
" O	2	—	1.066				
" P	3	—	1.065				
" MBI	—	—	—				
" MBISPK	—	—	—	50.0			
				7-28-06 DM			

Chemical/Reagent ID:
HNO_3: MP989 | I2853
HCl: I2854
H_2O_2: I2962

Total Solids

Oven in:
Analyst: DM Date: 7-31-06 Time: 1030 Temp: 101°C

Oven out:
Analyst: DM Date: 8-01-06 Time: 0735 Temp: 102°C

ARI Sample ID		Tare Weight (g)	Tare + Sample Wet (g)	Tare + Sample Dry (g)	Comments
JQ35	A	0.994	10.547	6.093	
"	B	0.965	10.291	6.164	
"	C	0.974	10.611	6.617	
"	D	1.034	10.755	6.400	
"	E	1.022	10.807	6.519	
"	F	1.066	10.215	6.546	
"	G	1.017	10.563	7.367	
"	H	1.003	10.138	5.708	
"	I	1.012	10.198	6.104	
"	J	1.009	10.422	6.410	
"	K	1.017	10.151	6.199	
"	L	1.042	10.542	8.496	
"	M	0.999	10.836	5.938	
"	N	1.006	10.717	8.028	
"	O	0.973	10.548	7.530	
"	P	1.018	10.903	9.188	
JQ52	A	0.982	10.321	6.085	
"	B	1.019	10.724	6.929	
"	C	1.015	10.415	5.756	
"	D	1.004	10.609	8.848	
			7-31-06 DM		

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SPIKING LOG

Analyst: DM

Date: 8-04-06

Final Volume 50

Final Volume (Hg):

Sample ID JQ52R ASPK, MBISPK

JQ55R ASPK, MBISPK

		Prepcode:	SWL		
		Spike Solution:	ICP Routine	ICP No GFA	GFA
		Standard No.:	2261-1		
		Vol Added (mL):	1.0		
STOCK CONCENTRATION	Ag		50		2.0
	Al		200	200	
	As		200		10
	Ba		200	200	
	Be		50	50	
	Ca		1000	1000	
	Cd		50		2.0
	Co		50	50	
	Cr		50	50	
	Cu		50	50	
	Fe		200	200	
	K		1000	1000	
	Mg		1000	1000	
	Mn		50	50	
	Na		1000	1000	
	Ni		50	50	
	Pb		200		10
	Se		200		10
	Sr		50	50	
	Tl		200		10
	V		50	50	
	Zn		50	50	

	ICP-MS #1	ICP-MS #2	ICP-MS Minerals
Ag	25		
Al			500
As	25		
Ba	25		
Be	25		
Ca			500
Cd	25		
Co	25		
Cr	25		
Cu	25		
Fe			500
K			500
Mg			500
Mn	25		
Mo		25	
Na			500
Ni	25		
Pb	25		
Sb		25	
Se	80		
Th	25		
U	25		
V	25		
Zn	80		

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg		CVA	1.0		
Hg MBSPK		CVA	1.0		
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

1429

5033F

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SPIKING LOG

Analyst: DM

Date: 7-28-06

Final Volume 50

Final Volume (Hg):

Sample ID JQ52 ASPK, MBSPK

~~JQ35 ASPK, MBSPK~~

	Prepcode:	SWL		
	Spike Solution:	ICP Routine	ICP No GFA	GFA
	Standard No.:	2261-1		
	Vol Added (mL):	1.0		
STOCK CONCENTRATION	Ag	50		2.0
	Al	200	200	
	As	200		10
	Ba	200	200	
	Be	50	50	
	Ca	1000	1000	
	Cd	50		2.0
	Co	50	50	
	Cr	50	50	
	Cu	50	50	
	Fe	200	200	
	K	1000	1000	
	Mg	1000	1000	
	Mn	50	50	
	Na	1000	1000	
	Ni	50	50	
	Pb	200 ✓		10
	Se	200		10
	Sr	50	50	
	Tl	200		10
	V	50	50	
	Zn	50 ✓	50	

	ICP-MS #1	ICP-MS #2	ICP-MS Minerals
Ag	25		
Al			500
As	25		
Ba	25		
Be	25		
Ca			500
Cd	25		
Co	25		
Cr	25		
Cu	25		
Fe			500
K			500
Mg			500
Mn	25		
Mo		25	
Na			500
Ni	25		
Pb	25		
Sb		25	
Se	80		
Th	25		
U	25		
V	25		
Zn	80		

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg		CVA	1.0		
Hg MBSPK		CVA	1.0		
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

1430

5033F

Digestion Log

Analyst: DM

Matrix: Soil

Date: 8-04-06

Block Temp: 92°C

ARI Sample ID	Btl #	pH<2	Prep Code: SMC Initial Wt (g) ~~Vol (mL)~~	Prep Code: SMC Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
JQ35R A	1	—	1.020	50.0			
" ADUP	1	—	1.022				
" ASPK	1	—	1.019				
" MBI	—	—	—				
" MBISPK	—	—	—				
JQ52R A	1	—	1.026				
" ADUP	1	—	1.026				
" ASPK	1	—	1.029				
" B	1	—	1.084				
" C	1	—	1.053				
" D	1	—	1.027				
" MBI	—	—	—				
" MBISPK	—	—	—	50.0			
			8.4.06 DM				

Chemical/Reagent ID:

HNO_3: MP994 | I2853

HCl: I2854

H_2O_2: I2982

ANALYTICAL
RESOURCES
INCORPORATED

ANALYST NOTES - Metals

ARI Job No: JQ35 Client Name: Anchor

Parameter: ICP Zn Client Project: _____

☐ Job OK, no corrective action required

MB Zn 0.00057 mg/L

Samples > 10X

Analyst: _____ Date Analyzed: 8.1.06

5048F

Rev. 4
04/18/95

ANALYTICAL
RESOURCES
INCORPORATED

CORRECTIVE ACTIONS - Inorganic Analyses

Criteria Flagged

ARI Project No.: JQ35R Client Name: Anchor

Date of Out-of-Control Event: 8.7.06 Method/Element: ICP

Unacceptable Blank	✓	Prep Code: SWC
Unacceptable Duplicate		
Unacceptable Spike	✓	Other:
Unacceptable Reference		

Details of Problem/Recommended Corrective Action:

JQ35R MB1 Zn .024 - run twice
Sample 710x

JQ35R Asph Zn 132%R - rerun 161%R

Samples Affected: A Adup Asph

Corrective Action Taken:

Sample non-homogneous

Analyst: [signature] Supervisor: [signature]

Date: 8.8.06 Date: 8/8/06

5049F

Rev. 6
10/28/02

ANALYTICAL
RESOURCES
INCORPORATED

CORRECTIVE ACTIONS - Inorganic Analyses

Criteria Flagged

ARI Project No.: JQ35 Client Name: Anchor

Date of Out-of-Control Event: 8.1.06 Method/Element: ICP Zn

Unacceptable Blank	
Unacceptable Duplicate	
Unacceptable Spike	✓
Unacceptable Reference	

Prep Code: SWC

Other:

Details of Problem/Recommended Corrective Action:

Zn Aqk 240% Rec. see attached

Samples Affected:

Corrective Action Taken: A, ADUP, Aqk

Redo A, ASPK, ADUP, MB, MBSPK SWC PB, Zn

Analyst: Date: 8.1.06

Supervisor: Date: 8/2/06

5049F

Rev. 6
10/28/02

General Chemistry Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ35

prepared
by

Analytical Resources, Inc.

METHOD BLANK RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	07/24/06	Percent	< 0.01 U
	07/24/06		< 0.01 U
Total Organic Carbon	07/25/06	Percent	< 0.020 U
	07/26/06		< 0.020 U

LAB CONTROL RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	07/25/06	Percent	0.534	0.500	106.8%
	07/26/06		0.524	0.500	104.8%

STANDARD REFERENCE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon	07/25/06	Percent	3.07	3.35	91.6%
NIST #8704	07/26/06		2.97	3.35	88.7%

REPLICATE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 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: JQ35D Client ID: T4-S3-02-F					
Total Solids	07/24/06	Percent	54.50	54.80 54.50	0.3%
Total Organic Carbon	07/25/06	Percent	1.98	2.00 2.04	1.5%

MS/MSD RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 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: JQ35D Client ID: T4-S3-02-F						
Total Organic Carbon	07/25/06	Percent	1.98	4.99	2.11	142.7%

General Chemistry Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ35

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by

Analytical Resources, Inc.

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-C
ARI ID: 06-12956 JQ35A

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	53.50
Total Organic Carbon	07/25/06 072506#1	Plumb,1981	Percent	0.020	2.04

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-D
ARI ID: 06-12957 JQ35B

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	56.20
Total Organic Carbon	07/25/06 072506#1	Plumb,1981	Percent	0.020	1.94

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-E
ARI ID: 06-12958 JQ35C

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	58.60
Total Organic Carbon	07/25/06 072506#1	Plumb,1981	Percent	0.020	2.10

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/21/06

Client ID: T4-S3-02-F
ARI ID: 06-12959 JQ35D

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	54.50
Total Organic Carbon	07/25/06 072506#1	Plumb,1981	Percent	0.020	1.98

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-03-B
ARI ID: 06-12960 JQ35E

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	56.20
Total Organic Carbon	07/25/06 072506#1	Plumb,1981	Percent	0.020	1.88

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-03-C
ARI ID: 06-12961 JQ35F

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	59.90
Total Organic Carbon	07/25/06 072506#1	Plumb,1981	Percent	0.020	1.86

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: JMB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-03-D
ARI ID: 06-12962 JQ35G

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	66.80
Total Organic Carbon	07/25/06 072506#1	Plumb,1981	Percent	0.020	1.56

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-05-E
ARI ID: 06-12963 JQ35H

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	52.80
Total Organic Carbon	07/25/06 072506#1	Plumb,1981	Percent	0.020	1.95

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-05-F
ARI ID: 06-12964 JQ35I

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	56.40
Total Organic Carbon	07/25/06 072506#1	Plumb,1981	Percent	0.020	2.26

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: NB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-05-G
ARI ID: 06-12965 JQ35J

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	56.80
Total Organic Carbon	07/25/06 072506#1	Plumb,1981	Percent	0.020	2.00

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-05-H
ARI ID: 06-12966 JQ35K

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	56.20
Total Organic Carbon	07/25/06 072506#1	Plumb,1981	Percent	0.020	2.48

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-05-J
ARI ID: 06-12967 JQ35L

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	80.80
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	0.503

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-06-A
ARI ID: 06-12968 JQ35M

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	42.40
Total Organic Carbon	07/25/06 072506#1	Plumb,1981	Percent	0.020	1.83

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MP
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/20/06
Date Received: 07/21/06

Client ID: T4-S3-06-B
ARI ID: 06-12969 JQ35N

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	78.10
Total Organic Carbon	07/25/06 072506#1	Plumb,1981	Percent	0.020	0.154

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: [signature]
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-08-B
ARI ID: 06-12970 JQ35O

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	68.50
Total Organic Carbon	07/25/06 072506#1	Plumb,1981	Percent	0.020	1.87

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
JQ35-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MB
Reported: 07/31/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/21/06

Client ID: T4-S3-08-C
ARI ID: 06-12971 JQ35P

Analyte	Date	Method	Units	RL	Sample
Total Solids	07/24/06 072406#2	EPA 160.3	Percent	0.01	83.00
Total Organic Carbon	07/26/06 072606#1	Plumb,1981	Percent	0.020	0.196

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: JQ35

prepared
by

Analytical Resources, Inc.

JQ35

(W)
7-25-06

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 7/24/2006

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

ANALYST: KE (A)

Batch drying time	*TS (%) calculated as:*	*TVS (mg/kg dry wt) calculated as:*
record times as mm/dd/yy hh:mm	*Final dry wt (g) = (Dry Wt - Tare Wt)*	*Final ash wt (g) = (min ash wt - tare wt)*
7/24/2006 12:38 time in oven	*TS = (Final Dry Wt)/ (grams Sample-Tare)*	*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*
7/25/2006 9:24 time out		*if ash wt > dry wt, "Chk for Err"*
elapsed hrs = 20.8		*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)
Cal Date -->		7/24/2006	7/24/2006	7/25/2006										
Time & Initials -->		11:00 KE	10:34 KE	9:42 KE										
Cal Wt (g) 10.0000		10.0001	10.0000	9.9994										
record weights to 4 places		*Cal OK!*	*Cal OK!*	*Cal OK!*										
Blank			1.0162	1.0158			0.00							
JQ35 A2		6.1529	1.0352	3.7727			2.74	**53.5%**						
JQ35 B2		6.3498	1.0250	4.0195			2.99	**56.2%**						
JQ35 C2		6.5302	1.0157	4.2484			3.23	**58.6%**						
JQ35 D3		6.2322	1.0370	3.8659			2.83	**54.5%**						
JQ35 D3 dup		6.9729	1.0344	4.2868			3.25	**54.8%**						
							RPD =	0.58%				RPD =	NA	
JQ35 D3 trp		6.5068	1.0292	4.0156			2.99	**54.5%**						
							RSD =	0.30%				RSD =	NA	
JQ35 E2		6.0533	1.0177	3.8466			2.83	**56.2%**						
JQ35 F3		6.9286	1.0180	4.5561			3.54	**59.9%**						
JQ35 G2		6.7699	1.0184	4.8626			3.84	**66.8%**						
JQ35 H2		6.9308	1.0068	4.1363			3.13	**52.8%**						
JQ35 I 2		6.3797	1.0001	4.0329			3.03	**56.4%**						
JQ35 J 2		6.1100	1.0211	3.9105			2.89	**56.8%**						
JQ35 K2		6.8681	1.0161	4.3067			3.29	**56.2%**						
JQ35 L2		6.4609	1.0018	5.4101			4.41	**80.8%**						
JQ35 M2		6.0648	1.0095	3.1541			2.14	**42.4%**						
JQ35 N2		6.2932	1.0096	5.1352			4.13	**78.1%**						
JQ35 O2		6.7013	1.0135	4.9082			3.89	**68.5%**						
JQ35 P3		6.5335	1.0058	5.5957			4.59	**83.0%**						
JQ33 A2		6.1502	0.9921	3.8064			2.81	**54.6%**						
JQ33 B2		6.6922	1.0119	3.9699			2.96	**52.1%**						

1459

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 7/24/2006

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

ANALYST: KE (A)

Batch drying time	*TS (%) calculated as:*	*TVS (mg/kg dry wt) calculated as:*
record times as mm/dd/yy hh:mm	*Final dry wt (g) = (Dry Wt - Tare Wt)*	*Final ash wt (g) = (min ash wt - tare wt)*
7/24/2006 12:38 time in oven	*TS = (Final Dry Wt)/ (grams Sample-Tare)*	*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*
7/25/2006 9:24 time out		*if ash wt > dry wt, "Chk for Err"*
elapsed hrs = 20.8		*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)
JQ33 C2		6.4874	1.0204	3.9225			2.90	**53.1%**						
JQ33 D3		6.0450	1.0244	3.5821			2.56	**50.9%**						
JQ33 D3 dup		6.2189	1.0135	3.6778			2.66	**51.2%**						
							RPD =	0.47%				RPD =	NA	
JQ33 D3 trp		6.3545	1.0060	3.7522			2.75	**51.3%**						
							RSD =	0.39%				RSD =	NA	
Blank			1.0150	1.0156			0.00							
JQ33 E2		6.4498	1.0209	3.8095			2.79	**51.4%**						
JQ33 F2		6.4831	1.0168	3.8806			2.86	**52.4%**						
JQ33 G2		6.6639	1.0080	3.9950			2.99	**52.8%**						
JQ33 H2		6.2409	1.0233	3.7337			2.71	**51.9%**						
JQ33 I 2		6.3998	0.9934	3.7652			2.77	**51.3%**						
JQ33 J 2		6.4922	1.0367	3.7348			2.70	**49.5%**						
JQ33 K2		6.8359	1.0510	4.2707			3.22	**55.7%**						
JQ33 L2		6.3069	1.0379	3.8374			2.80	**53.1%**						
JQ33 M2		6.5905	1.0069	3.9625			2.96	**52.9%**						
JQ33 N2		6.1520	1.0117	3.8862			2.87	**55.9%**						
JQ33 O2		6.4451	1.0234	4.2091			3.19	**58.8%**						
JQ33 P2		6.2408	1.0256	3.9389			2.91	**55.9%**						
JQ33 Q2		6.7156	1.0022	4.2893			3.29	**57.5%**						
JQ28 A1		6.9371	1.0200	5.5676			4.55	**76.9%**						
JQ28 A1 dup		6.2525	1.0108	5.0178			4.01	**76.4%**						
							RPD =	0.54%				RPD =	NA	
JQ28 A1 trp		6.9070	0.9946	5.4941			4.50	**76.1%**						
							RSD =	0.49%				RSD =	NA	
JQ19 A1		6.6416	1.0168	4.5160			3.50	**62.2%**						
JQ19 A1 dup		6.2295	0.9964	4.2302			3.23	**61.8%**						

1460

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 7/24/2006

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

ANALYST: KE (A)

Batch drying time			*TS (%) calculated as:*						*TVS (mg/kg dry wt) calculated as:*				
record times as mm/dd/yy hh:mm			*Final dry wt (g) = (Dry Wt - Tare Wt)*						*Final ash wt (g) = (min ash wt - tare wt)*				
7/24/2006 12:38 time in oven			*TS = (Final Dry Wt)/ (grams Sample-Tare)*						*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*				
7/25/2006 9:24 time out									*if ash wt > dry wt, "Chk for Err"*				
elapsed hrs = 20.8									*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*				
SAMPLE	DISH	SAMPLE	TARE WT	DRY WT 104C (grams)			dry Wt	TS	ASH WT 550C (grams)			Ash Wt	TVS
ID	#	(grams)	(grams)	1			(g)	(%)	1	2	3	(g)	(mg/kg) (%)
							RPD =	0.67%				RPD =	NA
JQ19 A1 trp		6.7825	1.0365	4.9226			3.89	**67.6%**					
							RSD =	5.10%				RSD =	NA

1461

(D)(W) 7-24-06

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

DATE: 7-24-06

ANALYST: (W) (A) 12:38

Batch drying time

record times as mm/dd/yy hh:mm

7-24-06 (W) time in oven 12:38

7-25-06 time out 9:24

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*

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)
Cal Date -->		7-24-06	7-24-06	7-25-06										
Time & Initials -->		11:00 (A)	10:34 (W)	9:42 (A)										
Cal Wt (g) 10.0000		10.0001	10.0000	9.9994										
record weights to 4 places		0 (D)												
Blank	1	~~6.1529~~	1.0162	1.0158										
JQ35 A2	2	6.1529	1.0352	3.7737										
B2	3	6.3498	1.0250	4.0195										
C2	4	6.5302	1.0157	4.2484										
D3	5	6.2322	1.0370	~~38~~ (D)	38659									
DPD3	6	6.9729	1.0344	4.2868										
DPD3	7	6.5068	1.0292	4.0156										
E2	8	6.0533	1.0177	3.8466										
F3	9	6.9286	1.0180	4.5561										
G2	10	6.7699	1.0184	4.8626										
H2	11	6.9308	1.0068	4.1363										
I2	12	6.3797	1.0001	4.0329										
J2	13	6.1100	1.0211	3.9105										
K2	14	6.8681	1.0161	4.3067										
L2	15	6.4609	1.0018	5.4101										
M2	16	6.0648	1.0095	3.1541										
N2	17	6.2932	1.0096	5.1352										
O2	18	6.7013	1.0135	4.9082										
P3	19	6.5335	1.0058	5.5957										
JQ33 A2	20	6.1502	1.0021	3.8064										
B2	21	6.6922	1.0119	3.9699										
C2	22	6.4874	1.0204	3.9225										
D3	23	6.0450	1.0244	3.5821										

1462

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 7-24-06

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

ANALYST: (W)(A) 12:38

Batch drying time	TS (%) calculated as:	TVS (mg/kg dry wt) calculated as:
record times as mm/dd/yy hh:mm	Final dry wt (g) = (Dry Wt - Tare Wt) Cont.	Final ash wt (g) = (min ash wt - tare wt)
7-24-06 (W) time in oven 12:38	TS = (Final Dry Wt)/ (grams Sample-Tare)	TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000
7-25-06 (W) time out 9:24		if ash wt > dry wt, "Chk for Err"
elapsed hrs = 0.0 < 12 hr		if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)
Cal Date -->		7-24-06	7-24-06	7-25-06										
Time & Initials -->		11:00 (W)	10:34 (W)	9:42 (W)										
Cal Wt (g) 10.0000		10.0001	10.0000	9.9994										
record weights to 4 places														
JQ33 Blank RD3	24	6.2189	1.0135	3.6778										
↓ RD1	25	6.3545	1.0060	3.7522										
Blank	26	0	1.0158	1.0156										
JQ33 E2	27	6.4498	1.0209	3.8095										
F2	28	6.4831	1.0168	3.8806										
G2	29	6.6639	1.0080	3.9950										
H2	30	6.2409	1.0233	3.7337										
I2	31	6.3998	0.9934	3.7652										
J2	32	6.4922	1.0367	3.7348										
K2	33	6.8359	1.0510	4.2207										
L2	34	6.3069	1.0379	3.8314										
M2	35	6.5905	1.0069	3.9625										
N2	36	6.1580	1.0117	3.8862										
O2	37	6.4457	1.0234	4.2091										
P2	38	6.2408	1.0256	3.9389										
↓ Q2	39	6.7156	1.0022	4.2893										
JQ28 A1	40	6.9371	1.0200	5.5676										
DP A1	41	6.2525	1.0108	5.0178										
↓ RA1	42	6.9070	0.9946	5.4941										
JQ19 A1	43	6.6416	1.0168	4.5160										
DP A1	44	6.2295	0.9961	4.2303										
↓ RA1	45	6.7825	1.0365	4.9226										
							7-24-06 (W)							

1453

JQ35

(lw)
7-26-06

TOC Solids Prep Log

DATE: 7/24/2006
ANALYST: KE 13:24 (A)

acid purging to remove IC and drying at 70°C for TOC analysis
General notes regarding prep method and samples (identify the acid used)

make no entry to shaded cells, they are calculated

Sample ID ARI #	Client	IC Test + / -	Gravimetric Data (grams) Tare Wt.	Wet wt.	70°C dry wt	% Solids	Sample description & notes (homogeneity and exclusions)
Blank			13.0495		13.0498	0.3 mg	
JQ35 A2		-	13.1351	18.5091	16.1635	56.35%	
JQ35 B2		-	13.1749	18.8120	16.4996	58.98%	
JQ35 C2		-	13.0411	18.5861	16.4426	61.34%	
JQ35 D3		-	13.2142	18.9058	16.4864	57.49%	
JQ35 D3 DUP		-	13.1882	18.1899	16.0754	57.72%	
JQ35 D3 TRIP		-	13.0378	18.8962	16.3861	57.15%	
JQ35 E2		-	13.1361	18.8537	16.5232	59.24%	
JQ35 F3		-	13.0369	18.6819	16.5673	62.54%	
JQ35 G2		-	13.0987	18.3592	16.7603	69.61%	
JQ35 H2		-	13.1497	18.5207	16.1274	55.44%	
JQ35 I 2		-	13.1670	18.5387	16.3415	59.10%	
JQ35 J 2		-	13.0816	18.2775	16.1406	58.87%	
JQ35 K2		-	13.0212	18.1062	15.9814	58.21%	
JQ35 L2		+	13.2190	18.9768	18.1366	85.41%	
JQ35 M2		-	13.1911	18.1624	15.2089	40.59%	
JQ35 N2		-	13.0449	18.6069	17.4038	78.37%	
JQ35 O2		-	13.1722	18.0761	16.6936	71.81%	
JQ35 P3		+	13.1369	18.0740	17.6979	92.38%	
JQ33 A2		-	13.0762	18.7504	16.3199	57.17%	
JQ33 B2		-	13.1558	18.6799	16.2046	55.19%	
JQ33 C2		-	13.1019	18.8514	16.3168	55.92%	
JQ33 D3		-	13.1480	18.6135	16.0832	53.70%	
JQ33 D3 DUP		-	13.1565	18.5224	16.0476	53.88%	
JQ33 D3 TRIP		-	13.0912	18.3437	15.9203	53.86%	
Blank		-	13.0871		13.0874	0.3 mg	
JQ33 E2		-	13.1387	18.6969	16.1475	54.13%	
JQ33 F2		-	13.0670	18.5995	16.0523	53.96%	
JQ33 G2		-	13.0656	18.5442	16.0908	55.22%	
JQ33 H2		-	13.0086	18.4554	15.9794	54.54%	
JQ33 I 2		-	13.1138	18.6053	16.0898	54.19%	
JQ33 J 2		-	13.1319	18.5744	15.9632	52.02%	
JQ33 K2		-	13.0242	18.3913	16.1415	58.08%	
JQ33 L2		-	13.1270	18.4350	16.1061	56.12%	

Sample ID		IC Test	Gravimetric Data (grams)			%	*Sample description & notes*
ARI #	Client	+ / -	Tare Wt.	Wet wt.	70°C dry wt	Solids	*(homogeneity and exclusions)*
JQ33 M2		-	12.9900	18.3919	15.9804	55.36%	
JQ33 N2		-	13.1454	18.2828	16.1359	58.21%	
JQ33 O2		-	13.2043	18.7301	16.5860	61.20%	
JQ33 P2		-	13.1875	18.8104	16.4840	58.63%	
JQ33 Q2		-	13.0704	18.7997	16.5078	60.00%	
JQ28 A1		-	13.1495	18.9944	17.7849	79.31%	
JQ28 A1 DUP		-	13.1521	18.8489	17.6406	78.79%	
JQ28 A1 TRIP		-	13.1299	18.3601	17.2765	79.28%	

(P)(W) 7-25 06

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: 7-24-06
ANALYST: (N) (A) 1324

make no entry to shaded cells, they are calculated

Sample ID ARI #	Sample ID Client	IC Test +/-	Gravimetric Data (grams) Tare Wt.	Wet wt.	70°C dry wt	% Solids	Sample description & notes (homogeneity and exclusions)
Blank			13.0795	Ø	13.0798		
JQ35 A2		-	13.1351	18.5091	16.1635		Sediment
B2		-	13.1749	18.8120	16.4996		
C2		-	13.0411	18.5861	16.4426		
D3		-	13.2142	18.9058	16.2864		
dpD3		-	13.1882	18.1899	16.0754		
↓pD3		-	13.0378	18.8962	16.3861		
E2		-	13.1361	18.9537	16.4201	16.5232	
F3		-	13.0369	18.6819	16.5673		
G2		-	13.0987	18.3592	16.7603		
H2		-	13.1497	18.5207	16.1274		
I2		-	13.1670	18.5387	16.3415		
J2		-	13.0816	18.2775	16.1406		
K2		-	13.0212	18.1062	15.9814		↓
L2		++-	13.2190	18.9768	18.1366		Sandy Sediment
M2		-	13.1911	18.1624	15.2089		Very Wet Sediment
N2		-	13.0449	18.6069	17.4038		Sand Water
O2		-	13.1722	18.0761	16.6936		Sediment
P3		++-	13.1369	18.0740	17.6979		Sand
JQ33 A2		-	13.0162	18.7504	16.3199		Sediment
B2		-	13.1558	18.6799	16.2046		
C2		-	13.1019	18.8514	16.3168		
D3		-	13.1480	18.6135	16.0832		
pD3		-	13.1565	18.5224	16.0476		
↓pD3		-	13.0912	18.3437	15.9203		
Blank		-	13.0871	Ø	13.0874		
JQ33 E2		-	13.1387	18.6969	16.1475		
F2		-	13.0670	18.5995	16.0523		
G2		-	13.0656	18.5442	16.0908		
H2		-	13.0086	18.4554	15.9794		
I2		-	13.1138	18.6053	16.0898		
J2		-	13.1319	18.5744	15.9632		
K2		-	13.0242	18.3913	16.1415		
L2		-	13.1270	18.4350	16.1061		
M2		-	12.9900	18.3919	15.9804		

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Cont.

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: 7-24-06

ANALYST: (W) (A) 13:24

make no entry to shaded cells, they are calculated

Sample ID		IC Test	Gravimetric Data (grams)			%	Sample description & notes
ARI #	Client	+/-	Tare Wt.	Wet wt.	70°C dry wt	Solids	(homogeneity and exclusions)
~~Blank~~			7-24-06 (W)				
JQ33 N2		-	13.1454	18.2828	16.1359		Sediment
O2		-	13.2043	18.7301	16.5010	165860	Sediment w/Rubber mat
P2		-	13.1875	18.8104	16.4840		Sediment
↓ Q2		-	13.2004	18.7997	16.5078		Fine Sand + water
JQ28 A1		-	13.1495	18.9944	17.7849		
↓ DP A1		-	13.1521	18.8489	17.6406		
↓ LPA1		-	13.1299	18.3601	17.2765		

7-24-06 (W)

JQ35

7-26-06

TOC, Solids Data Analysis

Mode: NPOC *Inlet:* Boat

Spike Std = 2,000 *ppm C*

DATE:	7/25/2006
ANALYST:	KE 12:36

Calibration Data

Calibration Standard			Source:	ARI # 0061-1		Conc:	2,000	ppm
	Observed Values (µg/g)				mean	*Cal Factor*		
	1,661	1,655	1,642		1,653	*1.210*		
Verification Standard			Source:	ERA 32-44 As		Conc:	5,000	ppm
	ICV	CCV	CCV	CCV	CCV	*mean*	*% Rec*	
	5,335	5,072	5,184	5,235		*5,207*	*104.1%*	
Standard Reference Material			Source:	***NIST 8704***		Conc:	**33,510**	ppm

Blank Data

System Blanks (enter "observed C")

Replicate determinations					Mean	condition
31.68	26.66	27.05	22.05		26.86	OK !

Silica Blanks (enter "corrected C" at end of run)

Replicate determinations					Mean	condition

Historical Blank Limits

mean	*stdev*
17.8	7.23
updated	*9/27/2005*
LBL	-3.9
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: Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor	Spike (µL Std)	Combustion Data: Burn wt. (mg)	Observed C (ppm C)	Corrected C (ppm C)	
~~ICV~~			-	~~1.00~~		~~10.0~~	~~4296~~	~~4,269~~	~~85.38%~~
ICV				1.00		10.0	5362	5,335	*106.70%*
Blank				1.00		10.0	31.68		*Blank OK*
NIST 8704				1.00		3.5	30770	30,743	*91.74%*
~~JQ40 A6~~			-	~~1.00~~		~~2.4~~	~~1847~~	~~1,820~~	~~Range OK!~~
~~JQ40 A6 dup~~				~~1.00~~		~~2.4~~	~~1522~~	~~1,495~~	~~RPD=19.6%~~
~~JQ40 A6 trp~~				~~1.00~~		~~2.5~~	~~3239~~	~~3,212~~	~~RSD=41.9%~~
~~JQ40 A6 trp~~				~~1.00~~		~~2.4~~	~~1237~~	~~1,210~~	~~RSD=45.9%~~
JQ40 A6				1.00		3.2	1408	1,381	*Range OK!*
JQ40 A6 dup				1.00		3.3	1321	1,294	*RPD=6.5%*
JQ40 A6 trp				1.00		3.2	1361	1,334	*RSD=3.3%*
JQ40 A6 ms				1.00	10	1.4	16800	16,773	*Range OK!*
Spike =	*0.02*	*mg C to*	*1.4*	*mg samp=*	*14,286*	*ppm*		*108%*	
JQ40 B6				1.00		2.8	2160	2,133	*Range OK!*
CCV				1.00		10.0	5099	5,072	*101.44%*
Blank				1.00		10.0	26.66		*Blank OK*
JQ40 C1				1.00		2.2	1634	1,607	*Range OK!*
JQ40 D1				1.00		2.9	1066	1,039	*Range OK!*
JQ35 A2				1.00		2.1	19350	19,323	*Range OK!*
JQ35 B2				1.00		2.6	18540	18,513	*Range OK!*
JQ35 C2				1.00		2.5	20100	20,073	*Range OK!*
JQ35 D3				1.00		2.4	18760	18,733	*Range OK!*
JQ35 D3 dup				1.00		2.5	19010	18,983	*RPD=1.3%*
JQ35 D3 trp				1.00		2.3	19390	19,363	*RSD=1.7%*
JQ35 D3 ms				1.00	10	1.0	47360	47,333	*Range OK!*
Spike =	*0.02*	*mg C to*	*1.0*	*mg samp=*	*20,000*	*ppm*		*143%*	
JQ35 D3 ms				1.00	10	1.1	45040	45,013	*Range OK!*
Spike =	*0.02*	*mg C to*	*1.1*	*mg samp=*	*18,182*	*ppm*		*145%*	
CCV				1.00		10.0	5211	5,184	*103.68%*
Blank				1.00		10.0	27.05		*Blank OK*
JQ35 E2				1.00		2.5	17830	17,803	*Range OK!*
JQ35 F2				1.00		2.0	17860	17,833	*Range OK!*

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	Combustion Data			
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor	(µL Std)	Burn wt. (mg)	Observed C (ppm C)	Corrected C (ppm C)	
JQ35 G2				1.00		1.9	14970	14,943	*Range OK!*
JQ35 H2				1.00		2.2	18570	18,543	*Range OK!*
JQ35 I 2				1.00		2.4	21640	21,613	*Range OK!*
JQ35 J 2				1.00		2.3	19360	19,333	*Range OK!*
JQ35 K2				1.00		2.0	23990	23,963	*Range OK!*
JQ35 M2				1.00		2.2	19110	19,083	*Range OK!*
JQ35 N2				1.00		2.5	1564	1,537	*Range OK!*
JQ35 O2				1.00		2.3	17880	17,853	*Range OK!*
NIST 8704				1.00		3.4	29360	29,333	*87.54%*
CCV				1.00		10.0	5262	5,235	*104.70%*
Blank				1.00		10.0	22.05		*Blank OK*

ANALYTICAL
RESOURCES
INCORPORATED

TOC Solids Sample Run Log

Date: 7-25-06

Analyst: (W) 12:36

Set-Up Parameters

MODE: NPOC INLET: BOAT

Standards

	Source		Conc (ppm)
Calibration	ARI	0061-1	2000
Verification	SPEX	32-44As	5000
SRM	NBS	8704	33510

Sample Sequence

Sample ID	Dilution Data (mg) sample	Dilution Data (mg) sample + SiGel	burn wt (mg)	Matrix Spike Data mg/L	Matrix Spike Data µL added	Comments
cal @ 2000			25			
ICV			10			
ICV			10			
ICB			10			
NBS 8704			3.5			
JQ40 A6			2.4			
DPA6			2.4			
↓PA6			2.5			
MPA6			2.4			
A6			3.2			
DPA6			3.3			
↓PA6			3.2			
MSA6			1.4	2000	10	
B6			2.8			
CCV			10			
CCB			10			
JQ40 C'			2.2			
D'			2.9			
JQ35 A2			2.1			
B2			2.6			
C2			2.5			
D3			2.4			
DPD3			2.5			
↓PD3			2.3			
MSD3			1.0	2000	10	High
MSD3			1.1	2000	10	4.9L
CCV			10			
CCV			10			
JQ35 E2			2.5			
F2			2.0			
G2			1.9			
H2			2.2			
I2			2.4			
J2			2.3			1470

ANALYTICAL
RESOURCES
INCORPORATED

TOC Solids Sample Run Log

Date: 7-25-06

Analyst: (LL) 12:36

Page 2 of 2

Set-Up Parameters

MODE: NPOC INLET: BOAT

Standards

	Source		Conc (ppm)
Calibration	ARI	0061-1	2000
Verification	SPEX	3244As	5000
SRM	NBS	8704	33510

Cont.

Sample Sequence

Sample ID	Dilution Data (mg) sample	sample + SiGel	burn wt (mg)	Matrix Spike Data mg/L	µL added	Comments
JQ35 K2			2.0			
M2			2.2			
N2			2.5			2 injects (1) not wrong # > injected
O2			2.3			
NBS 8704			3.4			
CCV			10			
CCB			10			

7-25-06 (LL)

1471

6154F
TOC Solids Run Log

7-25-06 (W)

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 = 1661. ug/g
Sample mass (mg) = 25.
2. NPOC = 1655. ug/g
Sample mass (mg) = 25.
3. NPOC = 1642. ug/g
AVG NPOC = 1653. +/- 9.708 % std dev: 0.587
13:22:38 Tue Jul 25, 2006
Calibration update:
Calibration factor 1.21
System blank 0.
Sample mass (mg) = 10.
1. NPOC = 4296. ug/g
13:43:41 Tue Jul 25, 2006
Sample mass (mg) = 10.
1. NPOC = 5362. ug/g
13:57:22 Tue Jul 25, 2006
Sample mass (mg) = 10.
1. NPOC = 31.68 ug/g
14:08:03 Tue Jul 25, 2006
Sample mass (mg) = 3.5
1. NPOC = 30770. ug/g
14:16:50 Tue Jul 25, 2006
Sample mass (mg) = 2.4
1. NPOC = 1847. ug/g
14:22:00 Tue Jul 25, 2006
Sample mass (mg) = 2.4
1. NPOC = 1522. ug/g
14:29:38 Tue Jul 25, 2006
Sample mass (mg) = 2.5
1. NPOC = 3239. ug/g
14:37:13 Tue Jul 25, 2006
Sample mass (mg) = 2.4
1. NPOC = 1237. ug/g
14:47:02 Tue Jul 25, 2006
Sample mass (mg) = 3.2
1. NPOC = 1408. ug/g
14:51:17 Tue Jul 25, 2006
Sample mass (mg) = 3.3
1. NPOC = 1321. ug/g
14:55:46 Tue Jul 25, 2006
Sample mass (mg) = 3.2
1. NPOC = 1361. ug/g
15:00:09 Tue Jul 25, 2006
Sample mass (mg) = 1.4
1. NPOC = 16800. ug/g
15:05:04 Tue Jul 25, 2006
Sample mass (mg) = 2.8
1. NPOC = 2160. ug/g
15:40:56 Tue Jul 25, 2006
Sample mass (mg) = 10.
1. NPOC = 5099. ug/g

Sample mass (mg) = 10.
1. NPOC = 26.66 ug/g
15:56:42 Tue Jul 25, 2006
Sample mass (mg) = 2.2
1. NPOC = 1634. ug/g
16:07:37 Tue Jul 25, 2006
Sample mass (mg) = 2.9
1. NPOC = 1066. ug/g
16:12:45 Tue Jul 25, 2006
Sample mass (mg) = 2.1
1. NPOC = 19350. ug/g
16:17:55 Tue Jul 25, 2006
Sample mass (mg) = 2.6
1. NPOC = 18540. ug/g
16:24:53 Tue Jul 25, 2006
Sample mass (mg) = 2.5
1. NPOC = 20100. ug/g
16:31:50 Tue Jul 25, 2006
Sample mass (mg) = 2.4
1. NPOC = 18760. ug/g
16:41:35 Tue Jul 25, 2006
Sample mass (mg) = 2.5
1. NPOC = 19010. ug/g
16:47:35 Tue Jul 25, 2006
Sample mass (mg) = 2.3
1. NPOC = 19390. ug/g
16:53:17 Tue Jul 25, 2006
Sample mass (mg) = 1.
1. NPOC = 47360. ug/g
17:11:10 Tue Jul 25, 2006
Sample mass (mg) = 1.1
1. NPOC = 45040. ug/g
17:23:08 Tue Jul 25, 2006
Sample mass (mg) = 10.
1. NPOC = 5211. ug/g
17:44:05 Tue Jul 25, 2006
Sample mass (mg) = 10.
1. NPOC = 27.05 ug/g
17:48:41 Tue Jul 25, 2006
Sample mass (mg) = 2.5
1. NPOC = 17830. ug/g
17:59:18 Tue Jul 25, 2006
Sample mass (mg) = 2.
1. NPOC = 17860. ug/g
18:05:51 Tue Jul 25, 2006
Sample mass (mg) = 1.9
1. NPOC = 14970. ug/g
18:16:03 Tue Jul 25, 2006
Sample mass (mg) = 2.2
1. NPOC = 18570. ug/g
18:22:25 Tue Jul 25, 2006
Sample mass (mg) = 2.4
1. NPOC = 21640. ug/g
18:28:33 Tue Jul 25, 2006
Sample mass (mg) = 2.3
1. NPOC = 19360. ug/g
18:33:34 Tue Jul 25, 2006
Sample mass (mg) = 2.
1. NPOC = 23990. ug/g
18:38:35 Tue Jul 25, 2006
Sample mass (mg) = 2.

1. NPOC = 0. ug/g No Peak!! Not included Rong#

18:41:41 Tue Jul 25, 2006
Sample mass (mg) = 2.2
1. NPOC = 19110. ug/g
18:48:00 Tue Jul 25, 2006
Sample mass (mg) = 2.5
1. NPOC = 1564. ug/g
18:53:17 Tue Jul 25, 2006
Sample mass (mg) = 2.3
1. NPOC = 17880. ug/g
19:01:03 Tue Jul 25, 2006
Sample mass (mg) = 3.4
1. NPOC = 29360. ug/g
19:07:22 Tue Jul 25, 2006
Sample mass (mg) = 10.
1. NPOC = 5262. ug/g
19:14:14 Tue Jul 25, 2006
Sample mass (mg) = 10.
1. NPOC = 22.05 ug/g
19:16:08 Tue Jul 25, 2006

JQ35

LLW 7-26-06

TOC, Solids Data Analysis

Mode: NPOC *Inlet:* Boat

Spike Std = 2,000 *ppm C*

DATE:	7/26/2006
ANALYST:	KE 9:26

Calibration Data

Calibration Standard			Source:	ARI # 0061-4			Conc: 2,000	ppm
	Observed Values (µg/g)					mean	*Cal Factor*	
	1,589	1,598	1,609			1,599	*1.251*	
Verification Standard			Source:	ERA 32-44 As			Conc: 5,000	ppm
	ICV	CCV	CCV	CCV	CCV	*mean*	*% Rec*	
	5,235	5,127	5,196	5,135	5,151	*5,169*	*103.4%*	
	5,202					*5,202*	*#DIV/0!*	
Standard Reference Material			Source:	***NIST 8704***			Conc: **33,510**	ppm

Blank Data

System Blanks (enter "observed C")

Replicate determinations					Mean	condition
17.25	18.45	37.22	30.99	43.62	29.51	OK !
22.57					22.57	OK !

Silica Blanks (enter "corrected C" at end of run)

Replicate determinations					Mean	condition

Historical Blank Limits

mean	*stdev*
17.8	7.23
updated	*9/27/2005*
updated	*9/27/2005*
LBL	-3.9
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					Combustion Data			
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor	Spike (µL Std)	Burn wt. (mg)	Observed C (ppm C)	Corrected C (ppm C)	
ICV				1.00		10.0	5265	5,235	*104.71%*
Blank				1.00		10.0	17.25		*Blank OK*
NIST 8704				1.00		3.5	29700	29,670	*88.54%*
JQ33 A2				1.00		2.8	11590	11,560	*Range OK!*
JQ33 B2				1.00		1.8	20130	20,100	*Range OK!*
JQ33 C2				1.00		2.4	16160	16,130	*Range OK!*
JQ33 D3				1.00		1.9	17330	17,300	*Range OK!*
JQ33 D3 dup				1.00		2.0	12340	12,310	*RPD=33.7%*
JQ33 D3 trp				1.00		1.9	14450	14,420	*RSD=17.1%*
JQ33 D3 ms				1.00	10	1.1	37250	37,220	*Range OK!*
Spike =	*0.02*	*mg C to*	*1.1*	*mg samp=*	*18,182*	*ppm*		*110%*	
JQ33 E2				1.00		1.7	17140	17,110	*Range OK!*
JQ33 F2				1.00		1.6	25280	25,250	*Range OK!*
CCV				1.00		10.0	5157	5,127	*102.55%*
Blank				1.00		10.0	18.45		*Blank OK*
JQ33 G2				1.00		2.3	12380	12,350	*Range OK!*
JQ33 H2				1.00		2.1	14460	14,430	*Range OK!*
JQ33 I 2				1.00		2.3	21100	21,070	*Range OK!*
JQ33 J 2				1.00		2.5	17290	17,260	*Range OK!*
JQ33 K2				1.00		1.9	14080	14,050	*Range OK!*
JQ33 L2				1.00		2.5	13860	13,830	*Range OK!*
JQ33 M2				1.00		2.2	18880	18,850	*Range OK!*
JQ33 N2				1.00		2.3	19310	19,280	*Range OK!*
JQ33 O2				1.00		2.2	22620	22,590	*Range OK!*
JQ33 P2				1.00		1.8	24580	24,550	*Range OK!*
CCV				1.00		10.0	5226	5,196	*103.93%*
Blank				1.00		10.0	37.22		*Blank OK*
JQ33 Q2				1.00		1.9	21560	21,530	*Range OK!*
JQ35 L2				1.00		2.1	4789	4,759	*Range OK!*
JQ35 P2				1.00		1.9	1794	1,764	*Range OK!*

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	Combustion Data			
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor	(µL Std)	Burn wt. (mg)	Observed C (ppm C)	Corrected C (ppm C)	
~~JQ36 A2~~			-	~~1.00~~		~~2.5~~	~~12640~~	~~12,610~~	~~Range OK!~~
~~JQ36 A2 dup~~				~~1.00~~		~~2.6~~	~~21830~~	~~21,800~~	~~RPD=53.4%~~
~~JQ36 A2 trp~~				~~1.00~~		~~2.4~~	~~14120~~	~~14,090~~	~~RSD=30.5%~~
~~JQ36 A2~~			-	~~1.00~~		~~2.5~~	~~14620~~	~~14,590~~	~~Range OK!~~
~~JQ36 A2 dup~~				~~1.00~~		~~2.5~~	~~22640~~	~~22,610~~	~~RPD=43.1%~~
~~JQ36 A2 trp~~				~~1.00~~		~~2.6~~	~~17420~~	~~17,390~~	~~RSD=22.4%~~
~~JQ36 A2 ms~~			-	~~1.00~~	~~10~~	~~1.2~~	~~31580~~	~~31,550~~	~~Range OK!~~
~~*Spike =*~~	~~*0.02*~~	~~*mg C to*~~	~~*1.2*~~	~~*mg samp=*~~	~~*16,667*~~	~~*ppm*~~		~~*102%*~~	
CCV				1.00		10.0	5165	5,135	*102.71%*
Blank				1.00		10.0	30.99		*Blank OK*
JQ36 B2				1.00		2.4	19760	19,730	*Range OK!*
JQ36 C2				1.00		2.4	16540	16,510	*Range OK!*
JQ36 D2				1.00		2.1	4242	4,212	*Range OK!*
JQ36 E2				1.00		2.0	23230	23,200	*Range OK!*
JQ36 F2				1.00		2.1	4023	3,993	*Range OK!*
JQ36 G2				1.00		2.2	12350	12,320	*Range OK!*
JQ36 H2				1.00		2.0	2198	2,168	*Range OK!*
JQ36 I 2				1.00		2.2	16850	16,820	*Range OK!*
JQ36 J 2				1.00		2.0	16610	16,580	*Range OK!*
JQ36 K2				1.00		2.3	19390	19,360	*Range OK!*
CCV				1.00		10.0	5181	5,151	*103.03%*
Blank				1.00		10.0	43.62		*Blank OK*
JQ36 L2				1.00		2.0	15900	15,870	*Range O[illegible]*
JQ28 A1				1.00		2.2	3295	3,265	*Range [illegible]*
JQ28 A1 dup				1.00		2.2	3377	3,347	*RPD= [illegible]5%*
JQ28 A1 trp				1.00		2.3	3508	3,478	*RSD =3.2%*
JQ28 A1 ms				1.00	10	3.5	9225	9,195	*Range OK!*
Spike =	*0.02*	*mg C to*	*3.5*	*mg samp=*	*5,714*	*ppm*		*104%*	
NIST 8704				1.00		3.5	28950	28,920	*86.30%*
CCV				1.00		10.0	5232	5,202	*104.05%*
~~Blank~~				~~1.00~~		~~10.0~~	~~437.8~~		~~Check Blank~~
Blank				1.00		10.0	22.57		*Blank OK*

9:26 (KJ) 7-26-06

Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOC Solids Sample Run Log

Set-Up Parameters MODE: NPOC INLET: BOAT

Standards:	Source	Conc (ppm)
Calibration:	ARI 0060-4	2000
Verification:	SPEX 32-44 AS	5000
SRM:	NBS 8704	33510

Cont

Sample Sequence:

Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments
	Sample	+ Silica Gel	mg	mg/L	µL added	
JQ36 +pA²			2.4			will be reanalyzed
A²			2.5			
dpA²			2.5			7-26-06 (KJ)
+pA²			2.6			
msA²			1.2	2000	10	
CCV			10			
CCB			10			
JQ36 B²			2.4			
C²			2.4			
D²			2.1			
E²			2.0			
F²			2.1			
G²			2.2			
H²			2.0			
I²			2.2			
J²			2.0			
K²			2.3			
CCV			10			
CCB			10			
JQ36 L²			2.0			
JQ28 A¹			2.2			
dpA¹			2.2			
+pA¹			2.3			
msA¹			3.5	2000	10	
CCV			10			
CCB			10/10			21 Jects

7-26-06 (KJ)

7-26-06
NBS 8704 .5

9:26 7-26-06 (D)

Page 1 of 2

Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOC Solids Sample Run Log

Set-Up Parameters MODE: NPOC		INLET: BOAT
Standards:	**Source**	**Conc (ppm)**
Calibration:	ARI 0061-4	2000
Verification:	SPEX 32-44AS	5000
SRM:	NBS 8704	33510

Sample Sequence:

Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments
	Sample	+ Silica Gel	mg	mg/L	µL added	
cal @ 2000			25			
ICV			10			
ICB			10			
NBS 8704			3.5			
JQ33 A2			2.8			
B2			1.8			
C2			2.4			
D3			1.9			
OPD3			2.0			
+PD3			1.9			
MSD3			1.1	2000	10	
E2			1.7			
F2			1.6			
CCV			10			
CCB			10			
JQ33 G2			2.3			
H2			2.1			
I2			2.3			
J2			2.5			
K2			1.9			
L2			25			
M2			2.2			
N2			2.3			
O2			2.2			
P2			1.8			
CCV			10			
CCB			10			
JQ33 Q2			1.9			
JQ35 L2			2.1			
P2			1.9			
JQ36 A2			2.5			will Be Reanalyzed @ 7-26-06
A2			2.6			WROA # or 1st Ent No injection or (0.6) No peak

7-26-06 (W)

Operating Parameters

ysis set-up 1
C Analysis
t mode
le size 25.
bration factor 1.
em blank 0.
concentration =2000.
le mass (mg) = 25.
NPOC = 1589. ug/g
le mass (mg) = 25.
NPOC = 1598. ug/g
le mass (mg) = 25.
NPOC = 1635. ug/g
le mass (mg) = 25.
NPOC = 1609. ug/g
G NPOC = 1608. +/- 19.77 % std dev: 1.229
34:28 Wed Jul 26, 2006
eat number 3 omitted:

G NPOC = 1599. +/- 9.95 % std dev: 0.622
ibration update:
ibration factor 1.251
tem blank 0.
ple mass (mg) = 10.
NPOC = 5265. ug/g
49:08 Wed Jul 26, 2006
ple mass (mg) = 10.
NPOC = 17.25 ug/g
59:14 Wed Jul 26, 2006
ple mass (mg) = 3.5
NPOC = 29700. ug/g
42:23 Wed Jul 26, 2006
ple mass (mg) = 2.8
NPOC = 11590. ug/g
49:07 Wed Jul 26, 2006
ple mass (mg) = 1.8
NPOC = 20130. ug/g
53:39 Wed Jul 26, 2006
ple mass (mg) = 2.4
NPOC = 16160. ug/g
01:01 Wed Jul 26, 2006
ple mass (mg) = 1.9
NPOC = 17330. ug/g
21:02 Wed Jul 26, 2006
ple mass (mg) = 2.
NPOC = 12340. ug/g
26:43 Wed Jul 26, 2006
ple mass (mg) = 1.9
NPOC = 14450. ug/g
34:51 Wed Jul 26, 2006
ple mass (mg) = 1.1
NPOC = 37250. ug/g
40:19 Wed Jul 26, 2006
ple mass (mg) = 1.7
NPOC = 17140. ug/g
45:08 Wed Jul 26, 2006
ple mass (mg) = 1.6
NPOC = 25280. ug/g
49:03 Wed Jul 26, 2006
ple mass (mg) = 10.

5:32 Wed Jul 26, 2006
le mass (mg) = 10.
NPOC = 18.45 ug/g
0:01 Wed Jul 26, 2006
le mass (mg) = 2.3
NPOC = 12380. ug/g
5:56 Wed Jul 26, 2006
le mass (mg) = 2.1
NPOC = 14460. ug/g
2:47 Wed Jul 26, 2006
le mass (mg) = 2.3
NPOC = 21100. ug/g
7:57 Wed Jul 26, 2006
le mass (mg) = 2.5
NPOC = 17290. ug/g
5:41 Wed Jul 26, 2006
le mass (mg) = 1.9
NPOC = 14080. ug/g
2:02 Wed Jul 26, 2006
le mass (mg) = 2.5
NPOC = 13860. ug/g
8:09 Wed Jul 26, 2006
le mass (mg) = 2.2
NPOC = 18880. ug/g
3:26 Wed Jul 26, 2006
le mass (mg) = 2.3
NPOC = 19310. ug/g
0:57 Wed Jul 26, 2006
le mass (mg) = 2.2
NPOC = 22620. ug/g
6:28 Wed Jul 26, 2006
le mass (mg) = 1.8
NPOC = 24580. ug/g
2:04 Wed Jul 26, 2006
le mass (mg) = 10.
NPOC = 5226. ug/g
2:17 Wed Jul 26, 2006
le mass (mg) = 10.
NPOC = 37.22 ug/g
6:54 Wed Jul 26, 2006
le mass (mg) = 1.9
NPOC = 21560. ug/g
5:11 Wed Jul 26, 2006
le mass (mg) = 2.1
NPOC = 4789. ug/g
9:42 Wed Jul 26, 2006
le mass (mg) = 1.9
NPOC = 1794. ug/g
4:13 Wed Jul 26, 2006
le mass (mg) = 2.5
NPOC = 12640. ug/g
9:04 Wed Jul 26, 2006
le mass (mg) = 0.6
NPOC = 0. ug/g No Peak!!
2:04 Wed Jul 26, 2006
le mass (mg) = 2.6
NPOC = 21830. ug/g
9:35 Wed Jul 26, 2006
le mass (mg) = 2.4
NPOC = 14120. ug/g
7:17 Wed Jul 26, 2006
le mass (mg) = 2.5
NPOC = 14620. ug/g

02:29 Wed Jul 26, 2006
ple mass (mg) = 2.5
NPOC = 22640. ug/g
43:24 Wed Jul 26, 2006
ple mass (mg) = 2.6
NPOC = 17420. ug/g
56:29 Wed Jul 26, 2006
ple mass (mg) = 1.2
NPOC = 31580. ug/g
15:18 Wed Jul 26, 2006
ple mass (mg) = 10.
NPOC = 5165. ug/g
26:52 Wed Jul 26, 2006
ple mass (mg) = 10.
NPOC = 30.99 ug/g
30:55 Wed Jul 26, 2006
ple mass (mg) = 2.4
NPOC = 19760. ug/g
36:25 Wed Jul 26, 2006
ple mass (mg) = 2.4
NPOC = 16540. ug/g
47:20 Wed Jul 26, 2006
ple mass (mg) = 2.1
NPOC = 4242. ug/g
54:09 Wed Jul 26, 2006
ple mass (mg) = 2.
NPOC = 23230. ug/g
04:24 Wed Jul 26, 2006
ple mass (mg) = 2.1
NPOC = 4023. ug/g
12:06 Wed Jul 26, 2006
ple mass (mg) = 2.2
NPOC = 12350. ug/g
16:57 Wed Jul 26, 2006
ple mass (mg) = 2.
NPOC = 2198. ug/g

31:14 Wed Jul 26, 2006
ple mass (mg) = 2.2
NPOC = 16850. ug/g
37:40 Wed Jul 26, 2006
ple mass (mg) = 2.
NPOC = 16610. ug/g
42:20 Wed Jul 26, 2006
ple mass (mg) = 2.3
NPOC = 19390. ug/g
47:39 Wed Jul 26, 2006
ple mass (mg) = 10.
NPOC = 5181. ug/g
53:57 Wed Jul 26, 2006
ple mass (mg) = 10.
NPOC = 43.62 ug/g
58:00 Wed Jul 26, 2006
ple mass (mg) = 2.
NPOC = 15900. ug/g
03:02 Wed Jul 26, 2006
ple mass (mg) = 2.2
NPOC = 3295. ug/g
08:05 Wed Jul 26, 2006
ple mass (mg) = 2.2
NPOC = 3377. ug/g
14:25 Wed Jul 26, 2006

NPOC = 3508. ug/g
18:41 Wed Jul 26, 2006
ple mass (mg) = 3.5
NPOC = 9225. ug/g
27:25 Wed Jul 26, 2006
ple mass (mg) = 3.5

NPOC = 28950. ug/g
33:09 Wed Jul 26, 2006
ple mass (mg) = 10.
NPOC = 5232. ug/g
39:12 Wed Jul 26, 2006
ple mass (mg) = 10.
NPOC = 437.8 ug/g
43:11 Wed Jul 26, 2006
ple mass (mg) = 10.
NPOC = 22.57 ug/g
50:26 Wed Jul 26, 2006

ANALYTICAL
RESOURCES
INCORPORATED

CORRECTIVE ACTIONS - Inorganic Analyses

Criteria Flagged

ARI Project No.: J035 Client Name: Anchor Environmental

Date of Out-of-Control Event: 7-25-06 Method/Element: 306

Unacceptable Blank	
Unacceptable Duplicate	
Unacceptable Spike	✓
Unacceptable Reference	

Prep Code:

Other:

Details of Problem/Recommended Corrective Action:

Spike was Ran twice once at 1.0 & once at 1.1 Both times spike is high. Matrix interference.

Samples Affected: D3

Corrective Action Taken:

Reran spike Second time still high

Sample can be re prepped if client wishes.

Analyst: Supervisor: MW

Date: 7-25-06 Date: 7-26-06

Geotech Analysis

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JQ35

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

Anchor Environmental
T4 Early Action 050332-01

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-S3-03-B	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	98.0	90.8	86.9	81.9	72.6	59.3	45.3	39.0	32.0	20.3	13.3
T4-S3-03-B	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	97.9	91.0	87.1	82.0	70.0	60.0	46.2	40.0	32.3	21.5	13.1
T4-S3-03-B	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	97.8	90.6	86.8	81.2	71.2	60.1	45.9	38.8	30.9	18.2	11.1
T4-S3-02-C	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.4	88.7	84.1	77.6	63.4	52.9	41.7	35.0	28.3	17.9	10.4
T4-S3-02-D	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	96.2	83.3	74.0	61.6	46.9	39.9	29.7	25.0	20.3	13.3	7.0
T4-S3-02-E	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	91.6	67.3	54.8	46.3	38.9	33.4	24.1	21.0	16.3	10.9	6.2
T4-S3-02-F	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.7	97.4	90.6	85.7	78.8	70.5	57.8	46.7	39.6	32.5	20.6	11.9
T4-S3-03-C	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	94.6	78.9	73.6	68.6	58.3	51.6	40.4	32.9	26.9	17.9	10.5
T4-S3-03-D	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	93.9	80.9	75.4	64.8	47.6	37.2	29.0	23.8	18.6	11.9	7.4
T4-S3-05-E	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	98.2	93.6	90.8	84.5	67.4	58.0	47.1	37.7	30.5	20.3	12.3
T4-S3-05-F	100.0	100.0	100.0	100.0	100.0	99.8	99.6	99.2	95.0	86.1	81.9	76.0	62.4	54.5	41.8	34.0	27.6	18.2	11.1
T4-S3-05-G	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.1	90.7	75.9	70.2	63.3	50.2	43.4	33.5	27.4	22.1	12.2	8.4
T4-S3-05-H	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	94.1	83.9	79.5	73.4	59.1	53.8	42.4	34.9	29.5	19.7	12.9
T4-S3-05-J	100.0	100.0	100.0	100.0	100.0	100.0	99.9	97.2	61.1	13.9	3.7	2.1	0.9	0.9	0.9	0.4	0.0	0.0	0.0
T4-S3-06-A	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	94.9	76.8	65.2	58.2	50.7	43.9	32.6	27.0	21.4	11.3	6.8
T4-S3-06-B	100.0	100.0	100.0	100.0	100.0	100.0	99.9	97.8	61.6	13.3	5.0	4.0	0.9	0.9	0.9	0.9	0.9	0.0	0.0
T4-S3-08-B	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.4	74.1	42.9	34.5	30.1	23.6	20.5	14.3	11.8	8.7	5.0	3.7
T4-S3-08-C	100.0	100.0	100.0	100.0	100.0	99.8	99.4	95.2	57.3	15.7	6.1	4.0	2.2	1.8	1.8	1.3	0.4	0.0	0.0

Testing performed according to ASTM D421/D422

JQ35

ANALYTICAL RESOURCES INCORPORATED

Anchor Environmental
T4 Early Action 050332-01

Percent Retained in Each Size Fraction

Description	% Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Very Coarse Silt	% Coarse Silt	% Medium Silt	% Fine Silt	% Fine Silt	% Very Fine Silt	% Clay
Particle Size (microns)	> 4750	4750-2000	2000-425	425-75	75-32	32-22	22-13	13-9	9-7	7-3.2	<3.2
T4-S3-03-B	0.0	0.0	2.0	16.1	9.2	13.3	14.1	6.2	7.0	11.7	20.3
T4-S3-03-B	0.0	0.0	2.1	15.9	12.0	10.0	13.8	.6.2	7.7	10.8	21.5
T4-S3-03-B	0.0	0.0	2.2	16.6	10.0	11.1	14.2	7.1	7.9	12.7	18.2
T4-S3-02-C	0.0	0.0	2.6	19.8	14.2	10.4	11.2	6.7	6.7	10.4	17.9
T4-S3-02-D	0.0	0.0	3.8	34.6	14.7	7.0	10.2	4.7	4.7	7.0	13.3
T4-S3-02-E	0.0	0.0	8.4	45.3	7.4	5.4	9.3	3.1	4.7	5.4	10.9
T4-S3-02-F	0.0	0.2	2.4	18.6	8.3	12.7	11.1	7.1	7.1	11.9	20.6
T4-S3-03-C	0.0	0.0	5.4	26.1	10.2	6.7	11.2	7.5	6.0	9.0	17.9
T4-S3-03-D	0.0	0.0	6.1	29.1	17.2	10.4	8.2	5.2	5.2	6.7	11.9
T4-S3-05-E	0.0	0.0	1.8	13.7	17.1	9.4	10.9	9.4	7.3	10.2	20.3
T4-S3-05-F	0.2	0.2	4.6	19.0	13.7	7.9	12.6	7.9	6.3	9.5	18.2
T4-S3-05-G	0.0	0.2	9.1	27.5	13.0	6.8	9.9	6.1	5.3	9.9	12.2
T4-S3-05-H	0.0	0.0	5.9	20.7	14.3	5.3	11.4	7.6	5.3	9.8	19.7
T4-S3-05-J	0.0	0.1	38.8	59.0	1.3	0.0	0.0	0.4	0.4	0.0	0.0
T4-S3-06-A	0.0	0.0	5.1	36.7	7.5	6.8	11.3	5.6	5.6	10.1	11.3
T4-S3-06-B	0.0	0.1	38.3	57.6	3.2	0.0	0.0	0.0	0.0	0.9	0.0
T4-S3-08-B	0.0	0.0	25.9	44.0	6.4	3.1	6.2	2.5	3.1	3.7	5.0
T4-S3-08-C	0.2	0.3	42.2	53.2	1.8	0.4	0.0	0.4	0.9	0.4	0.0

JQ35

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PROJECT:	Anchor Environmental	Project No.:	T4 Early Action 0503
ARI Triplicate Sample ID:	JQ35 E	Batch No.:	JQ35 -01
Client Triplicate Sample ID:	T4-S3-03-B	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-S3-03-B	100.0	100.0	100.0	100.0	100.0	100.0	99.9	98.0	90.8	86.9	81.9	72.6	59.3	45.3
T4-S3-03-B	100.0	100.0	100.0	100.0	100.0	100.0	99.9	97.9	91.0	87.1	82.0	70.0	60.0	46.2
T4-S3-03-B	100.0	100.0	100.0	100.0	100.0	100.0	99.9	97.8	90.6	86.8	81.2	71.2	60.1	45.9
AVE	100.00	100.00	100.00	100.00	100.00	99.98	99.89	97.88	90.80	86.90	81.69	71.27	59.82	45.77
STDEV	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.11	0.17	0.16	0.44	1.30	0.43	0.45
%RSD	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.11	0.19	0.19	0.53	1.83	0.71	0.98

This Triplicate applies to the Batch Containing the Following Samples

Sample ID	Date Sampled	Date Set up	Date Started	Date Complete	Data Qualifiers
T4-S3-03-B	7/19/2006	8/1/2006	8/2/2006	8/4/2006	
T4-S3-03-B	7/19/2006	7/31/2006	8/2/2006	8/4/2006	
T4-S3-03-B	7/19/2006	7/31/2006	8/2/2006	8/4/2006	
T4-S3-02-C	7/18/2006	7/31/2006	8/2/2006	8/4/2006	
T4-S3-02-D	7/18/2006	8/1/2006	8/2/2006	8/4/2006	
T4-S3-02-E	7/18/2006	8/1/2006	8/2/2006	8/4/2006	
T4-S3-02-F	7/18/2006	8/1/2006	8/2/2006	8/4/2006	
T4-S3-03-C	7/19/2006	7/31/2006	8/2/2006	8/4/2006	
T4-S3-03-D	7/19/2006	7/31/2006	8/2/2006	8/4/2006	
T4-S3-05-E	7/19/2006	7/31/2006	8/2/2006	8/4/2006	
T4-S3-05-F	7/19/2006	7/31/2006	8/2/2006	8/4/2006	
T4-S3-05-G	7/19/2006	8/1/2006	8/2/2006	8/4/2006	
T4-S3-05-H	7/19/2006	8/1/2006	8/2/2006	8/4/2006	
T4-S3-05-J	7/19/2006	8/1/2006	8/2/2006	8/4/2006	
T4-S3-06-A	7/20/2006	8/1/2006	8/2/2006	8/4/2006	
T4-S3-06-B	7/20/2006	8/1/2006	8/2/2006	8/4/2006	
T4-S3-08-B	7/19/2006	8/1/2006	8/2/2006	8/4/2006	
T4-S3-08-C	7/19/2006	8/1/2006	8/2/2006	8/4/2006	

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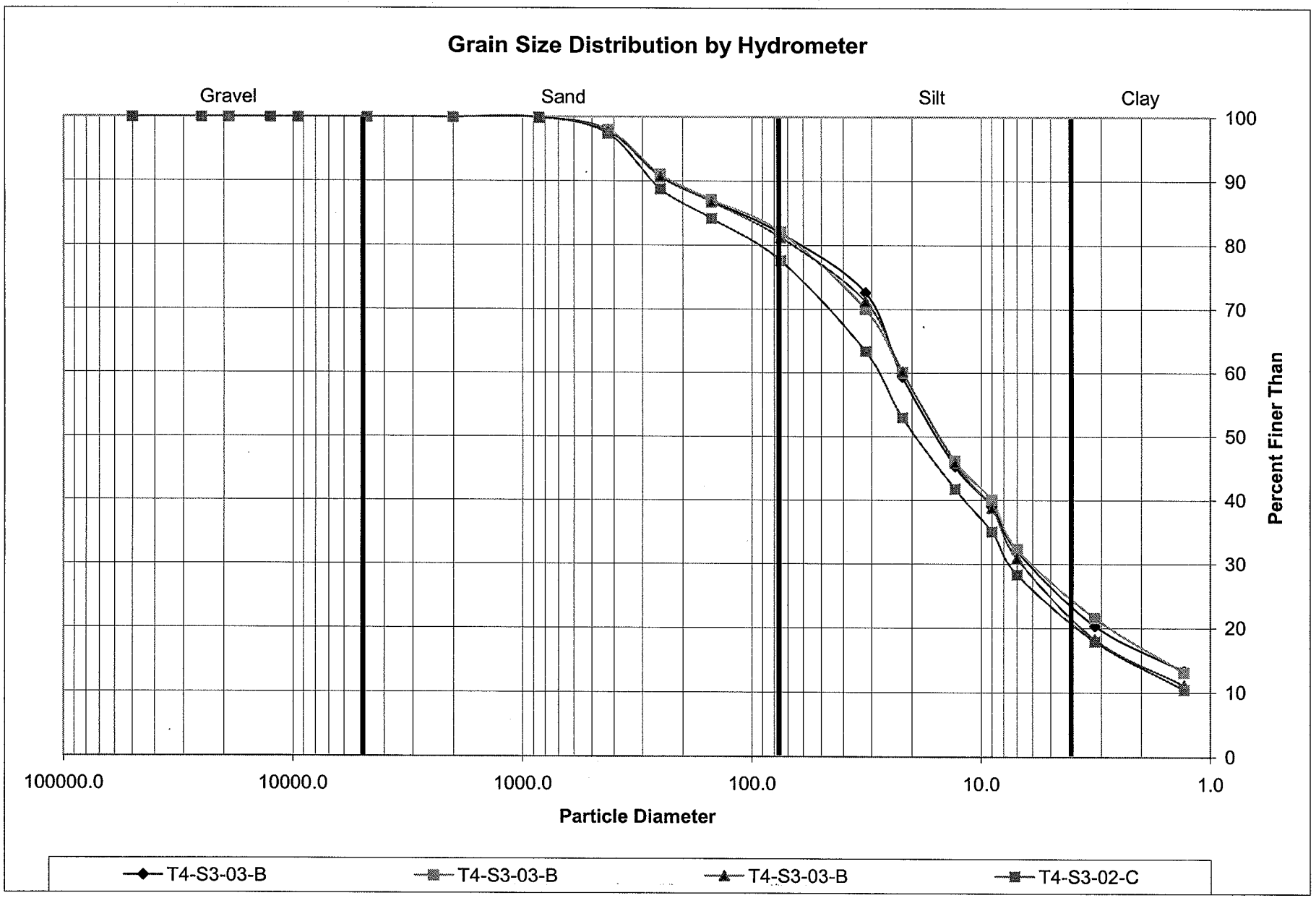
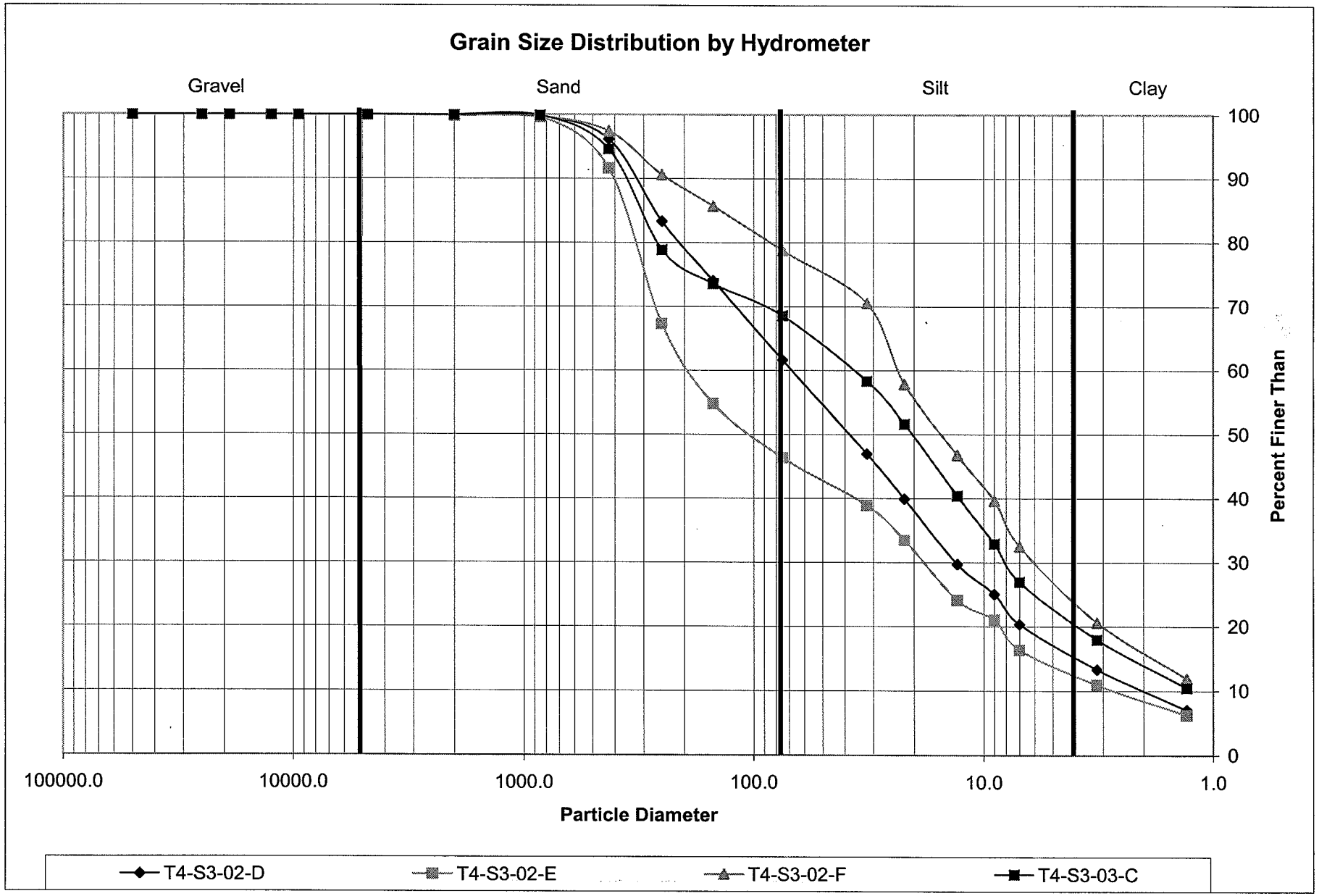
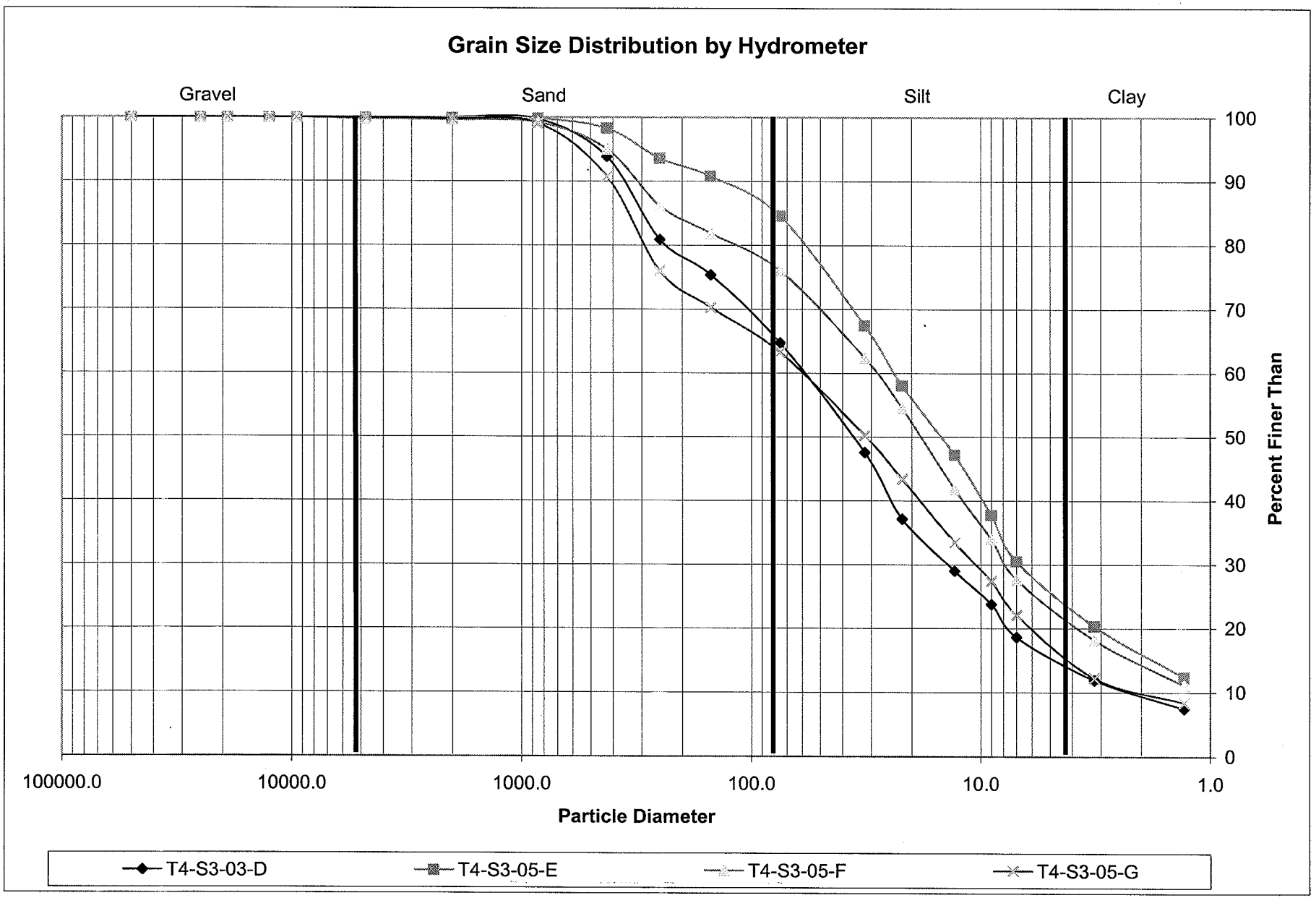



Grain Size Distribution by Hydrometer
Gravel
Sand
Silt
Clay
100
90
80
70
60
50
40
30
20
10
0
Percent Finer Than
100000.0
10000.0
1000.0
100.0
10.0
1.0
Particle Diameter
T4-S3-02-D
T4-S3-02-E
T4-S3-02-F
T4-S3-03-C

ANALYTICAL RESOURCES INCORPORATED



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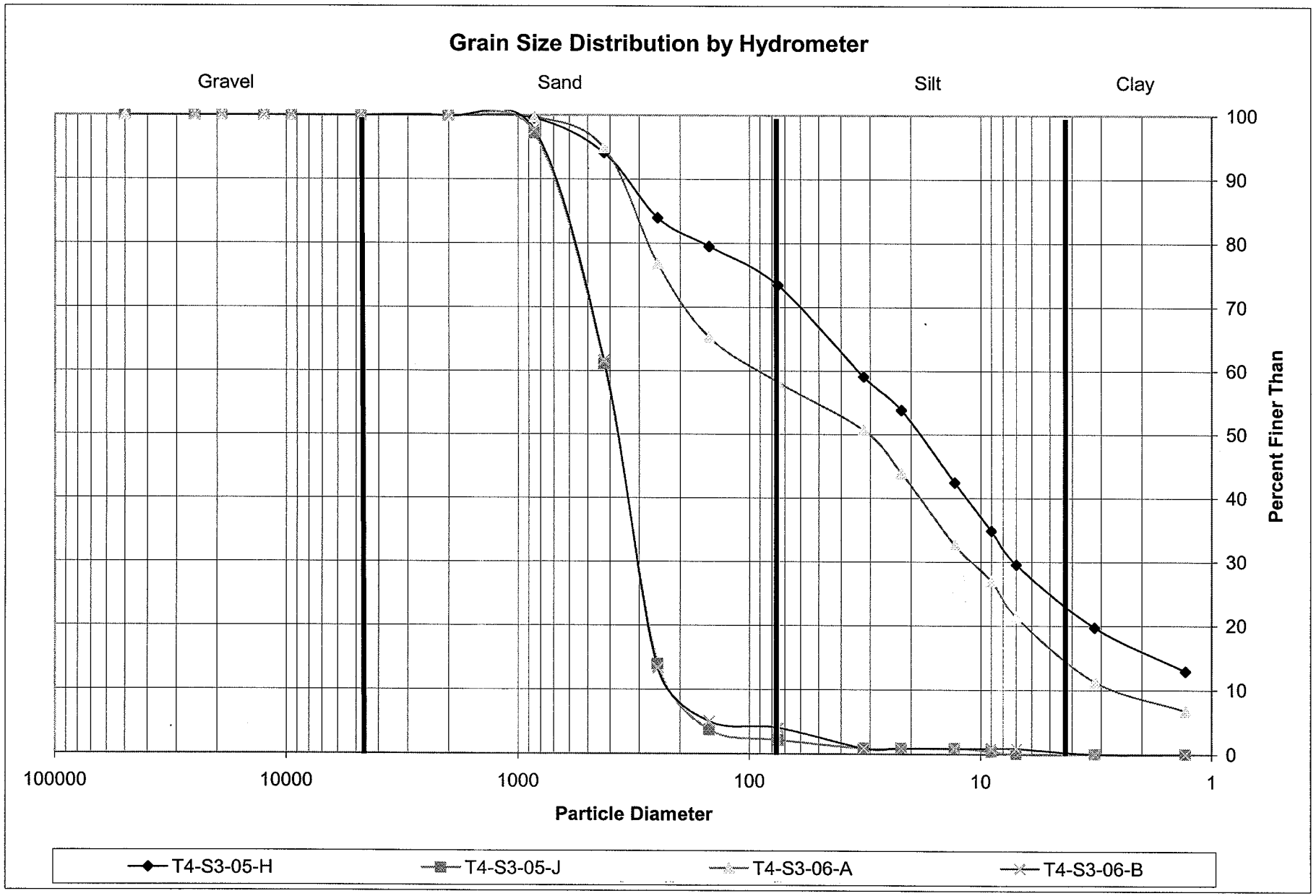

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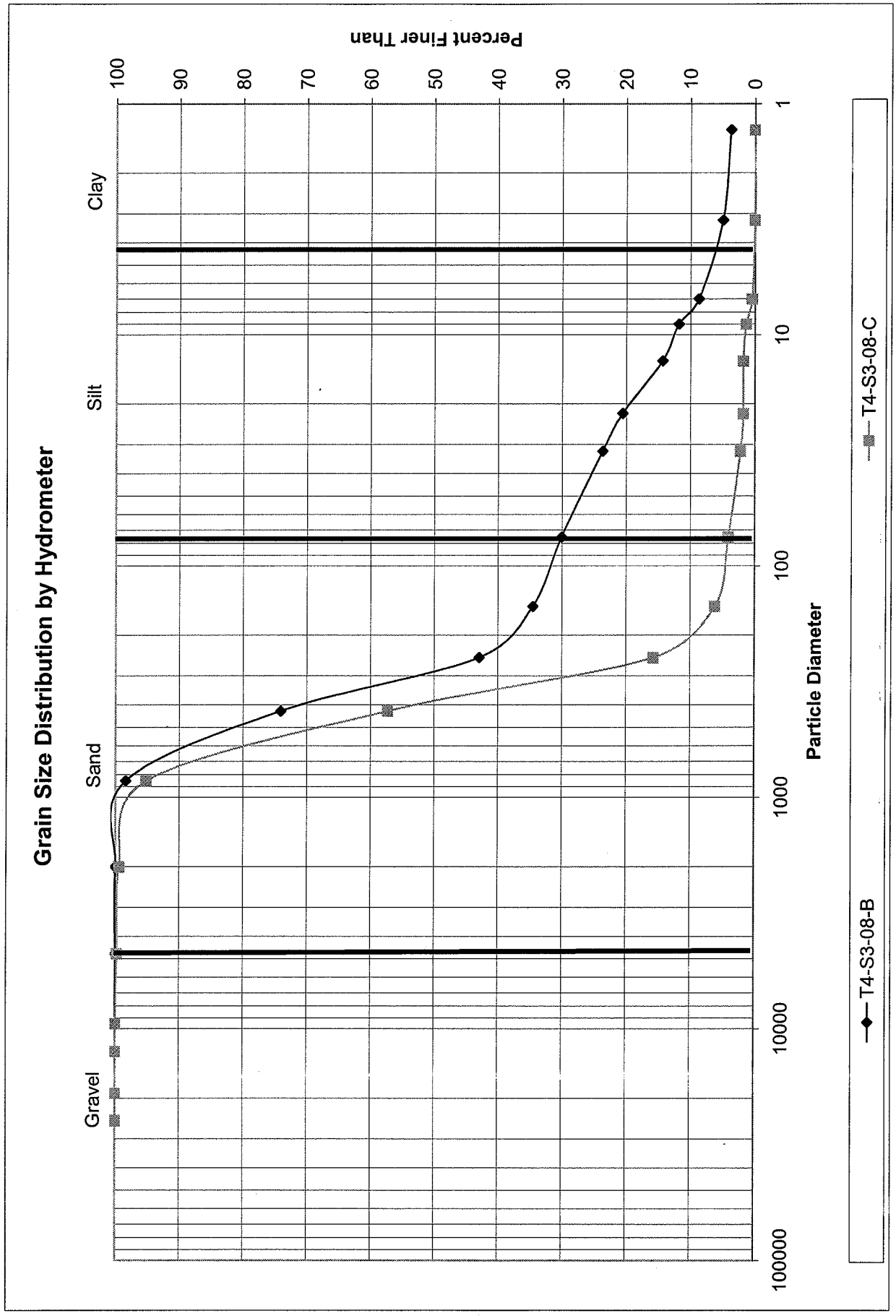

Hydrometer Analysis - ASTM D-422

ARI Job No.: J035 ARI Sample No.: E-1
Client Sample Number: T4-S3-03-B
Description: Silt, Some Clay
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	E-1
Tare Weight	1.487
Wet Soil + Tare (g)	26.55
Dry Soil + Tare (g)	25.36

tm

Tare Number	J035E-1
Tare Weight (g)	10.42
Weight Total Sample (g) (Air-dried, not sieved)	127.05
Weight Hydro Test Sample (g)	67.33
Tare + Oven Dry Plus #10 (g)	10.43
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	22.45

Date Set Up 8/1/06
Technician: tm
Hydro Beaker: B
Hydro #: 199344
Calgon Batch #: 137

Place

8/3/2006 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
9:17:00	START				
9:18:00	1	56.5	5	22.5	F
9:19:00	2	51.5	5	22.5	F
9:22:00	5	43	5	22.5	
9:32:00	15	34	5	22.5	
9:47:00	30	30	5	22.5	
10:17:00	60	25.5	5	22.5	
13:27:00	250	18	5	22.5	
9:17:00	1440	13.5	5	23	
9:17:00					

Sieve Analysis
Date Sieved: 8/7/06 Technician: tm Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.42
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	
#20	10.48
#40	11.73
#60	16.33
#100	18.84
#200	22.06
Pan	22.54

40
50

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ35 ARI Sample No.: E-2
Client Sample Number:
Description:
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	E-2
Tare Weight	1.49
Wet Soil + Tare (g)	27.94
Dry Soil + Tare (g)	26.77

Tare Number	E-2
Tare Weight (g)	10.40
Weight Total Sample (g) (Air-dried, not sieved)	130.78
Weight Hydro Test Sample (g)	68.10
Tare + Oven Dry Plus #10 (g)	10.40
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	22.45

Date Set Up 7/31/06
Technician: tm
Hydro Beaker: BB
Hydro #: 199344
Calgon Batch #: 137

Place	8/3/2006 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
	9:24:00	START				
	9:25:00	1	55.5	5	22.5	F
	9:26:00	2	50.5	5	22.5	F
	9:29:00	5	44	5	22.5	
	9:39:00	15	35	5	22.5	
	9:54:00	30	31	5	22.5	
	10:24:00	60	26	5	22.5	
	13:34:00	250	19	5	23	
	9:24:00	1440	13.5	5	23	
	9:24:00					

Sieve Analysis
Date Sieved: 8/8/06 Technician: HB Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.42
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.42
#20	10.51
#40	11.77
#60	16.29
#100	18.83
#200	22.12
Pan	22.56

40
50

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ35 ARI Sample No.: E-3
Client Sample Number:
Description:
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	E-3
Tare Weight	1.49
Wet Soil + Tare (g)	29.91
Dry Soil + Tare (g)	28.55

Tare Number	E-3
Tare Weight (g)	10.45
Weight Total Sample (g) (Air-dried, not sieved)	119.82
Weight Hydro Test Sample (g)	66.44
Tare + Oven Dry Plus #10 (g)	10.46
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	22.56

Date Set Up 7/31/06
Technician: tm
Hydro Beaker: AM
Hydro #: 199344
Calgon Batch #: 137

Place

8/3/2006 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
9:31:00	START				
9:32:00	1	54.5	5	22.5	F
9:33:00	2	50	5	22.5	F
9:36:00	5	43	5	22.5	
9:46:00	15	34	5	22.5	
10:01:00	30	29.5	5	22.5	
10:31:00	60	24.5	5	22.5	
13:41:00	250	16.5	5	23	
9:31:00	1440	12	5	23	
9:31:00					

Sieve Analysis
Date Sieved: 8/8/06 Technician: HB Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.47
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.52
#20	10.56
#40	11.91
#60	16.41
#100	18.87
#200	22.39
Pan	22.61

40
50

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ35 ARI Sample No.: A
Client Sample Number: TH-53-02-C
Description: SILT
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	A
Tare Weight	1.50
Wet Soil + Tare (g)	28.15
Dry Soil + Tare (g)	27.06

Tare Number	JQ35A
Tare Weight (g)	10.37
Weight Total Sample (g) (Air-dried, not sieved)	122.07
Weight Hydro Test Sample (g)	70.04
Tare + Oven Dry Plus #10 (g)	10.37
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	26.09

Date Set Up 7/31/06
Technician: tm
Hydro Beaker: S
Hydro #: 199344
Calgon Batch #: 137

Place: 8/3/2006

TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
9:38:00	START				
9:39:00	1	54	5	22.5	F
9:40:00	2	47.5	5	22.5	F
9:43:00	5	40.5	5	22.5	F
9:53:00	15	33	5	22.5	
10:08:00	30	28.5	5	22.5	
10:38:00	60	24	5	22.5	
13:48:00	250	17	5	23	
9:38:00	1440	12	5	23	
9:38:00					

Sieve Analysis
Date Sieved: 8/7/06 Technician: tm Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.36
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	
#20	10.39
#40	12.13
#60	17.94
#100	21.02
#200	25.42
Pan	26.14

30
40
50

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ35 ARI Sample No.: B
Client Sample Number: T4-S3-02-D
Description: Silt, Some Woody Matter
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	B
Tare Weight	15.48
Wet Soil + Tare (g)	31.48
Dry Soil + Tare (g)	30.36

Tare Number	JQ35B
Tare Weight (g)	10.44
Weight Total Sample (g) (Air-dried, not sieved)	128.81
Weight Hydro Test Sample (g)	60.52
Tare + Oven Dry Plus #10 (g)	10.48
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	35.26

Date Set Up 8/1/06
Technician: tm
Hydro Beaker: AE
Hydro #: 199344
Calgon Batch #: 137

Place	8/3/2006 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
	9:45:00	START				
	9:46:00	1	42.5	5	22.5	F
	9:47:00	2	35	5	22.5	F
	9:50:00	5	30.5	5	22.5	
	10:00:00	15	24	5	22.5	
	10:15:00	30	21	5	22.5	
	10:45:00	60	18	5	22.5	
	13:55:00	250	13.5	5	23	
	9:45:00	1440	9.5	5	23	
	9:45:00					

Sieve Analysis
Date Sieved: 8/7/06 Technician: tm Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.42
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.46
#20	10.58
#40	12.89
#60	21.13
#100	27.08
#200	35.04
Pan	35.35

25
35

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ35 ARI Sample No.: C
Client Sample Number: T4-S3-02-E
Description: SILT, Some Woody MATTER
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	C
Tare Weight	1.49
Wet Soil + Tare (g)	28.25
Dry Soil + Tare (g)	27.37

Tare Number	JQ35C
Tare Weight (g)	10.51
Weight Total Sample (g) (Air-dried, not sieved)	133.61
Weight Hydro Test Sample (g)	66.57
Tare + Oven Dry Plus #10 (g)	10.53
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	45.45

Date Set Up 8/1/06
Technician: fm
Hydro Beaker: AS
Hydro #: 199344
Calgon Batch #: 137

Place 8/3/2006

TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
11:16:00	START				
11:17:00	1	35	5	22.5	F
11:18:00	2	30	5	22.5	F
11:21:00	5	26.5	5	22.5	
11:31:00	15	20.5	5	22.5	
11:46:00	30	18.5	5	22.5	
12:16:00	60	15.5	5	22.5	
15:26:00	250	12	5	23.5	
11:16:00	1440	9	5	23	
11:16:00					

Sieve Analysis
Date Sieved: 8/8/06 Technician: HB Sieve Set # 13

Sieve Size	Cumulative Weight
Empty Tare	10.50
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.54
#20	10.74
#40	15.92
#60	31.58
#100	39.66
#200	45.10
Pan	45.65

20
30

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Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ35 ARI Sample No.: D
Client Sample Number: T4-53-02-F
Description: SILT, WOODY MATTER
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	D
Tare Weight	1.45
Wet Soil + Tare (g)	27.06
Dry Soil + Tare (g)	25.95

Tare Number	JQ35D
Tare Weight (g)	10.61
Weight Total Sample (g) (Air-dried, not sieved)	121.41
Weight Hydro Test Sample (g)	65.97
Tare + Oven Dry Plus #10 (g)	10.75
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	24.66

Date Set Up 8/1/06
Technician: tm
Hydro Beaker: AT
Hydro #: 199344
Calgon Batch #: 137

Place	8/3/2006 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
	9:52:00	START				
	9:53:00	1	54.5	5	22.5	F
	9:54:00	2	49.5	5	22.5	F
	9:57:00	5	41.5	5	22.5	
	10:07:00	15	34.5	5	22.5	
	10:22:00	30	30	5	22.5	
	10:52:00	60	25.5	5	22.5	
	14:02:00	250	18	5	23	
	9:52:00	1440	12.5	5	23	
	9:52:00					

Sieve Analysis
Date Sieved: 8/7/06 Technician: tm Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.58
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.74
#20	10.85
#40	12.27
#60	16.59
#100	19.69
#200	24.05
Pan	24.75

40
50

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Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ35 ARI Sample No.: F
Client Sample Number: T4-S3-03-B
Description: SILT
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	F
Tare Weight	1.47
Wet Soil + Tare (g)	26.95
Dry Soil + Tare (g)	26.01

Tare Number	JQ35F
Tare Weight (g)	10.50
Weight Total Sample (g) (Air-dried, not sieved)	126.79
Weight Hydro Test Sample (g)	69.53
Tare + Oven Dry Plus #10 (g)	10.50
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	~~31.64~~ 31.68 (HB)

Date Set Up 7/31/06
Technician: TM
Hydro Beaker: CC
Hydro #: 199344
Calgon Batch #: 136

Place

8/3/2006 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
9:59:00	START				
10:00:00	1	49	5	22.5	F
10:01:00	2	44	5	22.5	F
10:04:00	5	39.5	5	22.5	
10:14:00	15	32	5	22.5	
10:29:00	30	27	5	22.5	
10:59:00	60	23	5	22.5	
14:09:00	250	17	5	23	
9:59:00	1440	12	5	23	
9:59:00					

Sieve Analysis
Date Sieved: 8/8/06 Technician: HB Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.50
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	
#20	10.57
#40	14.11
#60	24.66
#100	28.20
#200	31.56
Pan	31.68

40
45

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ35 ARI Sample No.: G
Client Sample Number: T4-S3-03-D
Description: Silt
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	G
Tare Weight	1.49
Wet Soil + Tare (g)	25.77
Dry Soil + Tare (g)	24.95

Tare Number	JQ35G
Tare Weight (g)	10.43
Weight Total Sample (g) (Air-dried, not sieved)	143.93
Weight Hydro Test Sample (g)	69.74
Tare + Oven Dry Plus #10 (g)	10.44
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	34.55

Date Set Up 7/31/06
Technician: tm
Hydro Beaker: ED
Hydro #: 199344
Calgon Batch #: 137

Place	8/3/2006 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
	10:06:00	START				
	10:07:00	1	45	5	22.5	F
	10:08:00	2	37	5	22.5	F
	10:11:00	5	30	5	22.5	
	10:21:00	15 (AM)	24.5	5	22.5	
	10:36:00	30	21	5	22.5	
	11:06:00	60	17.5	5	22.5	
	14:16:00	250	13	5	23.5	
	10:06:00	1440	10	5	23	
	10:06:00					

Sieve Analysis
Date Sieved: 8/8/06 Technician: HB Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.45
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.45
#20	10.62
#40	14.59
#60	23.35
#100	27.05
#200	34.20
Pan	34.75

30
40

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ35 ARI Sample No.: H
Client Sample Number: T4-S3-05-E
Description: SILT
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	H
Tare Weight	1.46
Wet Soil + Tare (g)	26.52
Dry Soil + Tare (g)	25.41

Tare Number	JQ35H
Tare Weight (g)	10.42
Weight Total Sample (g) (Air-dried, not sieved)	122.11
Weight Hydro Test Sample (g)	72.25
Tare + Oven Dry Plus #10 (g)	10.42
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	21.95

Date Set Up 7/31/06
Technician: fm
Hydro Beaker: A
Hydro #: 199344
Calgon Batch #: 137

Place

8/3/2006 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
10:13:00	START				
10:14:00	1	56	5	22.5	F
10:15:00	2	51.5	5	22.5	F
10:18:00	5	45	5	22.5	F
10:28:00	15	37.5	5	22.5	F
10:43:00	30	31	5	22.5	
11:13:00	60	26	5	22.5	
14:23:00	250	19	5	23.5	
10:13:00	1440	14	5	23	
10:13:00	(fm)	13.5			

Sieve Analysis
Date Sieved: 8/8/06 Technician: HB Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.43
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.43
#20	10.56
#40	11.64
#60	14.85
#100	16.80
#200	21.10
Pan	22.05

20
30
40
50

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Hydrometer Analysis - ASTM D-422

ARI Job No.: 1035 ARI Sample No.: I
Client Sample Number: T4-S3-05-F
Description: SILT, Some CLAY
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	I
Tare Weight	1.49
Wet Soil + Tare (g)	27.34
Dry Soil + Tare (g)	26.26

Tare Number	1035I
Tare Weight (g)	10.47
Weight Total Sample (g) (Air-dried, not sieved)	125.16
Weight Hydro Test Sample (g)	65.94
Tare + Oven Dry Plus #10 (g)	10.85
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	26.25

Date Set Up 7/31/06
Technician: ym
Hydro Beaker: AJ
Hydro #: 199344
Calgon Batch #: 137

Place	8/3/2006 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
	10:20:00	START				
	10:21:00	1	48.5	5	22.5	F
	10:22:00	2	44.5	5	22.5	F
	10:25:00	5	39.5	5	22.5	F
	10:35:00	15	31.5	5	22.5	
	10:50:00	30	26.5	5	22.5	
	11:20:00	60	22.5	5	22.5	
	14:30:00	250	16.5	5	23.5	
	10:20:00	1440	12	5	23	
	10:20:00					

Sieve Analysis
Date Sieved: 8/8/06 Technician: HB Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.46
2"	
1"	
3/4	
1/2	
3/8	
#4	10.69
#10	10.86
#20	11.12
#40	13.78
#60	19.42
#100	22.13
#200	25.82
Pan	26.27

20
30
40

Hydrometer Analysis - ASTM D-422

ARI Job No.: J035 ARI Sample No.: J

Client Sample Number: T4-S3-05-G

Description: SILT, Some Woody Matter & pebbles

Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	J
Tare Weight	1.45
Wet Soil + Tare (g)	27.14
Dry Soil + Tare (g)	26.17

Tare Number	J035-J
Tare Weight (g)	10.45
Weight Total Sample (g) (Air-dried, not sieved)	121.22
Weight Hydro Test Sample (g)	68.23
Tare + Oven Dry Plus #10 (g)	10.69
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	34.86

Date Set Up 8/1/06

Technician: tm

Hydro Beaker: IBA

Hydro #: 199344

Calgon Batch #: 137

Place

8/3/2006 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
10:27:00	START				
10:28:00	1	46	5	22.5	F
10:29:00	2	38	5	22.5	F
10:32:00	5	33.5	5	22.5	
10:42:00	15	27	5	22.5	
10:57:00	30	23	5	22.5	
11:27:00	60	19.5	5	22.5	
14:37:00	250	13	5	23.5	
10:27:00	1440	10.5	5	23	
10:27:00					

Sieve Analysis

Date Sieved: 8/7/06 Technician: tm Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.45
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.67
#20	11.12
#40	16.64
#60	26.37
#100	30.11
#200	34.71
Pan	34.97

30
40

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ35 ARI Sample No.: K
Client Sample Number: T4-33-05-H
Description: SILT, Some Woody Matter
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	K
Tare Weight	1.46
Wet Soil + Tare (g)	30.47
Dry Soil + Tare (g)	29.26

Tare Number	JQ35K
Tare Weight (g)	10.53
Weight Total Sample (g) (Air-dried, not sieved)	124.01
Weight Hydro Test Sample (g)	68.94
Tare + Oven Dry Plus #10 (g)	10.56
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	28.12

Date Set Up 8/1/06
Technician: fm
Hydro Beaker: Z
Hydro #: 199344
Calgon Batch #: 137

Place: 8/3/2006

TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
10:34:00	START				
10:35:00	1	49	5	22.5	F
10:36:00	2	44	5	22.5	F
10:39:00	5	40.5	5	22.5	
10:49:00	15	33	5	22.5	
11:04:00	30	28	5	22.5	
11:34:00	60	24.5	5	22.5	
14:44:00	250	18	5	23.5	
10:34:00	1440	13.5	5	23	
10:34:00					

Sieve Analysis
Date Sieved: 8/7/06 Technician: fm Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.52
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.55
#20	10.85
#40	14.42
#60	21.15
#100	24.09
#200	28.10
Pan	28.29

30
40

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ35 ARI Sample No.: L
Client Sample Number: T4-S3-05-J
Description: SAND, Some WOODY MATTER
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	L
Tare Weight	1.44
Wet Soil + Tare (g)	28.29
Dry Soil + Tare (g)	27.87

Tare Number	JQ35L
Tare Weight (g)	10.49
Weight Total Sample (g) (Air-dried, not sieved)	160.29
Weight Hydro Test Sample (g)	115.78
Tare + Oven Dry Plus #10 (g)	10.63
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	122.08

Date Set Up 8/1/06
Technician: tm
Hydro Beaker: D2
Hydro #: 199344
Calgon Batch #: 137

Place	8/3/2006 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
	10:41:00	START			
	10:42:00	1	6.5	5	22.5
	10:43:00	2	6	5	22.5
	10:46:00	5	6	5	22.5
	10:56:00	15	6	5	22.5
	11:11:00	30	5.5	5	22.5
	11:41:00	60	5	5	22.5
	14:51:00	250	5	5	23.8
	10:41:00	1440			
	10:41:00				

Sieve Analysis
Date Sieved: 8/8/06 Technician: HB Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.50
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.64
#20	13.73
#40	54.93
#60	108.71
#100	120.36
#200	122.18
Pan	122.22

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ35 ARI Sample No.: M
Client Sample Number: TA-53-606-#A
Description: SILT
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	M
Tare Weight	1.46
Wet Soil + Tare (g)	7.35
Dry Soil + Tare (g)	7.17

Tare Number	JQ35M
Tare Weight (g)	10.43
Weight Total Sample (g) (Air-dried, not sieved)	62.37
Weight Hydro Test Sample (g)	45.87
Tare + Oven Dry Plus #10 (g)	10.43
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	28.99

Date Set Up 8/1/06
Technician: tm
Hydro Beaker: BW
Hydro #: 199344
Calgon Batch #: 137

Place

8/3/2006 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
10:48:00	START				
10:49:00	1	30.5	5	22.5	F
10:50:00	2	27.5	5	22.5	F
10:53:00	5	24.5	5	22.5	F
11:03:00	15	19.5	5	22.5	
11:18:00	30	17	5	22.5	
11:48:00	60	14.5	5	22.5	
14:58:00	250	10	5	23.5	
10:48:00	1440	8	5	23	
10:48:00					

Sieve Analysis
Date Sieved: 8/7/06 Technician: tm Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.51
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.52
#20	10.64
#40	12.77
#60	20.82
#100	25.97
#200	29.10
Pan	29.35

10
15
20

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ35 ARI Sample No.: N
Client Sample Number: T4-S3-06-B
Description: SAND
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	N
Tare Weight	1.45
Wet Soil + Tare (g)	27.34
Dry Soil + Tare (g)	26.84

Tare Number	JQ35N
Tare Weight (g)	10.40
Weight Total Sample (g) (Air-dried, not sieved)	199.73
Weight Hydro Test Sample (g)	114.56
Tare + Oven Dry Plus #10 (g)	10.58
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	120.66

Date Set Up 8/1/06
Technician: tm
Hydro Beaker: EF
Hydro #: 199344
Calgon Batch #: 137

Place

8/3/2006 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
10:55:00	START			
10:56:00	1	6	5	22.5
10:57:00	2	6	5	22.5
11:00:00	5	6	5	22.5
11:10:00	15	6	5	22.5
11:25:00	30	6	5	22.5
11:55:00	60	5	5	22.5
15:05:00	250	5	5	23.5
10:55:00	1440			
10:55:00				

Sieve Analysis
Date Sieved: 8/8/06 Technician: HB Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.41
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.59
#20	13.06
#40	54.46
#60	109.88
#100	119.36
#200	120.53
Pan	120.55

Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ35 ARI Sample No.: 0
Client Sample Number: T4-S3-08-B
Description: SILT, SAND
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	0
Tare Weight	1.44
Wet Soil + Tare (g)	26.98
Dry Soil + Tare (g)	26.26

Tare Number	JQ350
Tare Weight (g)	10.42
Weight Total Sample (g) (Air-dried, not sieved)	174.20
Weight Hydro Test Sample (g)	82.76
Tare + Oven Dry Plus #10 (g)	10.47
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	66.59

Date Set Up 8/1/06
Technician: tm
Hydro Beaker: 23
Hydro #: 199344
Calgon Batch #: 137

Place

8/3/2006 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)	
11:02:00	START				
11:03:00	1	28.5	5	22.5	F
11:04:00	2	24	5	22.5	F
11:07:00	5	21.5	5	22.5	
11:17:00	15	16.5	5	22.5	
11:32:00	30	14.5	5	22.5	
12:02:00	60	12	5	22.5	
15:12:00	250	9	5	23.5	
11:02:00	1440	8	5	23	
11:02:00					

Sieve Analysis
Date Sieved: 8/7/06 Technician: tm Sieve Set # 4

Sieve Size	Cumulative Weight
Empty Tare	10.43
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.49
#20	11.74
#40	31.33
#60	56.39
#100	63.15
#200	66.71
Pan	66.80

10
20

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Hydrometer Analysis - ASTM D-422

ARI Job No.: JQ35 ARI Sample No.: P
Client Sample Number: T4-S3-08-0C
Description: SAND, Some Silt & pebbles
Method of size reduction: Quartering [ ] Sample Splitter [ ] Whole Sample [ ]

Moisture Content	
Tare Number	P
Tare Weight	1.45
Wet Soil + Tare (g)	27.24
Dry Soil + Tare (g)	26.86

Tare Number	JQ35P
Tare Weight (g)	10.42
Weight Total Sample (g) (Air-dried, not sieved)	185.09
Weight Hydro Test Sample (g)	114.63
Tare + Oven Dry Plus #10 (g)	11.42
Tare + Oven Dry After # 200 Wash (g) (Plus #10 Included)	119.59

Date Set Up 8/1/06
Technician: tm
Hydro Beaker: EC
Hydro #: 199344
Calgon Batch #: 137

Place	8/3/2006 TIME	Δ Time	Test Cylinder	Calgon Blank	Temp (°C)
	11:09:00	START			
	11:10:00	1	8	5	22.5
	11:11:00	2	7.5	5	22.5
	11:14:00	5	7	5	22.5
	11:24:00	15	7	5	22.5
	11:39:00	30	6.5	5	22.5
	12:09:00	60	5.5	5	22.5
	15:19:00	250	5	5	23.5
	11:09:00	1440			
	11:09:00				

Sieve Analysis
Date Sieved: 8/7/06 Technician: tm Sieve Set # 3

Sieve Size	Cumulative Weight
Empty Tare	10.44
2"	
1"	
3/4	
1/2	
3/8	
#4	
#10	10.87
#20	11.41
#40	16.20
#60	59.30
#100	106.54
#200	119.76
Pan	119.89

117.38 #100

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