

Run 0632DB

Date Analyzed 11-26-08 Analysis TRACERS

Analyst J Instrument IEPMS11

STANDARD ERROR CODES:

- |   |  |   |                   |
|---|--|---|-------------------|
| E | Entry or Recording Error (Inadvertant) | C | Calculation Error |
| W | Wording Change or Writeover error      | S | Spelling Error    |
|   |  | R | Rounding Error    |

This data package should contain the following:

1. List of samples analyzed (copy of log book).
2. Summary of IS recoveries (control chart or table).
3. Calibration Standards (table). *Trace B, Nd, I*  
*80-110%*  
*7C → 6C (except Sr-Al) within expected range*
4. Continuing Calibration verification. CCV's must be within +/- 10%. Identify exceptions.  
*(43) distt (used for calibration only)*  
*for Fe, Co, Ni*
5. SRM's and/or initial calibration verification (ICV) report.  
*T69 Fe (near DC)*
6. Duplicate and spike results.  
*Normal ranges*
7. Method blanks.  
*Normal*
8. Peak integrals (instrument print-out).
9. Explain deviations from QA guideline (attach QA Action Form).  
*No added 12-01-08*  
*See above*

I certify that this data has been acquired under Standard Operating Procedures and that QA outliers have been identified to my supervisor.

Analyst Signature J Date 11-26-08

Data Calculated by J Date 12-01-08

I certify that this data has been reviewed and QA outliers satisfactorily handled.

Supervisor's Signature au Date 12/02/08

ICPMS  
RECORD OF SAMPLE PREPARATION

PAGE: 1 OF 1

DATE: 11/24/2008      JOB #: 110609      CLIENT: A&S Research Inc  
ANALYSIS: Trace Impurities      PREP BY: PGE  
SAMPLE MATRIX: Chunk      HNO3/H2O2 Digest

Sample ID      Sample Description      Weight of Sample

Blank  
SN Chunk 080911      0.0058 g  
LFB

LFB spiked with 100µL of:

10ppm CAM A      784-0721-128-3 Exp 07-09  
10ppm CAM B      784-0711-113-2 Exp 07-09  
10ppm Minors      784-0611-060-1 Exp 06-09  
1ppm Hg      811-1030-112-2 Exp 04-09  
1000ppm K, Mg      784-0823-193-2 Exp 08-09  
1000ppm P, Si      784-0805-167-3 Exp 08/09  
1000ppm Ca, Fe, Na      784-0811-169-2 Exp 08/09

Sample Prep Procedure:

Sample Quantity: entire sample

- Weigh entire sample into a 15mL digestion vessel.
  - Add 0.5mL HNO3 JTB LOT # 614423F Exp 11/10 + 0.5mL HCl JTB LOT # 614423F Exp 11/10
  - Digest on a hotblock set at 110 °C for 1 hour. > Cool, Add 30% H2O2 0.5mL JTB LOT # 614423F Exp 11/10
  - Cool, add 100 µL In-Tb-Sc internal standard: 761-1020-144-1 Exp 10-09
  - Dilute, with water DISTILLED to a final mass of 10 grams. Mix well.
- PGE 11-24-08  
Exp 08/09  
place on  
hotblock for  
another 30min.*

Balance ID #: B-3

- ( ) sample completely dissolves  
() sample mostly dissolves  
( ) sample does not dissolve

Pipet ID #: 1cp07

Notes - \_\_\_\_\_

| B  | A                  | B | C      | D      | E      | F       | G   | H     | I     | J   | K    | L       | M       | N      | O      |
|----|--------------------|---|--------|--------|--------|---------|-----|-------|-------|-----|------|---------|---------|--------|--------|
| 1  | RAW DATA           |   |        |        |        |         |     |       |       |     |      |         |         |        |        |
| 2  | ELAN               |   |        |        |        |         |     |       |       |     |      |         |         |        |        |
| 3  |                    |   |        |        |        |         | ISI |       |       |     |      |         |         |        |        |
| 4  | 0632db             |   |        |        |        |         |     |       |       |     |      |         |         |        |        |
| 5  | code               |   |        |        |        |         |     |       |       |     |      |         |         |        |        |
| 6  | symbol             |   | ISI    | ISI    | ISI    | ISI     | LI  | LI    | Be    | 100 | 110  | 230     | 250     | 250    | 250    |
| 7  | MASSSES2           |   | 115    | 115    | 115    | 115     | 6   | 7     | 9     | 10  | 11   | 24      | 25      | 25     | 26     |
| 8  |                    |   |        |        |        |         |     |       |       |     |      |         |         |        |        |
| 9  | 1 CB               |   | 76     | 76     | 76     | 242     | 0   | 49    | 2     | 0   | 0    | 1502    | 36      | 11     | 7      |
| 10 | 2 CB               |   | 7      | 7      | 7      | 18      | 4   | 40    | 2     | 4   | 2    | 1656    | 62      | 9      | 9      |
| 11 | 3 Trace 0.1 ppm    |   | 508979 | 508979 | 508979 | 2224547 | 2   | 76    | 0     | 0   | 9    | 18566   | 24      | 7      | 11     |
| 12 | 4 Std 4C           |   | 539663 | 539663 | 539663 | 2368443 | 600 | 16198 | 12605 | 682 | 3985 | 4026004 | 1816793 | 262006 | 333084 |
| 13 | 5 Std 5C           |   | 577812 | 577812 | 577812 | 2477552 | 64  | 1694  | 1380  | 71  | 491  | 429114  | 162420  | 24072  | 30513  |
| 14 | 6 Std 6C           |   | 555179 | 555179 | 555179 | 2377965 | 13  | 273   | 100   | 7   | 73   | 45509   | 19439   | 2914   | 3768   |
| 15 | 7 T169             |   | 516063 | 516063 | 516063 | 2275872 | 60  | 1527  | 1271  | 182 | 1029 | 4038925 | 756159  | 107627 | 137631 |
| 16 | 8 Nd, I 0.1 ppm    |   | 49     | 49     | 49     | 934     | 4   | 76    | 0     | 0   | 0    | 8206    | 98      | 16     | 29     |
| 17 | 9 Trace 0.01 ppm   |   | 56620  | 56620  | 56620  | 245571  | 7   | 71    | 0     | 0   | 2    | 4688    | 116     | 16     | 11     |
| 18 | 10 CB              |   | 9      | 9      | 9      | 73      | 4   | 80    | 0     | 0   | 2    | 2076    | 58      | 18     | 22     |
| 19 | 11 CB              |   | 4      | 4      | 4      | 24      | 4   | 53    | 0     | 2   | 9    | 2220    | 53      | 9      | 9      |
| 20 | 12 CB              |   | 7      | 7      | 7      | 4       | 4   | 62    | 2     | 0   | 2    | 1478    | 58      | 9      | 9      |
| 21 | 13 CB              |   | 4      | 4      | 4      | 4       | 4   | 51    | 2     | 0   | 2    | 1471    | 58      | 9      | 7      |
| 22 | 14 Blank           |   | 2      | 2      | 2      | 2       | 7   | 78    | 0     | 0   | 4    | 1465    | 78      | 18     | 18     |
| 23 | 15                 |   | 9      | 9      | 9      | 124     | 0   | 51    | 0     | 0   | 2    | 1494    | 47      | 13     | 13     |
| 24 | 16                 |   | 9      | 9      | 9      | 27      | 2   | 44    | 0     | 2   | 4    | 1594    | 20      | 4      | 0      |
| 25 | 17                 |   | 9      | 9      | 9      | 169     | 7   | 71    | 0     | 2   | 2    | 1345    | 29      | 13     | 22     |
| 26 | 18                 |   | 11     | 11     | 11     | 38      | 2   | 62    | 0     | 0   | 4    | 1496    | 51      | 4      | 2      |
| 27 | 19                 |   | 2      | 2      | 2      | 67      | 2   | 49    | 0     | 0   | 4    | 1787    | 73      | 7      | 13     |
| 28 | 20                 |   | 11     | 11     | 11     | 122     | 2   | 36    | 0     | 2   | 9    | 1251    | 16      | 2      | 11     |
| 29 | 21                 |   | 7      | 7      | 7      | 93      | 7   | 53    | 0     | 2   | 7    | 1320    | 33      | 9      | 7      |
| 30 | 22                 |   | 11     | 11     | 11     | 111     | 2   | 64    | 0     | 0   | 2    | 1271    | 18      | 0      | 4      |
| 31 | 23                 |   | 7      | 7      | 7      | 10955   | 7   | 56    | 31    | 0   | 0    | 1402    | 42      | 7      | 9      |
| 32 | 24 LFB             |   | 16     | 16     | 16     | 11371   | 0   | 42    | 60    | 0   | 4    | 1354    | 62      | 7      | 9      |
| 33 | 25 Blank           |   | 9      | 9      | 9      | 9       | 2   | 42    | 0     | 0   | 7    | 1200    | 62      | 7      | 18     |
| 34 | 26 Trace 0.1 ppm   |   | 509487 | 509487 | 509487 | 2271353 | 9   | 73    | 0     | 2   | 18   | 21215   | 18      | 2      | 4      |
| 35 | 27 Nd, I 0.1 ppm   |   | 111    | 111    | 111    | 1311    | 4   | 67    | 0     | 2   | 2    | 7292    | 33      | 9      | 9      |
| 36 | 28 Std 4C          |   | 506633 | 506633 | 506633 | 2252722 | 769 | 16268 | 12779 | 667 | 3894 | 3887806 | 1739748 | 254609 | 321981 |
| 37 | 29 Blank           |   | 40     | 40     | 40     | 167     | 7   | 51    | 0     | 4   | 13   | 1607    | 225     | 29     | 40     |
| 38 | 30 CB              |   | 544798 | 544798 | 544798 | 2309696 | 0   | 107   | 7     | 0   | 20   | 2941    | 378     | 64     | 84     |
| 39 | 31 CB              |   | 541227 | 541227 | 541227 | 2308473 | 7   | 89    | 2     | 2   | 11   | 2694    | 333     | 58     | 69     |
| 40 | 32 CB              |   | 545944 | 545944 | 545944 | 2333068 | 0   | 113   | 4     | 4   | 18   | 2574    | 347     | 49     | 82     |
| 41 | 33 Blank           |   | 575278 | 575278 | 575278 | 2417712 | 2   | 44    | 2     | 13  | 47   | 3152    | 618     | 89     | 107    |
| 42 | 34 Blank           |   | 573468 | 573468 | 573468 | 2417701 | 0   | 89    | 0     | 13  | 78   | 3312    | 627     | 64     | 107    |
| 43 | 35 SN Chumk 080911 |   | 536043 | 536043 | 536043 | 2294312 | 4   | 107   | 9     | 73  | 358  | 56184   | 91825   | 13402  | 17171  |
| 44 | 36 LFB             |   | 540796 | 540796 | 540796 | 2428152 | 740 | 16145 | 11384 | 680 | 3592 | 4025699 | 1786871 | 261543 | 333763 |

| B  | A                  | B      | C      | D      | E       | F   | G   | H     | I     | J   | K    | L       | M       | N      | O      |
|----|--------------------|--------|--------|--------|---------|-----|-----|-------|-------|-----|------|---------|---------|--------|--------|
| 1  | RAW DATA           |        |        |        |         |     |     |       |       |     |      |         |         |        |        |
| 2  | ELAN               |        |        |        |         |     |     |       |       |     |      |         |         |        |        |
| 3  |                    |        |        |        |         |     | IS1 |       |       |     |      |         |         |        |        |
| 4  | 0632db             |        |        |        |         |     |     |       |       |     |      | IS2     |         |        |        |
| 5  | code               | 1      |        |        |         |     | 60  | 70    | 90    | 100 | 110  | 230     | 240     | 250    | 260    |
| 6  | symbol             | IS1    | IS2    | IS3    | IS4     | IS5 | Li  | Li    | Be    | B   | B    | Na      | Mg      | Mg     | Mg     |
| 7  | MASS\$ES2          | 115    | 115    | 115    | 115     | 115 | 6   | 7     | 9     | 10  | 11   | 23      | 24      | 25     | 26     |
| 8  |                    |        |        |        |         |     |     |       |       |     |      |         |         |        |        |
| 45 | 37 CB              | 539296 | 539296 | 539296 | 2313606 |     | 4   | 124   | 9     | 22  | 16   | 3228    | 413     | 60     | 80     |
| 46 | 38 Std. 4C         | 523917 | 523917 | 523917 | 2315816 |     | 747 | 15642 | 12736 | 678 | 3832 | 3936697 | 1740302 | 253732 | 320326 |
| 47 | 39 Trace 0.01 ppm  | 52396  | 52396  | 52396  | 231510  |     | 4   | 84    | 4     | 2   | 7    | 4268    | 202     | 29     | 29     |
| 48 | 40 CB              | 494373 | 494373 | 494373 | 2235639 |     | 0   | 91    | 0     | 2   | 22   | 3339    | 416     | 44     | 64     |
| 49 | 41 SN Chunk 080911 | 498163 | 498163 | 498163 | 2284984 |     | 7   | 73    | 0     | 4   | 40   | 6765    | 1334    | 160    | 236    |
| 50 | 42 CB              | 498864 | 498864 | 498864 | 2269239 |     | 2   | 100   | 0     | 2   | 53   | 3785    | 420     | 53     | 87     |
| 51 | 43 Std. 4C         | 528280 | 528280 | 528280 | 2541393 |     | 773 | 16461 | 13377 | 740 | 3770 | 3935627 | 1698121 | 246502 | 313529 |

| B  | A                  | B    | Q      | R     | S     | T       | W     | Z      | AA     | AB    | AD   | AF   | AH     | AI     | AJ     |
|----|--------------------|------|--------|-------|-------|---------|-------|--------|--------|-------|------|------|--------|--------|--------|
| 1  | RAW DATA           |      |        |       |       | 300     | 400   |        |        |       |      |      |        |        |        |
| 2  | ELAN               |      |        |       |       |         |       |        |        |       |      |      |        |        |        |
| 3  |                    |      |        |       |       |         |       |        |        |       |      |      |        |        |        |
| 4  | 0632db             |      |        |       |       |         |       |        |        |       |      |      |        |        |        |
| 5  | code               | 270  | 280    | 290   | 300   | 310     | 320   | 330    | 340    | 350   | 360  | 370  | 380    | 390    | 400    |
| 6  | symbol             | 270  | 280    | 290   | 300   | 310     | 320   | 330    | 340    | 350   | 360  | 370  | 380    | 390    | 400    |
| 7  | MASSSES2           | 270  | 280    | 290   | 300   | 310     | 320   | 330    | 340    | 350   | 360  | 370  | 380    | 390    | 400    |
| 8  |                    |      |        |       |       |         |       |        |        |       |      |      |        |        |        |
| 9  | 1 CB               | 31   | 729    | 78    | 13    | 2458    | 2     | 20     | 22     | 22    | 0    | 0    | 22     | 22     | 140    |
| 10 | 2 CB               | 29   | 771    | 47    | 13    | 2623    | 0     | 22     | 9      | 9     | 0    | 7    | 18     | 18     | 149    |
| 11 | 3 Trace 0.1 ppm    | 36   | 889    | 76    | 20    | 3034    | 4     | 11     | 54195  | 54195 | 253  | 2    | 320    | 320    | 236    |
| 12 | 4 Std 4C           | 5388 | 296245 | 17225 | 35935 | 1306613 | 5021  | 79741  | 314046 | 6133  | 5520 | 520  | 218107 | 218107 | 295252 |
| 13 | 5 Std 5C           | 1036 | 32035  | 1976  | 3701  | 117469  | 493   | 8651   | 343888 | 653   | 598  | 598  | 22910  | 22910  | 31209  |
| 14 | 6 Std 6C           | 200  | 4028   | 256   | 400   | 17400   | 53    | 862    | 332521 | 89    | 64   | 64   | 3490   | 3490   | 3454   |
| 15 | 7 T169             | 1700 | 84378  | 4881  | 60    | 325676  | 15565 | 262248 | 316939 | 56    | 56   | 56   | 16568  | 16568  | 23609  |
| 16 | 8 Nd, I 0.1 ppm    | 104  | 1118   | 69    | 18    | 3619    | 0     | 56     | 40     | 7     | 7    | 2    | 49     | 49     | 42     |
| 17 | 9 Trace 0.01 ppm   | 36   | 1067   | 93    | 11    | 3954    | 4     | 58     | 6287   | 13    | 4    | 4    | 396    | 396    | 198    |
| 18 | 10 CB              | 24   | 967    | 82    | 22    | 3703    | 2     | 0      | 4      | 0     | 0    | 2    | 29     | 29     | 204    |
| 19 | 11 CB              | 18   | 985    | 87    | 18    | 3543    | 2     | 16     | 4      | 4     | 2    | 2    | 31     | 31     | 191    |
| 20 | 12 CB              | 13   | 725    | 69    | 16    | 3481    | 4     | 40     | 16     | 0     | 0    | 2    | 24     | 24     | 87     |
| 21 | 13 CB              | 13   | 805    | 80    | 4     | 3405    | 0     | 29     | 7      | 2     | 2    | 2    | 31     | 31     | 78     |
| 22 | 14 Blank           | 11   | 778    | 64    | 27    | 3332    | 0     | 29     | 13     | 13    | 0    | 0    | 22     | 22     | 62     |
| 23 | 15                 | 136  | 1051   | 84    | 47    | 3296    | 7     | 44     | 4      | 4     | 24   | 4    | 347    | 347    | 273    |
| 24 | 16                 | 98   | 993    | 102   | 18    | 3381    | 2     | 44     | 4      | 7     | 7    | 0    | 302    | 302    | 396    |
| 25 | 17                 | 124  | 849    | 89    | 2     | 3130    | 2     | 44     | 11     | 7     | 7    | 2    | 324    | 324    | 260    |
| 26 | 18                 | 102  | 909    | 73    | 24    | 3107    | 2     | 29     | 16     | 0     | 0    | 4    | 256    | 256    | 404    |
| 27 | 19                 | 87   | 871    | 104   | 22    | 3234    | 4     | 47     | 27     | 27    | 0    | 2    | 251    | 251    | 238    |
| 28 | 20                 | 93   | 865    | 91    | 11    | 2992    | 4     | 40     | 16     | 7     | 4    | 4    | 249    | 249    | 392    |
| 29 | 21                 | 80   | 627    | 64    | 18    | 3096    | 0     | 40     | 0      | 0     | 0    | 4    | 300    | 300    | 233    |
| 30 | 22                 | 91   | 673    | 62    | 22    | 3067    | 7     | 27     | 16     | 2     | 2    | 9    | 276    | 276    | 233    |
| 31 | 23                 | 696  | 613    | 62    | 16    | 2834    | 7     | 47     | 7      | 7     | 0    | 2    | 278    | 278    | 35329  |
| 32 | 24 LFB             | 765  | 698    | 69    | 13    | 3339    | 0     | 27     | 13     | 13    | 2    | 0    | 53     | 53     | 40022  |
| 33 | 25 Blank           | 16   | 727    | 56    | 22    | 3496    | 0     | 13     | 9      | 9     | 2    | 7    | 20     | 20     | 71     |
| 34 | 26 Trace 0.1 ppm   | 31   | 893    | 91    | 27    | 3479    | 0     | 27     | 57090  | 244   | 11   | 11   | 202    | 202    | 260    |
| 35 | 27 Nd, I 0.1 ppm   | 104  | 880    | 80    | 13    | 3123    | 4     | 27     | 42     | 2     | 4    | 4    | 51     | 51     | 44     |
| 36 | 28 Std 4C          | 4999 | 280690 | 16446 | 33983 | 1224892 | 4543  | 75735  | 298783 | 5600  | 4993 | 4993 | 206949 | 206949 | 281616 |
| 37 | 29 Blank           | 20   | 776    | 60    | 18    | 3623    | 7     | 33     | 27     | 9     | 9    | 2    | 71     | 71     | 96     |
| 38 | 30 CB              | 167  | 845    | 60    | 38    | 4174    | 7     | 51     | 320212 | 9     | 2    | 2    | 1576   | 1576   | 331    |
| 39 | 31 CB              | 153  | 876    | 76    | 27    | 4192    | 2     | 31     | 325088 | 4     | 4    | 4    | 1509   | 1509   | 267    |
| 40 | 32 CB              | 91   | 862    | 80    | 18    | 4083    | 9     | 44     | 327716 | 0     | 9    | 9    | 1618   | 1618   | 280    |
| 41 | 33 Blank           | 1029 | 911    | 91    | 29    | 3799    | 38    | 391    | 331533 | 4     | 4    | 16   | 391    | 391    | 169    |
| 42 | 34 Blank           | 1016 | 860    | 67    | 31    | 3754    | 4     | 449    | 330188 | 4     | 4    | 11   | 360    | 360    | 116    |
| 43 | 35 SN Chunk 080911 | 8112 | 46176  | 2709  | 3365  | 7025    | 453   | 8017   | 305879 | 680   | 638  | 638  | 27974  | 27974  | 22779  |
| 44 | 36 LFB             | 6193 | 263225 | 15173 | 31208 | 1308415 | 5048  | 79935  | 328452 | 5953  | 5460 | 5460 | 213622 | 213622 | 289492 |

| B  | A                  | B    | Q      | R     | S     | T       | W    | Z     | AA     | AB   | AD   | AF     | AH     | AI     | AJ  |
|----|--------------------|------|--------|-------|-------|---------|------|-------|--------|------|------|--------|--------|--------|-----|
| 1  | RAW DATA           |      |        |       |       |         |      |       |        |      |      |        |        |        |     |
| 2  | ELAN               |      |        |       | 300   |         | 400  |       |        |      |      |        |        |        |     |
| 3  |                    |      |        |       |       |         |      |       |        |      |      |        |        |        |     |
| 4  | 0632db             |      |        |       |       |         |      |       |        |      |      |        |        |        |     |
| 5  | code               | 270  | 280    | 290   | 300   | 310     | 320  | 330   | 340    | 350  | 360  | 370    | 380    | 390    | 400 |
| 6  | symbol             | AL   | SI     | SI    | SI    | SI      | SI   | SI    | SI     | SI   | SI   | SI     | SI     | SI     | SI  |
| 7  | MASS\$S2           | 27   | 28     | 29    | 30    | 31      | 32   | 33    | 34     | 35   | 36   | 37     | 38     | 39     | 40  |
| 8  |                    |      |        |       |       |         |      |       |        |      |      |        |        |        |     |
| 45 | 37 CB              | 102  | 849    | 87    | 11    | 3941    | 2    | 49    | 318977 | 4    | 7    | 900    | 900    | 324    |     |
| 46 | 38 Std 4C          | 5228 | 286690 | 16621 | 34551 | 1275189 | 4864 | 78655 | 306571 | 5706 | 5293 | 212086 | 212086 | 287215 |     |
| 47 | 39 Trace 0.01 ppm  | 27   | 1036   | 64    | 16    | 3314    | 0    | 27    | 5880   | 29   | 4    | 229    | 229    | 218    |     |
| 48 | 40 CB              | 282  | 1011   | 60    | 11    | 2761    | 7    | 84    | 259507 | 2    | 7    | 209    | 209    | 260    |     |
| 49 | 41 SN Chunk 080911 | 413  | 1662   | 124   | 62    | 3872    | 9    | 249   | 265524 | 13   | 18   | 409    | 409    | 551    |     |
| 50 | 42 CB              | 264  | 1180   | 93    | 20    | 3072    | 7    | 136   | 267107 | 0    | 0    | 164    | 164    | 211    |     |
| 51 | 43 Std 4C          | 4759 | 254647 | 14888 | 30567 | 1162107 | 4495 | 74260 | 296777 | 5453 | 5088 | 221766 | 221766 | 302992 |     |

| B  | A                  | B     | AK    | AL       | AM     | AN        | AO       | AP       | AQ      | AR       | AS       | AT       | AV      | AW     | AX      |
|----|--------------------|-------|-------|----------|--------|-----------|----------|----------|---------|----------|----------|----------|---------|--------|---------|
| 1  | RAW DATA           |       |       |          |        |           |          |          |         |          |          |          |         |        |         |
| 2  | ELAN               |       |       |          |        |           |          |          |         |          |          |          |         |        |         |
| 3  |                    |       |       |          |        |           |          |          |         |          |          |          |         |        |         |
| 4  | 0632db             |       |       |          |        |           |          |          |         |          |          |          |         |        |         |
| 5  | code               | 530   | 591   | 540      | 550    | 560       | 570      | 580      | 590     | 600      | 610      | 620      | 630     | 640    |         |
| 6  | symbol             | Cl    | ClO   | Fe       | Mn     | Fe        | Fe       | Ni       | Co      | Ni       | Ni       | Co       | Ni      | Co     | Zn      |
| 7  | MASSES2            | 53    | 54    | 55       | 56     | 57        | 58       | 59       | 60      | 61       | 62       | 63       | 64      |        |         |
| 8  |                    |       |       |          |        |           |          |          |         |          |          |          |         |        |         |
| 9  | 1 CB               | 29    | 29    | 98       | 49     | 1009      | 16       | 104      | 80      | 27       | 27       | 27       | 9       | 258    | 340     |
| 10 | 2 CB               | 36    | 36    | 91       | 38     | 1009      | 24       | 111      | 78      | 29       | 29       | 29       | 0       | 322    | 367     |
| 11 | 3 Trace 0.1 ppm    | 142   | 142   | 84       | 9      | 776       | 11       | 87       | 78      | 36       | 36       | 36       | 0       | 218    | 118     |
| 12 | 4 Std 4C           | 36714 | 36714 | 1371489  | 143485 | 25194610  | 627485   | 450078   | 546919  | 157092   | 157092   | 157092   | 24302   | 449139 | 83017   |
| 13 | 5 Std 5C           | 4286  | 4286  | 146484   | 15420  | 2704209   | 66781    | 47954    | 57366   | 17078    | 17078    | 17078    | 2629    | 49663  | 9069    |
| 14 | 6 Std 6C           | 862   | 862   | 15055    | 1507   | 273231    | 6800     | 4915     | 5769    | 1702     | 1702     | 1702     | 260     | 5099   | 1682    |
| 15 | 7 Tr169            | 3101  | 3101  | 2583     | 37026  | 31468     | 973      | 35867    | 10232   | 15333    | 15333    | 15333    | 2383    | 62499  | 15298   |
| 16 | 8 Nd, I 0.1 ppm    | 16    | 16    | 67       | 11     | 718       | 18       | 20       | 78      | 16       | 16       | 16       | 7       | 140    | 104     |
| 17 | 9 Trace 0.01 ppm   | 191   | 191   | 162      | 20     | 1351      | 16       | 136      | 40      | 47       | 47       | 47       | 4       | 407    | 387     |
| 18 | 10 CB              | 44    | 44    | 136      | 33     | 1311      | 38       | 102      | 104     | 53       | 53       | 53       | 9       | 353    | 447     |
| 19 | 11 CB              | 33    | 33    | 113      | 29     | 1411      | 16       | 100      | 120     | 47       | 47       | 47       | 13      | 338    | 413     |
| 20 | 12 CB              | 9     | 9     | 411      | 69     | 6511      | 147      | 44       | 236     | 13       | 13       | 13       | 0       | 311    | 91      |
| 21 | 13 CB              | 22    | 22    | 416      | 56     | 6429      | 153      | 38       | 191     | 2        | 2        | 2        | 0       | 300    | 69      |
| 22 | 14 Blank           | 18    | 18    | 429      | 53     | 6438      | 156      | 73       | 169     | 11       | 11       | 11       | 4       | 342    | 80      |
| 23 | 15                 | 18    | 18    | 287      | 58     | 4065      | 73       | 69       | 267     | 16       | 16       | 16       | 4       | 540    | 169     |
| 24 | 16                 | 56    | 56    | 309      | 31     | 3877      | 98       | 71       | 249     | 13       | 13       | 13       | 2       | 518    | 156     |
| 25 | 17                 | 36    | 36    | 304      | 42     | 4072      | 87       | 51       | 251     | 13       | 13       | 13       | 0       | 516    | 198     |
| 26 | 18                 | 62    | 62    | 249      | 27     | 3487      | 78       | 51       | 240     | 11       | 11       | 11       | 4       | 538    | 151     |
| 27 | 19                 | 27    | 27    | 207      | 38     | 2538      | 60       | 51       | 207     | 16       | 16       | 16       | 4       | 418    | 158     |
| 28 | 20                 | 56    | 56    | 227      | 36     | 2970      | 49       | 38       | 224     | 11       | 11       | 11       | 0       | 469    | 200     |
| 29 | 21                 | 24    | 24    | 184      | 31     | 2272      | 49       | 51       | 233     | 13       | 13       | 13       | 0       | 376    | 158     |
| 30 | 22                 | 38    | 38    | 173      | 20     | 2200      | 42       | 42       | 220     | 11       | 11       | 11       | 0       | 422    | 133     |
| 31 | 23                 | 4379  | 4379  | 1376     | 38     | 2629      | 67       | 2885     | 171     | 1247     | 1247     | 1247     | 173     | 85193  | 204     |
| 32 | 24 LFB             | 4910  | 4910  | 1545     | 44     | 2409      | 58       | 3470     | 196     | 1458     | 1458     | 1458     | 249     | 104160 | 109     |
| 33 | 25 Blank           | 2     | 2     | 402      | 67     | 6142      | 136      | 53       | 249     | 4        | 4        | 4        | 2       | 342    | 80      |
| 34 | 26 Trace 0.1 ppm   | 80    | 80    | 107      | 16     | 838       | 13       | 62       | 78      | 20       | 20       | 20       | 2       | 300    | 102     |
| 35 | 27 Nd, I 0.1 ppm   | 13    | 13    | 62       | 22     | 633       | 2        | 16       | 93      | 4        | 4        | 4        | 4       | 104    | 49      |
| 36 | 28 Std 4C          | 34944 | 34944 | 1297566  | 134388 | 23607910  | 592091   | 424237   | 519431  | 147473   | 147473   | 147473   | 22184   | 421419 | 78709   |
| 37 | 29 Blank           | 38    | 38    | 549      | 62     | 8971      | 229      | 76       | 220     | 31       | 31       | 31       | 11      | 402    | 84      |
| 38 | 30 CB              | 653   | 653   | 471      | 93     | 6838      | 142      | 207      | 284     | 76       | 76       | 76       | 16      | 567    | 200     |
| 39 | 31 CB              | 602   | 602   | 496      | 100    | 6791      | 189      | 178      | 207     | 76       | 76       | 76       | 11      | 525    | 238     |
| 40 | 32 CB              | 669   | 669   | 469      | 100    | 6603      | 182      | 193      | 267     | 93       | 93       | 93       | 20      | 447    | 222     |
| 41 | 33 Blank           | 127   | 127   | 309      | 58     | 3825      | 129      | 100      | 31      | 71       | 71       | 71       | 18      | 940    | 1107    |
| 42 | 34 Blank           | 107   | 107   | 288      | 58     | 3756      | 87       | 153      | 42      | 60       | 60       | 60       | 13      | 893    | 1056    |
| 43 | 35 5N Chunk 080911 | 2883  | 2883  | 32624710 | 51334  | 622801900 | 16264220 | 90041580 | 5995258 | 37786810 | 37786810 | 37786810 | 5980173 | 425620 | 1817685 |
| 44 | 36 LFB             | 35345 | 35345 | 1347773  | 141454 | 24746400  | 624964   | 450454   | 533946  | 156884   | 156884   | 156884   | 24216   | 420500 | 68388   |

| B  | A                  | B     | AK    | AL      | AM     | AN       | AO     | AP      | AQ     | AR     | AS     | AT    | AV     | AW    | AX |
|----|--------------------|-------|-------|---------|--------|----------|--------|---------|--------|--------|--------|-------|--------|-------|----|
| 1  | RAW DATA           |       |       |         |        |          |        |         |        |        |        |       |        |       |    |
| 2  | ELAN               |       |       |         |        |          |        |         |        |        |        |       |        |       |    |
| 3  |                    |       |       |         |        |          |        |         |        |        |        |       |        |       |    |
| 4  | 0632db             |       |       |         |        |          |        |         |        |        |        |       |        |       |    |
| 5  | code               |       |       |         |        |          |        |         |        |        |        |       |        |       |    |
| 6  | symbol             |       |       |         |        |          |        |         |        |        |        |       |        |       |    |
| 7  | MASSES2            |       |       |         |        |          |        |         |        |        |        |       |        |       |    |
| 8  |                    |       |       |         |        |          |        |         |        |        |        |       |        |       |    |
| 45 | 37 CB              | 351   | 351   | 876     | 69     | 14884    | 371    | 1307    | 336    | 449    | 449    | 82    | 500    | 227   |    |
| 46 | 38 Std 4C          | 35898 | 35898 | 1308455 | 137282 | 23981190 | 603994 | 432782  | 528699 | 150388 | 150388 | 23527 | 428832 | 81047 |    |
| 47 | 39 Trace 0.01 ppm  | 100   | 100   | 231     | 20     | 3550     | 73     | 273     | 122    | 109    | 109    | 16    | 389    | 384   |    |
| 48 | 40 CB              | 87    | 87    | 140     | 27     | 1919     | 24     | 336     | 38     | 158    | 158    | 42    | 2145   | 451   |    |
| 49 | 41 SN Chunk 080911 | 113   | 113   | 347899  | 489    | 6253618  | 160381 | 1018896 | 63155  | 436001 | 436001 | 68122 | 12243  | 20737 |    |
| 50 | 42 CB              | 84    | 84    | 220     | 29     | 2962     | 69     | 456     | 89     | 211    | 211    | 47    | 2387   | 498   |    |
| 51 | 43 Std 4C          | 37288 | 37288 | 1369801 | 136273 | 25001380 | 625567 | 467521  | 571485 | 164479 | 164479 | 25564 | 472480 | 83154 |    |



| B  | A                  | AY     | AZ    | BB    | BC      | BE    | BF    | BG    | BH     | BI    | BJ    | BL   | BM    | BN   |
|----|--------------------|--------|-------|-------|---------|-------|-------|-------|--------|-------|-------|------|-------|------|
| 1  | RAW DATA           |        |       |       |         |       |       |       |        |       |       |      |       |      |
| 2  | ELAN               |        |       |       |         |       |       |       |        |       |       |      |       |      |
| 3  |                    |        |       |       |         |       |       |       |        |       |       |      |       |      |
| 4  | 0632db             |        |       |       |         |       |       |       |        |       |       |      |       |      |
| 5  | code               | 650    | 660   | 680   | 690     | 710   | 720   | 730   | 740    | 750   | 751   | 760  | 780   | 790  |
| 6  | symbol             | 01     | 02    | 03    | 04      | 05    | 06    | 07    | 08     | 09    | 10    | 11   | 12    | 13   |
| 7  | MASSSES2           | 65     | 66    | 68    | 69      | 71    | 72    | 73    | 74     | 75    | 75    | 76   | 78    | 79   |
| 8  |                    |        |       |       |         |       |       |       |        |       |       |      |       |      |
| 9  | 1 CB               | 151    | 182   | 147   | 20      | 7     | 2     | 0     | 0      | 7     | 7     | 2    | 11    | 44   |
| 10 | 2 CB               | 129    | 213   | 102   | 7       | 0     | 2     | 2     | 2      | 4     | 4     | 0    | 0     | 56   |
| 11 | 3 Trace 0.1 ppm    | 102    | 33    | 44    | 80550   | 60960 | 360   | 40    | 1507   | 1000  | 1000  | 4017 | 2429  | 6665 |
| 12 | 4 Std 4C           | 220876 | 47967 | 39766 | 39515   | 3725  | 44213 | 13317 | 67323  | 28008 | 28008 | 6260 | 22002 | 4741 |
| 13 | 5 Std 5C           | 24585  | 5328  | 4486  | 4339    | 451   | 4546  | 1298  | 7201   | 3023  | 3023  | 667  | 2309  | 816  |
| 14 | 6 Std 6C           | 2669   | 1051  | 836   | 407     | 49    | 440   | 116   | 713    | 444   | 444   | 82   | 278   | 402  |
| 15 | 7 Tr169            | 31116  | 9155  | 8268  | 16440   | 11    | 27    | 13    | 40     | 2314  | 2314  | 27   | 69    | 607  |
| 16 | 8 Nd, I 0.1 ppm    | 91     | 51    | 29    | 7       | 5279  | 4617  | 3370  | 1291   | 1280  | 1280  | 2    | 16    | 113  |
| 17 | 9 Trace 0.01 ppm   | 180    | 293   | 189   | 9189    | 6963  | 58    | 2     | 178    | 136   | 136   | 458  | 264   | 898  |
| 18 | 10 CB              | 182    | 287   | 180   | 11      | 0     | 7     | 4     | 7      | 7     | 7     | 0    | 9     | 93   |
| 19 | 11 CB              | 180    | 247   | 202   | 16      | 0     | 9     | 2     | 4      | 11    | 11    | 7    | 18    | 58   |
| 20 | 12 CB              | 138    | 47    | 38    | 7       | 2     | 7     | 2     | 2      | 18    | 18    | 2    | 9     | 111  |
| 21 | 13 CB              | 151    | 51    | 42    | 0       | 0     | 2     | 4     | 0      | 7     | 7     | 7    | 13    | 73   |
| 22 | 14 Blank           | 198    | 33    | 49    | 7       | 2     | 0     | 2     | 4      | 9     | 9     | 7    | 7     | 87   |
| 23 | 15                 | 253    | 104   | 109   | 1477213 | 36    | 31    | 29    | 7      | 13    | 13    | 158  | 52424 | 169  |
| 24 | 16                 | 251    | 109   | 87    | 1505905 | 20    | 22    | 20    | 2      | 27    | 27    | 107  | 51534 | 156  |
| 25 | 17                 | 233    | 124   | 98    | 1589417 | 22    | 27    | 24    | 4      | 22    | 22    | 167  | 50722 | 167  |
| 26 | 18                 | 256    | 127   | 71    | 1556724 | 13    | 4     | 13    | 0      | 20    | 20    | 142  | 51102 | 176  |
| 27 | 19                 | 193    | 78    | 76    | 1454180 | 11    | 11    | 18    | 7      | 13    | 13    | 122  | 47821 | 164  |
| 28 | 20                 | 240    | 149   | 91    | 1483548 | 18    | 22    | 13    | 18     | 22    | 22    | 127  | 49502 | 147  |
| 29 | 21                 | 204    | 111   | 69    | 1575854 | 31    | 7     | 13    | 4      | 24    | 24    | 153  | 47049 | 162  |
| 30 | 22                 | 247    | 107   | 84    | 1630420 | 22    | 42    | 11    | 4      | 38    | 38    | 144  | 47782 | 149  |
| 31 | 23                 | 42172  | 82    | 189   | 1556608 | 1331  | 218   | 164   | 73     | 1298  | 1298  | 218  | 47333 | 204  |
| 32 | 24 LFB             | 51542  | 31    | 158   | 3253    | 1667  | 207   | 162   | 96     | 1256  | 1256  | 67   | 89    | 96   |
| 33 | 25 Blank           | 218    | 38    | 36    | 258     | 0     | 9     | 2     | 2      | 13    | 13    | 4    | 16    | 49   |
| 34 | 26 Trace 0.1 ppm   | 153    | 49    | 44    | 81820   | 62897 | 404   | 31    | 1574   | 1102  | 1102  | 3961 | 2307  | 6987 |
| 35 | 27 Nd, I 0.1 ppm   | 40     | 22    | 24    | 33      | 4472  | 4152  | 3090  | 1153   | 1085  | 1085  | 16   | 9     | 107  |
| 36 | 28 Std 4C          | 210044 | 46363 | 37539 | 37067   | 3519  | 41744 | 12510 | 63335  | 26344 | 26344 | 6122 | 20181 | 4263 |
| 37 | 29 Blank           | 213    | 53    | 44    | 49      | 9     | 22    | 4     | 7      | 18    | 18    | 0    | 16    | 151  |
| 38 | 30 CB              | 264    | 109   | 107   | 33      | 44    | 22    | 2     | 16     | 44    | 44    | 31   | 11    | 384  |
| 39 | 31 CB              | 222    | 144   | 76    | 38      | 0     | 13    | 7     | 18     | 76    | 76    | 13   | 20    | 398  |
| 40 | 32 CB              | 253    | 107   | 129   | 40      | 7     | 22    | 4     | 27     | 67    | 67    | 16   | 33    | 404  |
| 41 | 33 Blank           | 447    | 667   | 567   | 24      | 9     | 7     | 2     | 11     | 13    | 13    | 13   | 9     | 389  |
| 42 | 34 Blank           | 384    | 693   | 473   | 27      | 4     | 9     | 9     | 4      | 9     | 9     | 2    | 7     | 327  |
| 43 | 35 SN Chunk 080911 | 211429 | 12298 | 11382 | 80094   | 46618 | 76876 | 22917 | 112885 | 2849  | 2849  | 16   | 18    | 313  |
| 44 | 36 LFB             | 209098 | 39762 | 33081 | 39869   | 29    | 173   | 38    | 509    | 23144 | 23144 | 4686 | 16096 | 327  |

| B  | A                  | B      | AZ    | AY    | BC    | BE   | BF    | BG    | BH    | BI    | BJ    | BL   | BM    | BN   |
|----|--------------------|--------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|------|
| 1  | RAW DATA           |        |       |       |       |      |       |       |       |       |       |      |       |      |
| 2  | ELAN               |        |       |       |       |      |       |       |       |       |       |      |       |      |
| 3  |                    |        |       |       |       |      |       |       |       |       |       |      |       |      |
| 4  | 0632bb             |        |       |       |       |      |       |       |       |       |       |      |       |      |
| 5  | code               | 650    | 650   | 680   | 590   | 710  | 720   | 730   | 749   | 750   | 751   | 770  | 780   | 790  |
| 6  | symbol             | Cu     | Cu    | Zn    | Gr    | Ca   | Ge    | Ge    | Ge    | As    | As    | Se   | Se    | Bi   |
| 7  | MASS2              | 66     | 66    | 68    | 69    | 70   | 72    | 73    | 74    | 75    | 75    | 77   | 78    | 79   |
| 8  |                    |        |       |       |       |      |       |       |       |       |       |      |       |      |
| 45 | 37 CB              | 224    | 120   | 78    | 38    | 2    | 24    | 7     | 18    | 60    | 60    | 16   | 18    | 451  |
| 46 | 38 Std 4C          | 211867 | 46999 | 38167 | 37671 | 3737 | 43049 | 13113 | 65482 | 26672 | 26672 | 6360 | 21499 | 4526 |
| 47 | 39 Trace 0.01 ppm  | 213    | 293   | 218   | 8330  | 6422 | 36    | 11    | 176   | 158   | 158   | 404  | 249   | 936  |
| 48 | 40 CB              | 1082   | 291   | 200   | 20    | 0    | 13    | 0     | 0     | 13    | 13    | 9    | 7     | 158  |
| 49 | 41 SN Chunk 080911 | 6231   | 851   | 653   | 740   | 431  | 807   | 229   | 1096  | 44    | 44    | 0    | 13    | 213  |
| 50 | 42 CB              | 1109   | 269   | 178   | 36    | 0    | 4     | 0     | 7     | 22    | 22    | 2    | 2     | 169  |
| 51 | 43 Std 4C          | 235155 | 48109 | 38811 | 40010 | 4057 | 43187 | 12823 | 66348 | 27262 | 27262 | 5802 | 19847 | 3410 |

| B  | A                  | B    | BP    | BQ     | BT     | BW      | BX     | BY    | BZ    | CB     | CD     | CF     | CH     | CJ     | CL      |
|----|--------------------|------|-------|--------|--------|---------|--------|-------|-------|--------|--------|--------|--------|--------|---------|
| 1  | RAW DATA           |      |       |        |        |         |        |       |       |        |        |        |        |        |         |
| 2  | ELAN               |      |       |        |        |         |        |       |       |        |        |        |        |        |         |
| 3  |                    |      |       |        |        |         |        |       |       |        |        |        |        |        |         |
| 4  | 0632db             |      |       |        |        |         |        |       |       |        |        |        |        |        |         |
| 5  | code               | 820  | 820   | 850    | 830    | 890     | 890    | 900   | 910   | 930    | 950    | 970    | 990    | 1010   | 1030    |
| 6  | symbol             | 85   | 85    | 88     | 88     | 89      | 89     | 90    | 91    | 92     | 95     | 97     | 99     | 101    | 103     |
| 7  | MASSES2            |      |       |        |        |         |        |       |       |        |        |        |        |        |         |
| 8  |                    |      |       |        |        |         |        |       |       |        |        |        |        |        |         |
| 9  | 1 CB               | 58   | 2     | 0      | 11     | 4       | 4      | 58    | 22    | 2      | 20     | 11     | 0      | 0      | 2       |
| 10 | 2 CB               | 67   | 2     | 2      | 20     | 0       | 0      | 78    | 18    | 0      | 9      | 9      | 4      | 0      | 9       |
| 11 | 3 Trace 0.1 ppm    | 7741 | 4670  | 117715 | 1731   | 416     | 311433 | 70932 | 70932 | 462180 | 31     | 13     | 173371 | 252108 | 78      |
| 12 | 4 Std 4C           | 5086 | 11077 | 126091 | 156375 | 4030866 | 1569   | 19983 | 369   | 19983  | 183132 | 120346 | 44     | 67     | 1170794 |
| 13 | 5 Std 5C           | 653  | 1049  | 12870  | 16401  | 411827  | 2967   | 667   | 667   | 847    | 19110  | 12227  | 7      | 11     | 124686  |
| 14 | 6 Std 6C           | 273  | 144   | 1362   | 1582   | 41132   | 1929   | 436   | 436   | 309    | 1998   | 1334   | 4      | 4      | 12610   |
| 15 | 7 T169             | 485  | 47    | 6207   | 274881 | 438     | 771    | 204   | 204   | 331    | 127589 | 83285  | 4      | 0      | 58      |
| 16 | 8 Nd, I 0.1 ppm    | 120  | 4     | 13     | 47     | 1505    | 1122   | 262   | 262   | 120    | 818    | 536    | 4      | 13     | 9       |
| 17 | 9 Trace 0.01 ppm   | 1058 | 542   | 13282  | 269    | 116     | 34497  | 7859  | 7859  | 38900  | 38     | 16     | 19150  | 28176  | 29      |
| 18 | 10 CB              | 96   | 4     | 2      | 20     | 16      | 84     | 11    | 11    | 176    | 31     | 13     | 22     | 11     | 20      |
| 19 | 11 CB              | 82   | 4     | 4      | 16     | 2       | 76     | 24    | 24    | 147    | 13     | 18     | 13     | 4      | 9       |
| 20 | 12 CB              | 113  | 4     | 2      | 11     | 4       | 16     | 4     | 4     | 129    | 29     | 20     | 9      | 11     | 16      |
| 21 | 13 CB              | 84   | 9     | 7      | 31     | 0       | 13     | 7     | 7     | 127    | 13     | 9      | 4      | 13     | 7       |
| 22 | 14 Blank           | 78   | 9     | 7      | 18     | 0       | 16     | 0     | 0     | 122    | 13     | 11     | 11     | 13     | 18      |
| 23 | 15                 | 56   | 16    | 0      | 36     | 1047    | 182    | 56    | 56    | 129    | 140    | 71     | 7      | 4      | 9       |
| 24 | 16                 | 49   | 4     | 4      | 33     | 1545    | 167    | 33    | 33    | 113    | 58     | 49     | 7      | 9      | 9       |
| 25 | 17                 | 56   | 2     | 2      | 42     | 1025    | 182    | 49    | 49    | 113    | 122    | 62     | 2      | 2      | 7       |
| 26 | 18                 | 42   | 2     | 4      | 38     | 1525    | 173    | 42    | 42    | 69     | 82     | 89     | 11     | 7      | 16      |
| 27 | 19                 | 58   | 2     | 7      | 56     | 2187    | 138    | 16    | 16    | 69     | 127    | 60     | 11     | 11     | 9       |
| 28 | 20                 | 53   | 2     | 4      | 67     | 3499    | 67     | 16    | 16    | 87     | 136    | 129    | 2      | 2      | 0       |
| 29 | 21                 | 51   | 9     | 9      | 38     | 2863    | 76     | 24    | 24    | 87     | 153    | 122    | 4      | 9      | 4       |
| 30 | 22                 | 80   | 13    | 2      | 40     | 2950    | 62     | 20    | 20    | 89     | 131    | 87     | 0      | 7      | 9       |
| 31 | 23                 | 82   | 56    | 58     | 122    | 20094   | 104    | 24    | 24    | 100    | 3056   | 1991   | 2      | 4      | 9       |
| 32 | 24 LFB             | 87   | 82    | 62     | 71     | 18456   | 40     | 4     | 4     | 107    | 3098   | 1936   | 7      | 2      | 20      |
| 33 | 25 Blank           | 47   | 13    | 4      | 11     | 2       | 7      | 4     | 4     | 69     | 20     | 16     | 2      | 4      | 7       |
| 34 | 26 Trace 0.1 ppm   | 8008 | 4866  | 117941 | 1785   | 400     | 320104 | 73406 | 73406 | 502251 | 36     | 18     | 178781 | 256525 | 80      |
| 35 | 27 Nd, I 0.1 ppm   | 138  | 9     | 36     | 18     | 1265    | 1005   | 202   | 202   | 462    | 700    | 422    | 71     | 89     | 0       |
| 36 | 28 Std 4C          | 4848 | 10312 | 117831 | 146431 | 3793248 | 1816   | 447   | 447   | 12027  | 175713 | 114843 | 40     | 40     | 1106696 |
| 37 | 29 Blank           | 164  | 7     | 16     | 31     | 329     | 9      | 0     | 0     | 169    | 67     | 56     | 24     | 22     | 158     |
| 38 | 30 CB              | 220  | 13    | 18     | 76     | 209     | 176    | 47    | 47    | 273    | 120    | 58     | 2      | 7      | 76      |
| 39 | 31 CB              | 218  | 4     | 9      | 89     | 191     | 202    | 60    | 60    | 258    | 93     | 49     | 0      | 0      | 53      |
| 40 | 32 CB              | 224  | 7     | 9      | 80     | 158     | 189    | 58    | 58    | 196    | 76     | 38     | 2      | 4      | 42      |
| 41 | 33 Blank           | 124  | 13    | 7      | 202    | 816     | 656    | 162   | 162   | 451    | 18     | 4      | 0      | 0      | 162     |
| 42 | 34 Blank           | 93   | 4     | 4      | 202    | 942     | 531    | 129   | 129   | 427    | 24     | 18     | 0      | 0      | 69      |
| 43 | 35 SN Chunk 080911 | 78   | 22    | 116    | 9231   | 2209    | 8528   | 2076  | 2076  | 1238   | 9938   | 6449   | 8820   | 12330  | 18676   |
| 44 | 36 LFB             | 111  | 8155  | 371    | 160773 | 829     | 669    | 160   | 160   | 4014   | 186152 | 121199 | 9      | 2      | 271     |

| B  | A                  | B    | BP    | BQ     | BT     | BW      | BX    | BY   | BZ    | CB     | CD     | CF    | CH    | CJ      | CL      |
|----|--------------------|------|-------|--------|--------|---------|-------|------|-------|--------|--------|-------|-------|---------|---------|
| 1  | RAW DATA           |      |       |        |        |         |       |      |       |        |        |       |       |         |         |
| 2  | ELAN               |      |       |        |        |         |       |      |       |        |        |       |       |         |         |
| 3  |                    |      |       |        |        |         |       |      |       |        |        |       |       |         |         |
| 4  | 0632db             |      |       |        |        |         |       |      |       |        |        |       |       |         |         |
| 5  | code               | 850  | 820   | 850    | 980    | 890     | 890   | 900  | 910   | 930    | 950    | 970   | 990   | 1010    | 1030    |
| 6  | symbol             | BT   | SC    | DB     | SS     | SY      | SY    | 75   | 77    | ND     | NO     | NO    | RU    | RU      | RI      |
| 7  | MASSSES2           | 85   | 82    | 85     | 88     | 89      | 89    | 90   | 91    | 93     | 95     | 97    | 99    | 101     | 103     |
| 8  |                    |      |       |        |        |         |       |      |       |        |        |       |       |         |         |
| 45 | 37 CB              | 178  | 13    | 4      | 87     | 162     | 162   | 187  | 33    | 129    | 111    | 62    | 2     | 2       | 20      |
| 46 | 38 Std 4C          | 4835 | 10626 | 123544 | 151875 | 3922455 | 1340  | 311  | 1694  | 180125 | 116576 | 7     | 7     | 22      | 1136620 |
| 47 | 39 Trace 0.01 ppm  | 1178 | 593   | 12167  | 196    | 262     | 32046 | 7227 | 35136 | 69     | 44     | 17822 | 26048 | 111     |         |
| 48 | 40 CB              | 38   | 7     | 9      | 140    | 16      | 33    | 0    | 31    | 20     | 18     | 0     | 2     | 2       | 11      |
| 49 | 41 SN Chunk 080911 | 69   | 0     | 9      | 220    | 51      | 158   | 29   | 29    | 131    | 80     | 98    | 120   | 191     |         |
| 50 | 42 CB              | 76   | 11    | 9      | 116    | 31      | 4     | 33   | 4     | 24     | 20     | 13    | 0     | 0       | 9       |
| 51 | 43 Std 4C          | 3754 | 9852  | 119346 | 146487 | 3947928 | 1649  | 371  | 1085  | 195299 | 126792 | 22    | 16    | 1255214 |         |

| B  | A                  | CN     | CO     | CP     | CQ     | CR     | CT    | CU    | CX     | CY     | DA    | DB     | DC     | DD     |
|----|--------------------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|--------|--------|--------|
| 1  | RAW DATA           |        |        |        |        |        |       |       |        |        |       |        |        |        |
| 2  | ELAN               |        |        |        |        |        |       |       |        |        |       |        |        |        |
| 3  |                    |        |        |        |        |        |       |       |        |        |       |        |        |        |
| 4  | 0632db             |        |        |        |        |        |       |       |        |        |       |        |        |        |
| 5  | code               | 1050   | 1050   | 1070   | 1060   | 1090   | 1110  | 1110  | 120    | 1050   | 1170  | 1150   | 1150   | 1200   |
| 6  | symbol             | PC     | 9P     | AG     | AG     | AG     | CG    | CG    | CG     | CG     | CG    | CG     | CG     | CG     |
| 7  | MASSSES2           | 105    | 106    | 107    | 108    | 109    | 110   | 111   | 112    | 113    | 114   | 115    | 116    | 117    |
| 8  |                    |        |        |        |        |        |       |       |        |        |       |        |        |        |
| 9  | 1 CB               | 2      | 4      | 49     | 0      | 56     | 0     | 0     | 7      | 76     | 9     | 40     | 20     | 69     |
| 10 | 2 CB               | 0      | 2      | 49     | 0      | 62     | 0     | 0     | 7      | 7      | 4     | 51     | 4      | 118    |
| 11 | 3 Trace 0.1 ppm    | 0      | 333    | 127    | 138    | 318    | 88138 | 88138 | 22137  | 508979 | 24    | 49     | 20     | 71     |
| 12 | 4 Std 4C           | 322990 | 417929 | 736877 | 432419 | 724657 | 88138 | 88138 | 22137  | 539663 | 51141 | 168900 | 100972 | 246099 |
| 13 | 5 Std 5C           | 35667  | 45497  | 79315  | 47577  | 78711  | 9507  | 9507  | 23804  | 577812 | 5242  | 17695  | 10666  | 26405  |
| 14 | 6 Std 6C           | 3565   | 4612   | 8270   | 4766   | 8063   | 1031  | 1031  | 2454   | 555179 | 560   | 1858   | 1178   | 2789   |
| 15 | 7 T169             | 36     | 296    | 28818  | 253    | 27681  | 2974  | 2974  | 7536   | 516063 | 1249  | 4012   | 2109   | 5784   |
| 16 | 8 Nd, I 0.1 ppm    | 7      | 11     | 11     | 2      | 16     | 9     | 9     | 2      | 49     | 4     | 11     | 2      | 4      |
| 17 | 9 Trace 0.01 ppm   | 16     | 20     | 84     | 7      | 96     | 0     | 0     | 7      | 56620  | 24    | 69     | 20     | 87     |
| 18 | 10 CB              | 4      | 0      | 56     | 0      | 60     | 0     | 0     | 4      | 9      | 22    | 56     | 16     | 91     |
| 19 | 11 CB              | 2      | 4      | 80     | 7      | 31     | 4     | 4     | 9      | 4      | 18    | 56     | 29     | 96     |
| 20 | 12 CB              | 7      | 0      | 2      | 0      | 11     | 4     | 4     | 2      | 7      | 4     | 4      | 0      | 9      |
| 21 | 13 CB              | 0      | 4      | 0      | 2      | 7      | 0     | 0     | 9      | 4      | 4     | 0      | 2      | 11     |
| 22 | 14 Blank           | 2      | 2      | 4      | 7      | 4      | 4     | 4     | 0      | 2      | 4     | 7      | 2      | 7      |
| 23 | 15                 | 4      | 0      | 9      | 7      | 7      | 7     | 7     | 2      | 9      | 11    | 18     | 11     | 38     |
| 24 | 16                 | 4      | 4      | 2      | 7      | 9      | 4     | 4     | 0      | 9      | 2     | 24     | 2      | 44     |
| 25 | 17                 | 0      | 2      | 9      | 7      | 4      | 0     | 0     | 2      | 9      | 16    | 31     | 7      | 29     |
| 26 | 18                 | 9      | 2      | 9      | 7      | 13     | 7     | 7     | 2      | 11     | 2     | 13     | 7      | 27     |
| 27 | 19                 | 9      | 0      | 7      | 7      | 7      | 7     | 7     | 4      | 2      | 2     | 27     | 2      | 16     |
| 28 | 20                 | 4      | 4      | 4      | 4      | 11     | 2     | 2     | 2      | 11     | 9     | 24     | 11     | 31     |
| 29 | 21                 | 2      | 0      | 4      | 7      | 4      | 0     | 0     | 9      | 7      | 2     | 7      | 16     | 27     |
| 30 | 22                 | 2      | 0      | 2      | 2      | 2      | 7     | 7     | 0      | 11     | 4     | 11     | 9      | 24     |
| 31 | 23                 | 16     | 182    | 2885   | 138    | 2814   | 1756  | 1756  | 4510   | 7      | 82    | 358    | 116    | 485    |
| 32 | 24 LFB             | 9      | 153    | 3630   | 149    | 3712   | 2160  | 2160  | 5277   | 16     | 113   | 351    | 147    | 482    |
| 33 | 25 Blank           | 4      | 0      | 0      | 2      | 0      | 2     | 2     | 4      | 9      | 2     | 18     | 4      | 11     |
| 34 | 26 Trace 0.1 ppm   | 11     | 360    | 111    | 138    | 407    | 7     | 7     | 0      | 509487 | 22    | 36     | 7      | 73     |
| 35 | 27 Nd, I 0.1 ppm   | 7      | 4      | 9      | 0      | 11     | 2     | 2     | 2      | 111    | 2     | 11     | 9      | 4      |
| 36 | 28 Std 4C          | 311628 | 396561 | 696907 | 413538 | 690525 | 84646 | 84646 | 215288 | 506633 | 48970 | 161259 | 96278  | 234382 |
| 37 | 29 Blank           | 38     | 38     | 60     | 29     | 62     | 11    | 11    | 29     | 40     | 2     | 31     | 9      | 22     |
| 38 | 30 CB              | 33     | 42     | 73     | 33     | 69     | 24    | 24    | 51     | 544798 | 49    | 127    | 67     | 240    |
| 39 | 31 CB              | 31     | 27     | 100    | 31     | 73     | 20    | 20    | 76     | 541227 | 49    | 156    | 42     | 187    |
| 40 | 32 CB              | 18     | 11     | 69     | 31     | 58     | 44    | 44    | 93     | 545944 | 49    | 98     | 44     | 198    |
| 41 | 33 Blank           | 4      | 4      | 4      | 2      | 9      | 0     | 0     | 7      | 575278 | 7     | 18     | 16     | 38     |
| 42 | 34 Blank           | 4      | 2      | 4      | 2      | 7      | 0     | 0     | 4      | 573468 | 4     | 18     | 11     | 47     |
| 43 | 35 SN Chunk 080911 | 6349   | 7888   | 158    | 8250   | 156    | 80    | 80    | 333    | 536043 | 2003  | 6438   | 2487   | 9385   |
| 44 | 36 LFB             | 18     | 6424   | 709866 | 5122   | 701465 | 79573 | 79573 | 197353 | 540796 | 38    | 127    | 60     | 207    |

| B  | A                  | B      | CN     | CO     | CP     | CQ    | CR     | CT    | CU    | CX     | CY     | DA    | DB     | DC     | DD     |
|----|--------------------|--------|--------|--------|--------|-------|--------|-------|-------|--------|--------|-------|--------|--------|--------|
| 1  | RAW DATA           |        |        |        |        |       |        |       |       |        |        |       |        |        |        |
| 2  | ELAN               |        |        |        |        |       |        |       |       |        |        |       |        |        |        |
| 3  |                    |        |        |        |        |       |        |       |       |        |        |       |        |        |        |
| 4  | 0632db             |        |        |        |        |       |        |       |       |        |        |       |        |        |        |
| 5  | code               |        |        |        |        |       |        |       |       |        |        |       |        |        |        |
| 6  | symbol             |        |        |        |        |       |        |       |       |        |        |       |        |        |        |
| 7  | MASSSES2           |        |        |        |        |       |        |       |       |        |        |       |        |        |        |
| 8  |                    |        |        |        |        |       |        |       |       |        |        |       |        |        |        |
| 45 | 37 CB              | 20     | 22     | 209    | 205    | 31    | 205    | 31    | 31    | 147    | 539296 | 42    | 87     | 20     | 142    |
| 46 | 38 Std 4C          | 314753 | 404173 | 713262 | 704497 | 86433 | 704497 | 86433 | 86433 | 221056 | 523917 | 50311 | 165637 | 97661  | 242607 |
| 47 | 39 Trace 0.01 ppm  | 42     | 67     | 127    | 147    | 9     | 147    | 9     | 9     | 9      | 52396  | 20    | 71     | 24     | 100    |
| 48 | 40 CB              | 4      | 9      | 9      | 7      | 4     | 7      | 4     | 4     | 11     | 494373 | 4     | 20     | 13     | 27     |
| 49 | 41 SN Chunk 080911 | 80     | 87     | 18     | 24     | 0     | 24     | 0     | 0     | 13     | 498163 | 36    | 67     | 36     | 104    |
| 50 | 42 CB              | 4      | 7      | 9      | 7      | 7     | 7      | 7     | 7     | 4      | 498864 | 2     | 33     | 7      | 13     |
| 51 | 43 Std 4C          | 347910 | 445558 | 794444 | 785743 | 91444 | 785743 | 91444 | 91444 | 233422 | 528280 | 51808 | 170930 | 105714 | 251788 |

| B  | A                  | B      | DE     | DG   | DI    | DK    | DL     | DQ    | DS      | DU    | DV      | DW      | DX      | DY      | DZ     |
|----|--------------------|--------|--------|------|-------|-------|--------|-------|---------|-------|---------|---------|---------|---------|--------|
| 1  | RAW DATA           |        |        |      |       |       |        |       |         |       |         |         |         |         |        |
| 2  | ELAN               |        |        |      |       |       |        |       |         |       |         |         |         |         |        |
| 3  |                    |        |        |      |       |       |        |       |         |       |         |         |         |         |        |
| 4  | 0631db             |        |        |      |       |       |        |       |         |       |         |         |         |         |        |
| 5  | code               |        |        |      |       |       |        |       |         |       |         |         |         |         |        |
| 6  | symbol             |        |        |      |       |       |        |       |         |       |         |         |         |         |        |
| 7  | MASSSES2           |        |        |      |       |       |        |       |         |       |         |         |         |         |        |
| 8  |                    |        |        |      |       |       |        |       |         |       |         |         |         |         |        |
| 9  | 1 CB               | 9      | 11     | 0    | 47    | 13    | 0      | 11    | 171     | 18    | 171     | 698     | 102     | 20      | 13     |
| 10 | 2 CB               | 4      | 7      | 0    | 38    | 2     | 2      | 2     | 160     | 29    | 160     | 427     | 98      | 16      | 22     |
| 11 | 3 Trace 0.1 ppm    | 76     | 62     | 0    | 56    | 7     | 42     | 2     | 36      | 7     | 36      | 169     | 162     | 1462671 | 27     |
| 12 | 4 Std 4C           | 169261 | 136421 | 5124 | 131   | 26775 | 457533 | 45519 | 559543  | 83800 | 559543  | 1201672 | 1540781 | 256     | 202092 |
| 13 | 5 Std 5C           | 17552  | 14334  | 633  | 49    | 2996  | 47833  | 4781  | 58898   | 8631  | 58898   | 126403  | 160540  | 64      | 21463  |
| 14 | 6 Std 6C           | 2047   | 1716   | 58   | 53    | 331   | 4706   | 489   | 6387    | 987   | 6387    | 13226   | 15696   | 11      | 2130   |
| 15 | 7 T169             | 5237   | 4303   | 7    | 505   | 20    | 340    | 19204 | 233577  | 35080 | 233577  | 2716    | 1018    | 184     | 125    |
| 16 | 8 Nd, I 0.1 ppm    | 4      | 0      | 4    | 71589 | 18    | 7      | 16    | 84      | 18    | 84      | 180     | 16      | 38      | -49528 |
| 17 | 9 Trace 0.01 ppm   | 56     | 67     | 4    | 3407  | 11    | 13     | 9     | 191     | 33    | 191     | 425     | 127     | 156651  | -32    |
| 18 | 10 CB              | 13     | 16     | 0    | 1071  | 9     | 2      | 18    | 242     | 29    | 242     | 380     | 102     | 60      | 24     |
| 19 | 11 CB              | 24     | 9      | 2    | 516   | 16    | 4      | 22    | 251     | 31    | 251     | 469     | 153     | 22      | 13     |
| 20 | 12 CB              | 4      | 2      | 2    | 376   | 4     | 4      | 11    | 58      | 7     | 58      | 1358    | 4       | 4       | -11    |
| 21 | 13 CB              | 2      | 7      | 0    | 340   | 4     | 0      | 4     | 62      | 4     | 62      | 1322    | 7       | 4       | -1     |
| 22 | 14 Blank           | 11     | 4      | 2    | 231   | 11    | 0      | 11    | 64      | 7     | 64      | 1494    | 7       | 7       | -1     |
| 23 | 15                 | 4      | 2      | 2    | 236   | 13    | 2      | 111   | 5193243 | 231   | 5193243 | <###>   | 88715   | 2209    | 241    |
| 24 | 16                 | 4      | 4      | 0    | 200   | 16    | 0      | 144   | 5040042 | 327   | 5040042 | <###>   | 86041   | 707     | 349    |
| 25 | 17                 | 20     | 16     | 4    | 164   | 7     | 0      | 98    | 4999209 | 207   | 4999209 | <###>   | 84406   | 2154    | 370    |
| 26 | 18                 | 4      | 4      | 0    | 158   | 11    | 0      | 162   | 4923608 | 298   | 4923608 | <###>   | 83398   | 573     | 238    |
| 27 | 19                 | 7      | 7      | 0    | 147   | 27    | 2      | 111   | 4796635 | 162   | 4796635 | <###>   | 80837   | 765     | 448    |
| 28 | 20                 | 9      | 4      | 2    | 160   | 9     | 0      | 93    | 4931479 | 196   | 4931479 | <###>   | 86305   | 1167    | 682    |
| 29 | 21                 | 18     | 4      | 0    | 149   | 9     | 2      | 78    | 4747134 | 129   | 4747134 | <###>   | 80984   | 1013    | 736    |
| 30 | 22                 | 11     | 9      | 2    | 131   | 4     | 0      | 89    | 4854193 | 133   | 4854193 | <###>   | 82309   | 1067    | 827    |
| 31 | 23                 | 1947   | 1585   | 53   | 127   | 222   | 29     | 1127  | 4820905 | 2087  | 4820905 | <###>   | 625910  | 71088   | 71710  |
| 32 | 24 LFB             | 2020   | 1698   | 49   | 124   | 244   | 0      | 1069  | 18635   | 2020  | 18635   | 4087380 | 584683  | 73980   | 75735  |
| 33 | 25 Blank           | 4      | 4      | 0    | 136   | 18    | 4      | 2     | 405     | 7     | 405     | 398398  | 205     | 16      | 16     |
| 34 | 26 Trace 0.1 ppm   | 89     | 47     | 4    | 160   | 11    | 42     | 0     | 62      | 4     | 62      | 48424   | 147     | 1449096 | 60     |
| 35 | 27 Nd, I 0.1 ppm   | 2      | 2      | 0    | 62211 | 11    | 4      | 7     | 69      | 9     | 69      | 16608   | 13      | 316     | -40957 |
| 36 | 28 Std 4C          | 161825 | 132094 | 4906 | 3123  | 24922 | 426111 | 42307 | 531767  | 78932 | 531767  | 1188372 | 1464742 | 149     | 191611 |
| 37 | 29 Blank           | 20     | 22     | 4    | 927   | 13    | 51     | 24    | 116     | 9     | 116     | 49816   | 133     | 7       | 6      |
| 38 | 30 CB              | 133    | 162    | 9    | 636   | 29    | 20     | 36    | 284     | 58    | 284     | 10282   | 196     | 11      | 14     |
| 39 | 31 CB              | 196    | 122    | 4    | 525   | 18    | 11     | 22    | 298     | 58    | 298     | 11656   | 173     | 13      | 26     |
| 40 | 32 CB              | 178    | 122    | 0    | 387   | 22    | 7      | 31    | 280     | 42    | 280     | 8651    | 176     | 2       | 44     |
| 41 | 33 Blank           | 53     | 16     | 2    | 309   | 9     | 16     | 31    | 364     | 62    | 364     | 5644    | 273     | 22      | 28     |
| 42 | 34 Blank           | 51     | 27     | 9    | 271   | 7     | 4      | 33    | 393     | 67    | 393     | 4428    | 258     | 20      | 21     |
| 43 | 35 SN Chunk 080911 | 533    | 453    | 9    | 566   | 18    | 53     | 24557 | 303406  | 45488 | 303406  | 9506    | 7554    | 951     | 908    |
| 44 | 36 LFB             | 149838 | 121109 | 0    | 316   | 27    | 67     | 45450 | 555282  | 83301 | 555282  | 4908    | 398     | 29      | 52     |

| B  | A                  | B      | DE     | DG   | DI  | DK    | DL     | DQ    | DS     | DU    | DV      | DW      | DX     | DY     | DZ |
|----|--------------------|--------|--------|------|-----|-------|--------|-------|--------|-------|---------|---------|--------|--------|----|
| 1  | RAW DATA           |        |        |      |     |       |        |       |        |       |         |         |        |        |    |
| 2  | ELAN               |        |        |      |     |       |        |       |        |       |         |         |        |        |    |
| 3  |                    |        |        |      |     |       |        |       |        |       |         |         |        |        |    |
| 4  | 0632db             |        |        |      |     |       |        |       |        |       |         |         |        |        |    |
| 5  | code               |        |        |      |     |       |        |       |        |       |         |         |        |        |    |
| 6  | symbol             |        |        |      |     |       |        |       |        |       |         |         |        |        |    |
| 7  | MASSSES2           |        |        |      |     |       |        |       |        |       |         |         |        |        |    |
| 8  |                    |        |        |      |     |       |        |       |        |       |         |         |        |        |    |
| 45 | 37 CB              | 213    | 191    | 0    | 262 | 9     | 13     | 22    | 384    | 60    | 5922    | 176     | 7      | 33     |    |
| 46 | 38 Std 4C          | 169595 | 136568 | 4835 | 300 | 26443 | 448223 | 45041 | 556200 | 83108 | 1195445 | 1497342 | 100    | 198064 |    |
| 47 | 39 Trace 0.01 ppm  | 67     | 36     | 2    | 182 | 18    | 42     | 18    | 198    | 33    | 2092    | 169     | 146724 | 14     |    |
| 48 | 40 CB              | 31     | 18     | 2    | 64  | 11    | 2      | 18    | 233    | 29    | 1125    | 144     | 11     | 11     |    |
| 49 | 41 SN Chunk 080911 | 40     | 27     | 2    | 89  | 18    | 7      | 266   | 3330   | 489   | 2846    | 240     | 27     | 4      |    |
| 50 | 42 CB              | 24     | 24     | 2    | 58  | 11    | 4      | 27    | 351    | 58    | 1302    | 200     | 9      | 37     |    |
| 51 | 43 Std 4C          | 168354 | 135707 | 4948 | 164 | 25211 | 448933 | 45688 | 568738 | 85095 | 1260386 | 1627472 | 133    | 214144 |    |



| B  | A                  | B      | EA     | ED     | EE     | EG     | EK       | EM     | EO     | EP     | EQ      | ER     | ES     | EU     | EW      |
|----|--------------------|--------|--------|--------|--------|--------|----------|--------|--------|--------|---------|--------|--------|--------|---------|
| 1  | RAW DATA           |        |        |        |        |        |          |        |        |        |         |        |        |        |         |
| 2  | ELAN               |        |        |        |        |        |          |        |        |        |         |        |        |        |         |
| 3  |                    |        |        |        |        |        |          |        |        |        |         |        |        |        |         |
| 4  | 0633db             |        |        |        |        |        |          |        |        |        |         |        |        |        |         |
| 5  | code               |        |        |        |        |        |          |        |        |        |         |        |        |        |         |
| 6  | symbol             |        |        |        |        |        |          |        |        |        |         |        |        |        |         |
| 7  | MASSSES2           |        |        |        |        |        |          |        |        |        |         |        |        |        |         |
| 8  |                    |        |        |        |        |        |          |        |        |        |         |        |        |        |         |
| 9  | 1 CB               | 0      | 4      | 0      | 0      | 0      | 7        | 13     | 0      | 4      | 242     | 0      | 0      | 0      | 4       |
| 10 | 2 CB               | 2      | 0      | 2      | 2      | 0      | 0        | 9      | 2      | 0      | 18      | 0      | 4      | 0      | 0       |
| 11 | 3 Trace 0.1 ppm    | 36     | 228466 | 221636 | 902600 | 349623 | 390898   | 626500 | 617987 | 394057 | 2224547 | 617987 | 394057 | 538986 | 2215470 |
| 12 | 4 Std 4C           | 13     | 33     | 42     | 56     | 273    | 4624     | 487    | 891    | 165    | 2368443 | 165    | 84     | 87     | 349     |
| 13 | 5 Std 5C           | 4      | 13     | 11     | 9      | 40     | 471      | 71     | 116    | 49     | 2477552 | 49     | 24     | 40     | 107     |
| 14 | 6 Std 6C           | 2      | 2      | 7      | 7      | 13     | 76       | 11     | 22     | 40     | 2377965 | 40     | 13     | 16     | 22      |
| 15 | 7 T169             | 124    | 202    | 27     | 36     | 62     | 131      | 73     | 104    | 107    | 2275872 | 107    | 62     | 71     | 64      |
| 16 | 8 Nd, I 0.1 ppm    | 202320 | 309187 | 9      | 7      | 4      | 18       | 2      | 1629   | 1660   | 934     | 1660   | 622    | 67     | 29      |
| 17 | 9 Trace 0.01 ppm   | 100    | 156    | 25065  | 24089  | 98073  | 37620    | 42823  | 67613  | 67276  | 245571  | 67276  | 42803  | 58334  | 242562  |
| 18 | 10 CB              | 0      | 4      | 4      | 2      | 24     | 24       | 7      | 24     | 16     | 73      | 16     | 11     | 11     | 40      |
| 19 | 11 CB              | 2      | 4      | 2      | 4      | 0      | 0        | 9      | 0      | 2      | 24      | 2      | 2      | 4      | 11      |
| 20 | 12 CB              | 4      | 7      | 0      | 2      | 7      | 18       | 7      | 7      | 4      | 4       | 4      | 0      | 0      | 2       |
| 21 | 13 CB              | 4      | 2      | 2      | 2      | 2      | 4        | 4      | 4      | 4      | 2       | 4      | 2      | 2      | 0       |
| 22 | 14 Blank           | 0      | 2      | 2      | 2      | 2      | 18       | 0      | 0      | 0      | 2       | 0      | 11     | 0      | 0       |
| 23 | 15                 | 873    | 1487   | 31     | 31     | 1302   | 23324520 | 52813  | 4246   | 182    | 124     | 182    | 47     | 93     | 22      |
| 24 | 16                 | 291    | 384    | 24     | 27     | 1296   | 22580070 | 48737  | 4054   | 82     | 27      | 82     | 31     | 51     | 20      |
| 25 | 17                 | 969    | 1302   | 29     | 24     | 1131   | 21849350 | 49980  | 4012   | 207    | 169     | 207    | 71     | 102    | 16      |
| 26 | 18                 | 258    | 411    | 29     | 22     | 1098   | 22163440 | 47662  | 3801   | 113    | 38      | 113    | 47     | 71     | 24      |
| 27 | 19                 | 293    | 467    | 53     | 29     | 1045   | 21695610 | 45227  | 3932   | 133    | 67      | 133    | 51     | 82     | 27      |
| 28 | 20                 | 416    | 658    | 42     | 42     | 1318   | 21579810 | 47852  | 4014   | 162    | 122     | 162    | 69     | 96     | 18      |
| 29 | 21                 | 400    | 560    | 51     | 53     | 1187   | 20801260 | 50345  | 3739   | 147    | 93      | 147    | 69     | 58     | 29      |
| 30 | 22                 | 384    | 542    | 60     | 56     | 1109   | 20571200 | 46321  | 3881   | 136    | 111     | 136    | 69     | 60     | 29      |
| 31 | 23                 | 9380   | 14134  | 4461   | 4277   | 46028  | 20468690 | 53762  | 15992  | 11856  | 10955   | 11856  | 4768   | 6998   | 4317    |
| 32 | 24 LFB             | 9407   | 13921  | 4632   | 4535   | 47097  | 28727    | 8348   | 13571  | 12405  | 11371   | 12405  | 5019   | 6972   | 4786    |
| 33 | 25 Blank           | 2      | 11     | 2      | 9      | 29     | 4098     | 13     | 4      | 2      | 9       | 2      | 2      | 0      | 2       |
| 34 | 26 Trace 0.1 ppm   | 27     | 38     | 227726 | 221176 | 892467 | 353545   | 396993 | 636417 | 626755 | 2271353 | 626755 | 395401 | 543122 | 2239575 |
| 35 | 27 Nd, I 0.1 ppm   | 179023 | 270213 | 42     | 62     | 191    | 151      | 80     | 1678   | 1609   | 1311    | 1609   | 718    | 144    | 418     |
| 36 | 28 Std 4C          | 93     | 151    | 33     | 24     | 176    | 4636     | 462    | 722    | 113    | 2252722 | 113    | 73     | 73     | 269     |
| 37 | 29 Blank           | 2      | 4      | 0      | 4      | 4      | 198      | 4      | 9      | 0      | 167     | 0      | 0      | 4      | 16      |
| 38 | 30 CB              | 7      | 11     | 4      | 4      | 4      | 47       | 9      | 7      | 20     | 2309696 | 20     | 7      | 7      | 9       |
| 39 | 31 CB              | 13     | 4      | 4      | 11     | 7      | 36       | 4      | 4      | 22     | 2308473 | 22     | 13     | 7      | 7       |
| 40 | 32 CB              | 4      | 4      | 2      | 0      | 4      | 56       | 7      | 7      | 33     | 2333068 | 33     | 7      | 2      | 4       |
| 41 | 33 Blank           | 13     | 20     | 0      | 4      | 4      | 56       | 2      | 20     | 31     | 2417712 | 31     | 11     | 11     | 7       |
| 42 | 34 Blank           | 7      | 24     | 16     | 4      | 11     | 33       | 4      | 9      | 31     | 2417701 | 31     | 11     | 11     | 13      |
| 43 | 35 SN Chunk 080911 | 473    | 729    | 182    | 164    | 160    | 411      | 311    | 404    | 498    | 2294312 | 498    | 276    | 347    | 313     |
| 44 | 36 LFB             | 9      | 18     | 4      | 11     | 44     | 189      | 9      | 16     | 29     | 2428152 | 29     | 7      | 18     | 16      |

| B  | A                  | B  | EA | ED    | EE    | EG    | EK    | EM    | EO      | EP      | EQ      | ER    | ES     | EU  | EW  |
|----|--------------------|----|----|-------|-------|-------|-------|-------|---------|---------|---------|-------|--------|-----|-----|
| 1  | RAW DATA           |    |    |       |       |       |       |       |         |         |         |       |        |     |     |
| 2  | ELAN               |    |    |       |       |       |       |       |         |         |         |       |        |     |     |
| 3  |                    |    |    |       |       |       |       |       |         |         |         |       |        |     |     |
| 4  | 0637db             |    |    |       |       |       |       |       |         |         |         |       |        |     |     |
| 5  | code               |    |    |       |       |       |       |       |         |         |         |       |        |     |     |
| 6  | symbol             |    |    |       |       |       |       |       |         |         |         |       |        |     |     |
| 7  | MASSSES2           |    |    |       |       |       |       |       |         |         |         |       |        |     |     |
| 8  |                    |    |    |       |       |       |       |       |         |         |         |       |        |     |     |
| 45 | 37 CB              | 4  | 4  | 2     | 2     | 2     | 4     | 31    | 2       | 7       | 2313606 | 22    | 7      | 11  | 9   |
| 46 | 38 Std 4C          | 22 | 31 | 13    | 20    | 144   | 144   | 4264  | 407     | 776     | 2315816 | 53    | 29     | 51  | 118 |
| 47 | 39 Trace 0.01 ppm  | 2  | 11 | 23172 | 23134 | 92193 | 35689 | 40392 | 64554   | 63741   | 40274   | 54677 | 229145 |     |     |
| 48 | 40 CB              | 2  | 16 | 0     | 0     | 4     | 11    | 4     | 4       | 2235639 | 60      | 7     | 11     | 9   |     |
| 49 | 41 SN Chunk 080911 | 11 | 20 | 7     | 4     | 4     | 27    | 16    | 2284984 | 62      | 11      | 18    | 16     |     |     |
| 50 | 42 CB              | 4  | 2  | 2     | 0     | 2     | 11    | 4     | 7       | 2269239 | 51      | 4     | 7      | 11  |     |
| 51 | 43 Std 4C          | 11 | 9  | 24    | 9     | 167   | 4936  | 580   | 978     | 2541393 | 91      | 33    | 53     | 169 |     |

| B  | A                   | RAW DATA | EX     | EY      | FA     | FD     | FE      | FG     | FI     | FJ      | FM     | FN     | FO      | FQ      | FS |
|----|---------------------|----------|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|---------|----|
| 1  | ELAN                |          |        |         |        |        |         |        |        |         |        |        |         |         |    |
| 2  |                     |          |        |         |        |        |         |        |        |         |        |        |         |         |    |
| 3  |                     |          |        |         |        |        |         |        |        |         |        |        |         |         |    |
| 4  | 0632db              |          |        |         |        |        |         |        |        |         |        |        |         |         |    |
| 5  | code                |          |        |         |        |        |         |        |        |         |        |        |         |         |    |
| 6  | symbol              |          |        |         |        |        |         |        |        |         |        |        |         |         |    |
| 7  | MASSSES2            |          |        |         |        |        |         |        |        |         |        |        |         |         |    |
| 8  |                     |          |        |         |        |        |         |        |        |         |        |        |         |         |    |
| 9  | 1 CB                | 0        | 0      | 0       | 0      | 9      | 2       | 7      | 7      | 11      | 409    | 11     | 16      | 2       | 4  |
| 10 | 2 CB                | 4        | 2      | 2       | 2      | 0      | 0       | 2      | 2      | 9       | 2      | 16     | 7       | 2       | 0  |
| 11 | 3 Trace 0.1 ppm     | 769432   | 539924 | 2509133 | 590021 | 446587 | 1642958 | 451179 | 680529 | 2431933 | 620796 | 341821 | 1471    | 33987   |    |
| 12 | 4 Std 4C            | 113      | 100    | 407     | 124    | 122    | 5475    | 440    | 633    | 137321  | 6000   | 3323   | 1066125 | 1814440 |    |
| 13 | 5 Std 5C            | 42       | 20     | 113     | 40     | 42     | 5491    | 129    | 204    | 5057    | 847    | 422    | 109502  | 187690  |    |
| 14 | 6 Std 6C            | 11       | 11     | 20      | 13     | 13     | 5019    | 80     | 116    | 1187    | 522    | 263    | 11071   | 18673   |    |
| 15 | 7 T169              | 51       | 58     | 40      | 44     | 42     | 4899    | 38     | 31     | 1442    | 642    | 333    | 220     | 351     |    |
| 16 | 8 Nd, I 0.1 ppm     | 433      | 40     | 11      | 7      | 2      | 7       | 56     | 82     | 200     | 240    | 127    | 4       | 31      |    |
| 17 | 9 Trace 0.01 ppm    | 83756    | 58268  | 276850  | 64254  | 48221  | 178132  | 48557  | 72981  | 175330  | 61004  | 33771  | 129     | 3239    |    |
| 18 | 10 CB               | 27       | 11     | 53      | 11     | 18     | 53      | 20     | 27     | 182     | 342    | 209    | 2       | 27      |    |
| 19 | 11 CB               | 0        | 2      | 7       | 2      | 7      | 13      | 22     | 18     | 171     | 198    | 129    | 2       | 22      |    |
| 20 | 12 CB               | 4        | 4      | 0       | 2      | 4      | 0       | 13     | 16     | 164     | 176    | 109    | 2       | 24      |    |
| 21 | 13 CB               | 0        | 4      | 9       | 4      | 0      | 7       | 16     | 11     | 202     | 173    | 80     | 7       | 18      |    |
| 22 | 14 Blank            | 0        | 4      | 4       | 4      | 4      | 7       | 9      | 20     | 184     | 109    | 58     | 2       | 7       |    |
| 23 | 15                  | 13       | 2      | 18      | 38     | 73     | 9       | 16     | 22     | 189     | 587    | 347    | 4       | 13      |    |
| 24 | 16                  | 13       | 0      | 18      | 18     | 89     | 9       | 40     | 9      | 164     | 462    | 251    | 7       | 7       |    |
| 25 | 17                  | 11       | 9      | 13      | 16     | 102    | 7       | 29     | 22     | 131     | 509    | 302    | 7       | 9       |    |
| 26 | 18                  | 7        | 9      | 18      | 24     | 51     | 4       | 16     | 9      | 187     | 398    | 198    | 2       | 9       |    |
| 27 | 19                  | 13       | 7      | 11      | 22     | 93     | 13      | 20     | 11     | 167     | 471    | 249    | 4       | 4       |    |
| 28 | 20                  | 13       | 16     | 11      | 22     | 76     | 7       | 9      | 9      | 107     | 651    | 293    | 0       | 11      |    |
| 29 | 21                  | 9        | 11     | 29      | 31     | 71     | 4       | 29     | 11     | 136     | 565    | 300    | 2       | 9       |    |
| 30 | 22                  | 11       | 2      | 22      | 24     | 73     | 13      | 16     | 9      | 144     | 585    | 276    | 2       | 9       |    |
| 31 | 23                  | 15220    | 10492  | 30764   | 28934  | 21602  | 158434  | 36     | 13     | 144     | 505    | 278    | 13      | 13      |    |
| 32 | 24 LFB              | 16195    | 11380  | 32859   | 30884  | 23023  | 167580  | 11     | 24     | 131     | 89     | 51     | 20      | 13      |    |
| 33 | 25 Blank            | 4        | 7      | 13      | 18     | 13     | 64      | 0      | 4      | 98      | 71     | 56     | 0       | 9       |    |
| 34 | 26 Trace 0.1 ppm    | 778631   | 547827 | 2532185 | 600032 | 453601 | 1639320 | 460186 | 689356 | 2650461 | 650192 | 358748 | 1600    | 34640   |    |
| 35 | 27 Nd, I 0.1 ppm    | 560      | 124    | 485     | 116    | 89     | 284     | 173    | 218    | 511     | 1551   | 849    | 7       | 362     |    |
| 36 | 28 Std 4C           | 71       | 91     | 285     | 82     | 62     | 5051    | 542    | 833    | 77136   | 3270   | 1874   | 1016896 | 1740328 |    |
| 37 | 29 Blank            | 4        | 4      | 0       | 2      | 7      | 7       | 9      | 4      | 262     | 391    | 242    | 38      | 136     |    |
| 38 | 30 CB               | 4        | 9      | 4       | 13     | 13     | 5064    | 20     | 18     | 1033    | 453    | 173    | 29      | 82      |    |
| 39 | 31 CB               | 11       | 4      | 13      | 7      | 0      | 5157    | 22     | 13     | 738     | 373    | 171    | 18      | 53      |    |
| 40 | 32 CB               | 2        | 2      | 7       | 11     | 9      | 4926    | 27     | 16     | 727     | 271    | 153    | 24      | 49      |    |
| 41 | 33 Blank            | 11       | 4      | 7       | 27     | 9      | 5840    | 38     | 51     | 1216    | 276    | 173    | 7       | 24      |    |
| 42 | 34 Blank            | 11       | 18     | 2       | 11     | 4      | 5831    | 49     | 56     | 1016    | 216    | 129    | 4       | 16      |    |
| 43 | 35 SW Chunk 0.80911 | 336      | 216    | 122     | 204    | 142    | 5644    | 333    | 411    | 985     | 7332   | 4132   | 3603    | 6803    |    |
| 44 | 36 LFB              | 22       | 11     | 13      | 20     | 22     | 5647    | 87     | 107    | 26084   | 1016   | 513    | 18      | 22      |    |

| B  | A                  | RAW DATA | EX    | EY     | FA    | FD    | FE     | FG    | FI    | FJ     | FM    | FN    | FO      | FQ      | FS |
|----|--------------------|----------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|---------|---------|----|
| 1  | ELAN               |          |       |        |       |       |        |       |       |        |       |       |         |         |    |
| 2  |                    |          |       |        |       |       |        |       |       |        |       |       |         |         |    |
| 3  | 0637db             |          |       |        |       |       |        |       |       |        |       |       |         |         |    |
| 4  | code               |          |       |        |       |       |        |       |       |        |       |       |         |         |    |
| 5  | symbol             |          |       |        |       |       |        |       |       |        |       |       |         |         |    |
| 6  | MASSSES2           |          |       |        |       |       |        |       |       |        |       |       |         |         |    |
| 7  |                    |          |       |        |       |       |        |       |       |        |       |       |         |         |    |
| 8  |                    |          |       |        |       |       |        |       |       |        |       |       |         |         |    |
| 45 | 37 CB              | 20       | 2     | 11     | 13    | 7     | 4950   | 40    | 11    | 387    | 229   | 113   | 13      | 20      |    |
| 46 | 38 Std 4C          | 62       | 53    | 151    | 53    | 60    | 5186   | 136   | 211   | 8084   | 516   | 311   | 1026731 | 1755294 |    |
| 47 | 39 Trace 0.01 ppm  | 79250    | 55302 | 261929 | 60594 | 46415 | 165920 | 45115 | 68652 | 167868 | 57717 | 31170 | 160     | 3172    |    |
| 48 | 40 CB              | 4        | 4     | 2      | 4     | 16    | 5960   | 11    | 9     | 47     | 62    | 27    | 2       | 4       |    |
| 49 | 41 SN Chunk 080911 | 4        | 7     | 4      | 18    | 7     | 5858   | 38    | 16    | 31     | 151   | 76    | 38      | 96      |    |
| 50 | 42 CB              | 7        | 11    | 0      | 13    | 9     | 5727   | 22    | 13    | 31     | 53    | 44    | 2       | 11      |    |
| 51 | 43 Std. 4C         | 82       | 44    | 131    | 67    | 33    | 6169   | 256   | 320   | 4799   | 293   | 187   | 1167726 | 2003413 |    |

| B  | A                  | B      | FT     | FU      | FW      | FY     | FZ     | GA      | GB    | GC    | GF    | GG     | GH     | GI | GJ |
|----|--------------------|--------|--------|---------|---------|--------|--------|---------|-------|-------|-------|--------|--------|----|----|
| 1  | RAW DATA           |        |        |         |         |        |        |         |       |       |       |        |        |    |    |
| 2  | ELAN               |        |        |         |         |        |        |         |       |       |       |        |        |    |    |
| 3  |                    |        |        |         |         |        |        |         |       |       |       |        |        |    |    |
| 4  | 0632db             |        |        |         |         |        |        |         |       |       |       |        |        |    |    |
| 5  | code               |        |        |         |         |        |        |         |       |       |       |        |        |    |    |
| 6  | symbol             |        |        |         |         |        |        |         |       |       |       |        |        |    |    |
| 7  | MASSSES2           |        |        |         |         |        |        |         |       |       |       |        |        |    |    |
| 8  |                    |        |        |         |         |        |        |         |       |       |       |        |        |    |    |
| 9  | 1 CB               | 9      | 9      | 29      | 33      | 27     | 33     | 113     | 140   | 69    | 147   | 551    | 236634 |    |    |
| 10 | 2 CB               | 7      | 7      | 18      | 40      | 36     | 33     | 80      | 113   | 44    | 138   | 496    | 239299 |    |    |
| 11 | 3 Trace 0.1 ppm    | 318638 | 391431 | 1196988 | 2034901 | 1769   | 3383   | 5851    | 1176  | 91    | 1247  | 336    | 252895 |    |    |
| 12 | 4 Std 4C           | 3632   | 4693   | 1242616 | 2121233 | 755726 | 788904 | 1095884 | 19441 | 11427 | 25252 | 802523 | 295007 |    |    |
| 13 | 5 Std 5C           | 849    | 1136   | 131523  | 223723  | 80985  | 83794  | 116132  | 1798  | 965   | 2276  | 82980  | 275952 |    |    |
| 14 | 6 Std 6C           | 422    | 496    | 13215   | 22547   | 8055   | 8266   | 12103   | 329   | 158   | 449   | 9047   | 272367 |    |    |
| 15 | 7 Td6              | 256    | 318    | 133     | 213     | 38     | 29     | 989     | 89    | 56    | 102   | 34480  | 250953 |    |    |
| 16 | 8 Nd, I 0.1 ppm    | 207    | 231    | 11      | 44      | 22     | 7      | 565     | 204   | 120   | 256   | 1462   | 278773 |    |    |
| 17 | 9 Trace 0.01 ppm   | 31707  | 39091  | 129345  | 222187  | 204    | 456    | 805     | 200   | 53    | 204   | 567    | 277157 |    |    |
| 18 | 10 CB              | 373    | 496    | 42      | 67      | 44     | 18     | 262     | 118   | 82    | 209   | 776    | 274485 |    |    |
| 19 | 11 CB              | 131    | 224    | 24      | 47      | 36     | 27     | 244     | 102   | 60    | 156   | 687    | 273163 |    |    |
| 20 | 12 CB              | 131    | 142    | 27      | 56      | 4      | 16     | 222     | 127   | 58    | 151   | 858    | 268890 |    |    |
| 21 | 13 CB              | 84     | 93     | 31      | 36      | 9      | 9      | 209     | 102   | 91    | 167   | 891    | 263943 |    |    |
| 22 | 14 Blank           | 58     | 104    | 18      | 47      | 7      | 18     | 158     | 129   | 58    | 118   | 882    | 260747 |    |    |
| 23 | 15                 | 60     | 53     | 31      | 33      | 22     | 16     | 216     | 84    | 53    | 133   | 805    | 235345 |    |    |
| 24 | 16                 | 53     | 87     | 18      | 40      | 16     | 36     | 133     | 89    | 51    | 127   | 778    | 231813 |    |    |
| 25 | 17                 | 47     | 67     | 13      | 49      | 20     | 16     | 207     | 109   | 42    | 109   | 813    | 230987 |    |    |
| 26 | 18                 | 56     | 76     | 20      | 31      | 16     | 18     | 173     | 96    | 62    | 109   | 791    | 231088 |    |    |
| 27 | 19                 | 49     | 96     | 7       | 16      | 13     | 7      | 153     | 98    | 67    | 118   | 725    | 227373 |    |    |
| 28 | 20                 | 73     | 73     | 13      | 20      | 20     | 40     | 196     | 96    | 58    | 118   | 707    | 233084 |    |    |
| 29 | 21                 | 78     | 64     | 20      | 29      | 16     | 2      | 158     | 76    | 53    | 116   | 758    | 231184 |    |    |
| 30 | 22                 | 67     | 53     | 16      | 16      | 20     | 9      | 147     | 87    | 56    | 124   | 782    | 230845 |    |    |
| 31 | 23                 | 49     | 58     | 369     | 42      | 22     | 16     | 129     | 3665  | 2027  | 4677  | 753    | 228892 |    |    |
| 32 | 24 LFB             | 82     | 67     | 356     | 29      | 18     | 11     | 153     | 4034  | 2369  | 5368  | 782    | 256624 |    |    |
| 33 | 25 Blank           | 56     | 73     | 22      | 29      | 11     | 20     | 164     | 167   | 82    | 184   | 798    | 249402 |    |    |
| 34 | 26 Trace 0.1 ppm   | 331160 | 411081 | 1223401 | 2080374 | 1780   | 3741   | 6898    | 1318  | 100   | 1338  | 256    | 256735 |    |    |
| 35 | 27 Nd, I 0.1 ppm   | 3430   | 4134   | 300     | 420     | 9      | 9      | 138     | 96    | 42    | 147   | 458    | 250373 |    |    |
| 36 | 28 Std 4C          | 740    | 820    | 1189179 | 2034130 | 727400 | 756163 | 1044068 | 18668 | 11127 | 24769 | 763747 | 282066 |    |    |
| 37 | 29 Blank           | 411    | 471    | 200     | 265     | 51     | 73     | 4088    | 238   | 113   | 287   | 4521   | 249052 |    |    |
| 38 | 30 CB              | 242    | 296    | 151     | 258     | 109    | 73     | 1367    | 51    | 29    | 69    | 1256   | 265577 |    |    |
| 39 | 31 CB              | 180    | 167    | 100     | 171     | 73     | 67     | 727     | 49    | 38    | 93    | 936    | 264451 |    |    |
| 40 | 32 CB              | 142    | 142    | 71      | 151     | 73     | 76     | 591     | 44    | 24    | 78    | 776    | 267045 |    |    |
| 41 | 33 Blank           | 227    | 231    | 720     | 1347    | 64     | 91     | 567     | 120   | 71    | 162   | 680    | 198    |    |    |
| 42 | 34 Blank           | 182    | 213    | 400     | 705     | 47     | 51     | 444     | 142   | 67    | 187   | 569    | 73     |    |    |
| 43 | 35 SN Chunk 080911 | 4319   | 5315   | 25012   | 44005   | 42673  | 44549  | 6113    | 142   | 58    | 153   | 571    | 358    |    |    |
| 44 | 36 LFB             | 111    | 131    | 780     | 1369    | 98     | 71     | 767     | 18466 | 10797 | 23925 | 785204 | 37769  |    |    |

| B  | A                  | RAW DATA | FT    | FU      | FW      | FY     | FZ     | GA     | GB      | GC    | GF    | GG    | GH     | GI     | GJ |
|----|--------------------|----------|-------|---------|---------|--------|--------|--------|---------|-------|-------|-------|--------|--------|----|
| 1  | ELAN               |          |       |         |         |        |        |        |         |       |       |       |        |        |    |
| 2  |                    |          |       |         |         |        |        |        |         |       |       |       |        |        |    |
| 3  | 0632db             |          |       |         |         |        |        |        |         |       |       |       |        |        |    |
| 4  | code               |          |       |         |         |        |        |        |         |       |       |       |        |        |    |
| 5  | symbol             |          |       |         |         |        |        |        |         |       |       |       |        |        |    |
| 6  | MASSES2            |          |       |         |         |        |        |        |         |       |       |       |        |        |    |
| 7  |                    |          |       |         |         |        |        |        |         |       |       |       |        |        |    |
| 8  |                    |          |       |         |         |        |        |        |         |       |       |       |        |        |    |
| 45 | 37 CB              | 62       | 78    | 22      | 56      | 58     | 78     | 51     | 236     | 69    | 40    | 80    | 3663   | 263705 |    |
| 46 | 38 Std 4C          | 107      | 96    | 1201821 | 2064021 | 729188 | 766556 | 580661 | 1067436 | 19220 | 11198 | 24466 | 786066 | 287965 |    |
| 47 | 39 Trace 0.01 ppm  | 29015    | 35900 | 120840  | 207293  | 344    | 240    | 333    | 3901    | 202   | 60    | 180   | 3401   | 262503 |    |
| 48 | 40 CB              | 18       | 22    | 13      | 16      | 31     | 29     | 11     | 122     | 162   | 71    | 202   | 200    | 67     |    |
| 49 | 41 SN Chunk 080911 | 71       | 62    | 316     | 453     | 542    | 480    | 396    | 153     | 153   | 64    | 151   | 142    | 73     |    |
| 50 | 42 CB              | 42       | 42    | 18      | 9       | 16     | 24     | 22     | 69      | 100   | 64    | 138   | 116    | 69     |    |
| 51 | 43 Std 4C          | 96       | 62    | 1401457 | 2402312 | 864926 | 897611 | 684425 | 1235600 | 20995 | 12975 | 28275 | 898377 | 327262 |    |

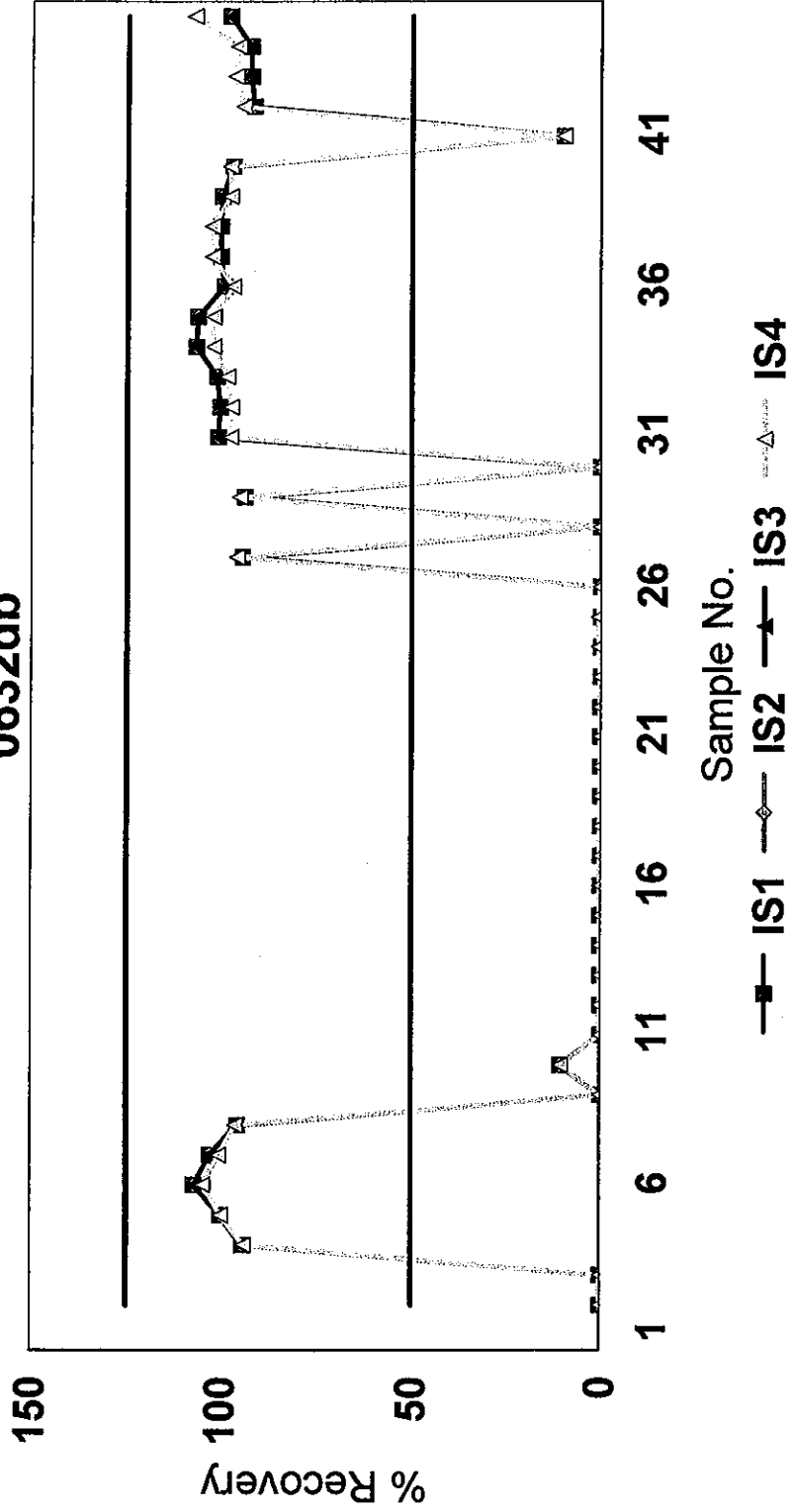
| B  | A                  | B       | GK     | GL     | GM      | GN      | GP      | GQ      | GT | GU | GV | GW | GX | GY | GZ |
|----|--------------------|---------|--------|--------|---------|---------|---------|---------|----|----|----|----|----|----|----|
| 1  | RAW DATA           |         |        |        |         |         |         |         |    |    |    |    |    |    |    |
| 2  | ELAN               |         |        |        |         |         |         |         |    |    |    |    |    |    |    |
| 3  |                    |         |        |        |         |         |         |         |    |    |    |    |    |    |    |
| 4  | 0632db             |         |        |        |         |         |         |         |    |    |    |    |    |    |    |
| 5  | code               |         |        |        |         |         |         |         |    |    |    |    |    |    |    |
| 6  | symbol             |         |        |        |         |         |         |         |    |    |    |    |    |    |    |
| 7  | MASSES2            |         |        |        |         |         |         |         |    |    |    |    |    |    |    |
| 8  |                    |         |        |        |         |         |         |         |    |    |    |    |    |    |    |
| 9  | 1 CB               | 1458    | 822    | 529    | 1211    | 180     | 180     | 4       | 9  |    |    |    |    |    |    |
| 10 | 2 CB               | 1296    | 900    | 573    | 1191    | 164     | 164     | 4       | 4  |    |    |    |    |    |    |
| 11 | 3 Trace 0.1 ppm    | 880     | 856    | 349    | 829     | 307     | 307     | 2805712 | 58 |    |    |    |    |    |    |
| 12 | 4 Std 4C           | 2058224 | 70732  | 545739 | 1375167 | 1853264 | 1823    | 3291103 |    |    |    |    |    |    |    |
| 13 | 5 Std 5C           | 202097  | 76151  | 58385  | 148211  | 207060  | 305     | 354785  |    |    |    |    |    |    |    |
| 14 | 6 Std 6C           | 22373   | 8335   | 6136   | 15899   | 21930   | 144     | 35152   |    |    |    |    |    |    |    |
| 15 | 7 T169             | 84653   | 69195  | 67156  | 156821  | 4248    | 140     | 56814   |    |    |    |    |    |    |    |
| 16 | 8 Nd, I 0.1 ppm    | 3730    | 620    | 244    | 442     | 31      | 4       | 13      |    |    |    |    |    |    |    |
| 17 | 9 Trace 0.01 ppm   | 1427    | 920    | 582    | 1089    | 347     | 309817  | 40      |    |    |    |    |    |    |    |
| 18 | 10 CB              | 1954    | 1096   | 642    | 1320    | 193     | 69      | 18      |    |    |    |    |    |    |    |
| 19 | 11 CB              | 1711    | 898    | 720    | 1302    | 200     | 29      | 4       |    |    |    |    |    |    |    |
| 20 | 12 CB              | 2203    | 578    | 280    | 538     | 47      | 36      | 7       |    |    |    |    |    |    |    |
| 21 | 13 CB              | 2129    | 636    | 293    | 473     | 51      | 36      | 4       |    |    |    |    |    |    |    |
| 22 | 14 Blank           | 1938    | 605    | 304    | 507     | 42      | 22      | 7       |    |    |    |    |    |    |    |
| 23 |                    | 1887    | 10274  | 9084   | 22010   | 456     | 56      | 138     |    |    |    |    |    |    |    |
| 24 |                    | 1851    | 7167   | 6164   | 14982   | 413     | 40      | 158     |    |    |    |    |    |    |    |
| 25 |                    | 1791    | 10206  | 8624   | 21788   | 473     | 51      | 133     |    |    |    |    |    |    |    |
| 26 |                    | 1831    | 7074   | 5973   | 15080   | 309     | 56      | 169     |    |    |    |    |    |    |    |
| 27 |                    | 1654    | 7203   | 6153   | 15060   | 633     | 38      | 178     |    |    |    |    |    |    |    |
| 28 |                    | 1731    | 8004   | 6780   | 16830   | 1147    | 27      | 236     |    |    |    |    |    |    |    |
| 29 |                    | 1943    | 7690   | 6732   | 15946   | 876     | 31      | 167     |    |    |    |    |    |    |    |
| 30 |                    | 1831    | 7639   | 6680   | 16220   | 825     | 33      | 176     |    |    |    |    |    |    |    |
| 31 |                    | 1743    | 39328  | 30914  | 77863   | 2823    | 276     | 193     |    |    |    |    |    |    |    |
| 32 | 24 LFB             | 1965    | 36572  | 27634  | 70427   | 2058    | 271     | 4       |    |    |    |    |    |    |    |
| 33 | 25 Blank           | 1883    | 593    | 253    | 493     | 38      | 11      | 7       |    |    |    |    |    |    |    |
| 34 | 26 Trace 0.1 ppm   | 816     | 920    | 402    | 947     | 407     | 2846854 | 22      |    |    |    |    |    |    |    |
| 35 | 27 Nd, I 0.1 ppm   | 1116    | 502    | 233    | 416     | 38      | 720     | 2       |    |    |    |    |    |    |    |
| 36 | 28 Std 4C          | 1954346 | 684240 | 525481 | 1319736 | 1802675 | 2239    | 3197350 |    |    |    |    |    |    |    |
| 37 | 29 Blank           | 11205   | 651    | 260    | 498     | 196     | 22      | 209     |    |    |    |    |    |    |    |
| 38 | 30 CB              | 3252    | 760    | 456    | 871     | 300     | 136     | 144     |    |    |    |    |    |    |    |
| 39 | 31 CB              | 2256    | 771    | 411    | 851     | 233     | 138     | 64      |    |    |    |    |    |    |    |
| 40 | 32 CB              | 1816    | 796    | 429    | 871     | 260     | 136     | 78      |    |    |    |    |    |    |    |
| 41 | 33 Blank           | 1705    | 136    | 136    | 253     | 242     | 233     | 29      |    |    |    |    |    |    |    |
| 42 | 34 Blank           | 1340    | 138    | 96     | 307     | 369     | 162     | 24      |    |    |    |    |    |    |    |
| 43 | 35 SN Chunk 080911 | 1394    | 5555   | 4750   | 11369   | 591     | 3919    | 3928    |    |    |    |    |    |    |    |
| 44 | 36 LFB             | 1972380 | 694986 | 530710 | 1327329 | 1062    | 227     | 87      |    |    |    |    |    |    |    |

| B  | A                  | B       | GK     | GL     | GM      | GN      | GP     | GQ      | GT    | GU | GV | GW | GX | GY | GZ |
|----|--------------------|---------|--------|--------|---------|---------|--------|---------|-------|----|----|----|----|----|----|
| 1  | RAW DATA           |         |        |        |         |         |        |         |       |    |    |    |    |    |    |
| 2  | ELAN               |         |        |        |         |         |        |         |       |    |    |    |    |    |    |
| 3  |                    |         |        |        |         |         |        |         |       |    |    |    |    |    |    |
| 4  | 0632db             |         |        |        |         |         |        |         |       |    |    |    |    |    |    |
| 5  | code               | 20530   | 20500  | 20500  | 20800   | 20900   | 20900  | 20900   | 20900 |    |    |    |    |    |    |
| 6  | symbol             | BT      | BT     | BT     | BT      | BT      | BT     | BT      | BT    |    |    |    |    |    |    |
| 7  | MASSIES2           | 2005    | 206    | 207    | 208     | 209     | 209    | 209     | 209   |    |    |    |    |    |    |
| 8  |                    |         |        |        |         |         |        |         |       |    |    |    |    |    |    |
| 45 | 37 CB              | 8644    | 827    | 473    | 929     | 929     | 276    | 147     | 51    |    |    |    |    |    |    |
| 46 | 38 Std 4C          | 1991025 | 692568 | 533013 | 1341772 | 1813036 | 364    | 3218973 |       |    |    |    |    |    |    |
| 47 | 39 Trace 0.01 ppm  | 8204    | 856    | 538    | 1120    | 404     | 294014 | 131     |       |    |    |    |    |    |    |
| 48 | 40 CB              | 416     | 144    | 136    | 198     | 153     | 136    | 20      |       |    |    |    |    |    |    |
| 49 | 41 SN Chunk 080911 | 378     | 469    | 322    | 822     | 222     | 133    | 53      |       |    |    |    |    |    |    |
| 50 | 42 CB              | 358     | 127    | 158    | 369     | 98      | 124    | 24      |       |    |    |    |    |    |    |
| 51 | 43 Std 4C          | 2282956 | 784245 | 604519 | 1505310 | 2031765 | 485    | 3692626 |       |    |    |    |    |    |    |





# Internal Standards 0632db



| D  | A      | B       | C       | D     | E  | F | G                             | H | I | J       | K           | L | M         | N |
|----|--------|---------|---------|-------|----|---|-------------------------------|---|---|---------|-------------|---|-----------|---|
| 1  |        |         | IC      |       | IC |   | Calibration Standards Summary |   |   |         |             |   |           |   |
| 2  |        |         | CCV     |       |    |   | CB Subtracted                 |   |   |         |             |   |           |   |
| 3  |        |         | CR      |       |    |   |                               |   |   |         |             |   |           |   |
| 4  |        |         | User Cl |       |    |   |                               |   |   |         |             |   |           |   |
| 5  |        |         | LCS     | Chart |    |   |                               |   |   |         |             |   |           |   |
| 6  |        |         | SRM     | ICS   |    |   |                               |   |   |         | (3 - 123)   |   |           |   |
| 7  | 0632db |         |         |       |    |   |                               |   |   | Std 4C  | Std 5C      |   | Std 6C    |   |
| 8  | code   |         |         |       |    |   |                               |   |   |         |             |   |           |   |
| 9  |        |         |         |       |    |   |                               |   |   |         |             |   |           |   |
| 10 | 270    | Al      |         | 27    |    |   |                               |   |   | 0.1     | 0.01656 *   |   | ND        |   |
| 11 | 1230   | Sb      |         | 123   |    |   |                               |   |   | 0.1     | 0.009734    |   | 0.001135  |   |
| 12 | 1210   | Sb      |         | 121   |    |   |                               |   |   | 0.1     | 0.009591    |   | 0.001073  |   |
| 13 | 750    | As      |         | 75    |    |   |                               |   |   | 0.1     | 0.009868    |   | 0.00131   |   |
| 14 | 751    | As corr |         | 75    |    |   |                               |   |   | 0.1     | 0.009868    |   | 0.00131   |   |
| 15 | 1370   | Ba      |         | 137   |    |   |                               |   |   | 0.1     | 0.009799    |   | 0.001122  |   |
| 16 | 1350   | Ba      |         | 135   |    |   |                               |   |   | 0.1     | 0.009979    |   | 0.001001  |   |
| 17 | 90     | Be      |         | 9     |    |   |                               |   |   | 0.1     | 0.0102      |   | 0.0007367 |   |
| 18 | 2090   | Bi      |         | 209   |    |   |                               |   |   | 0.1     | 0.01067     |   | 0.001164  |   |
| 19 | 100    | B       |         | 10    |    |   |                               |   |   | 0.1     | 0.009151    |   | ND        |   |
| 20 | 110    | B       |         | 11    |    |   |                               |   |   | 0.1     | 0.01112     |   | 0.001354  |   |
| 21 | 1110   | Cd      |         | 111   |    |   |                               |   |   | 0.1     | 0.01003     |   | 0.001088  |   |
| 22 | 1140   | Cd      |         | 114   |    |   |                               |   |   | 0.1     | 0.009751    |   | 0.00101   |   |
| 23 | 440    | Ca      |         | 44    |    |   |                               |   |   | 10      | 1.008       |   | 0.09966   |   |
| 24 | 430    | Ca      |         | 43    |    |   |                               |   |   | 10      | 0.9018      |   | 0.08591   |   |
| 25 | 2080   | Pb      |         | 208   |    |   |                               |   |   | 0.1     | 0.01025     |   | 0.001088  |   |
| 26 | 1400   | Ce      |         | 140   |    |   |                               |   |   | 0.1     | 0.00995     |   | 0.001003  |   |
| 27 | 1330   | Cs      |         | 133   |    |   |                               |   |   | 0.1     | 0.009763    |   | 0.0009983 |   |
| 28 | 520    | Cr      |         | 52    |    |   |                               |   |   | 0.1     | 0.009788    |   | 0.001044  |   |
| 29 | 530    | Cr      |         | 53    |    |   |                               |   |   | 0.1     | 0.009268    |   | ND        |   |
| 30 | 590    | Co      |         | 59    |    |   |                               |   |   | 0.1     | 0.009753    |   | 0.0009775 |   |
| 31 | 630    | Cu      |         | 63    |    |   |                               |   |   | 0.1     | 0.01024     |   | 0.001006  |   |
| 32 | 650    | Cu      |         | 65    |    |   |                               |   |   | 0.1     | 0.01029     |   | 0.001063  |   |
| 33 | 720    | Ge      |         | 72    |    |   |                               |   |   | 0.1     | 0.009558    |   | 0.0009183 |   |
| 34 | 1970   | Au      |         | 197   |    |   |                               |   |   | 0.1     | 0.01008     |   | 0.001046  |   |
| 35 | 560    | Fe      |         | 56    |    |   |                               |   |   | 10      | 1           |   | 0.1029    |   |
| 36 | 570    | Fe      |         | 57    |    |   |                               |   |   | 10      | 0.9914      |   | 0.1025    |   |
| 37 | 1390   | La      |         | 139   |    |   |                               |   |   | 0.1     | 0.009394    |   | ND        |   |
| 38 | 2081   | Pb      |         | 206-8 |    |   |                               |   |   | 0.1     | 0.01019     |   | 0.001063  |   |
| 39 | 2060   | Pb      |         | 206   |    |   |                               |   |   | 0.1     | 0.01018     |   | 0.00106   |   |
| 40 | 70     | Li      |         | 7     |    |   |                               |   |   | 0.1     | 0.009136    |   | ND        |   |
| 41 | 240    | Mg      |         | 24    |    |   |                               |   |   | 10      | 0.8332      |   | 0.1021    |   |
| 42 | 261    | Mg      |         | 25-6  |    |   |                               |   |   | 10      | 0.8549      |   | 0.1069    |   |
| 43 | 550    | Mn      |         | 55    |    |   |                               |   |   | 0.1     | 0.009975    |   | 0.0009526 |   |
| 44 | 2000   | Hg      |         | 200   |    |   |                               |   |   | 0.01    | 0.000863    |   | 0.0001456 |   |
| 45 | 2010   | Hg      |         | 201   |    |   |                               |   |   | 0.01    | 0.0007869 * |   | 0.0001161 |   |
| 46 | 2020   | Hg      |         | 202   |    |   |                               |   |   | 0.01    | 0.0008329   |   | 0.0001463 |   |
| 47 | 950    | Mo      |         | 95    |    |   |                               |   |   | 0.1     | 0.00971     |   | 0.00102   |   |
| 48 | 970    | Mo      |         | 97    |    |   |                               |   |   | 0.1     | 0.009461    |   | 0.001046  |   |
| 49 | 600    | Ni      |         | 60    |    |   |                               |   |   | 0.1     | 0.0101      |   | 0.0009953 |   |
| 50 | 620    | Ni      |         | 62    |    |   |                               |   |   | 0.1     | 0.01003     |   | 0.0009595 |   |
| 51 | 1050   | Pd      |         | 105   |    |   |                               |   |   | 0.1     | 0.01031     |   | 0.001068  |   |
| 52 | 1080   | Pd      |         | 108   |    |   |                               |   |   | 0.1     | 0.01027     |   | 0.001064  |   |
| 53 | 310    | P       |         | 31    |    |   |                               |   |   | 10      | 0.9575      |   | 0.1034    |   |
| 54 | 1950   | Pt      |         | 195   |    |   |                               |   |   | 0.1     | 0.01015     |   | 0.001034  |   |
| 55 | 390    | K       |         | 39    |    |   |                               |   |   | 10      | 0.8113      |   | 0.09886   |   |
| 56 | 1030   | Rh      |         | 103   |    |   |                               |   |   | 0.1     | 0.009943    |   | 0.001043  |   |
| 57 | 850    | Rb      |         | 85    |    |   |                               |   |   | 0.1     | 0.009527    |   | 0.001043  |   |
| 58 | 770    | Se      |         | 77    |    |   |                               |   |   | 1       | 0.09726     |   | 0.01034   |   |
| 59 | 820    | Se      |         | 82    |    |   |                               |   |   | 1       | 0.08791     |   | 0.01209   |   |
| 60 | 780    | Se      |         | 78    |    |   |                               |   |   | 1       | 0.09668     |   | 0.01079   |   |
| 61 | 280    | Si      |         | 28    |    |   |                               |   |   | 10      | 0.984       |   | 0.1037    |   |
| 62 | 1090   | Ag      |         | 109   |    |   |                               |   |   | 0.1     | 0.01014     |   | 0.001074  |   |
| 63 | 1070   | Ag      |         | 107   |    |   |                               |   |   | 0.1     | 0.01004     |   | 0.001082  |   |
| 64 | 230    | Na      |         | 23    |    |   |                               |   |   | 10      | 0.9898      |   | 0.1036    |   |
| 65 | 880    | Sr      |         | 88    |    |   |                               |   |   | 0.1     | 0.00975     |   | 0.0009336 |   |
| 66 | 1250   | Te      |         | 125   |    |   |                               |   |   | 0.1     | 0.01155     |   | 0.001096  |   |
| 67 | 2030   | Tl      |         | 203   |    |   |                               |   |   | 0.1     | 0.009763    |   | 0.001022  |   |
| 68 | 2050   | Tl      |         | 205   |    |   |                               |   |   | 0.1     | 0.009305    |   | 0.000994  |   |
| 69 | 1180   | Sn      |         | 118   |    |   |                               |   |   | 0.1     | 0.009733    |   | 0.001013  |   |
| 70 | 1200   | Sn      |         | 120   |    |   |                               |   |   | 0.1     | 0.00995     |   | 0.001023  |   |
| 71 | 470    | Ti      |         | 47    |    |   |                               |   |   | 0.1     | 0.00995     |   | 0.001409  |   |
| 72 | 490    | Ti      |         | 49    |    |   |                               |   |   | 0.1     | 0.009973    |   | 0.0009774 |   |
| 73 | 2380   | U       |         | 238   |    |   |                               |   |   | 0.1     | 0.0103      |   | 0.001061  |   |
| 74 | 510    | V       |         | 51    |    |   |                               |   |   | 0.1     | 0.009144    |   | ND        |   |
| 75 | 511    | V corr  |         | 51    |    |   |                               |   |   | 0.09607 | 0.00903     |   | ND        |   |
| 76 | 680    | Zn      |         | 68    |    |   |                               |   |   | 0.1     | 0.01025     |   | 0.001728  |   |
| 77 | 660    | Zn      |         | 66    |    |   |                               |   |   | 0.1     | 0.01018     |   | 0.001915  |   |
| 78 | 640    | Zn      |         | 64    |    |   |                               |   |   | 0.1     | 0.009964    |   | 0.00171   |   |



| D  | A    | B      | C | D   | P       | Q | R       | S | T       | U | V       | W | X | Y | Z | AA | AB | AC |
|----|------|--------|---|-----|---------|---|---------|---|---------|---|---------|---|---|---|---|----|----|----|
| 68 | 2050 | Tl     |   | 205 | 0.1     |   | 0.09983 |   | 0.09893 |   | 0.1034  |   |   |   |   |    |    |    |
| 69 | 1180 | Sn     |   | 118 | 0.1     |   | 0.1017  |   | 0.101   |   | 0.1034  |   |   |   |   |    |    |    |
| 70 | 1200 | Sn     |   | 120 | 0.1     |   | 0.1014  |   | 0.1015  |   | 0.1045  |   |   |   |   |    |    |    |
| 71 | 470  | Ti     |   | 47  | 0.1     |   | 0.09725 |   | 0.09584 |   | 0.09082 |   |   |   |   |    |    |    |
| 72 | 490  | Ti     |   | 49  | 0.1     |   | 0.09634 |   | 0.09877 |   | 0.09416 |   |   |   |   |    |    |    |
| 73 | 2380 | U      |   | 238 | 0.1     |   | 0.1021  |   | 0.1     |   | 0.1046  |   |   |   |   |    |    |    |
| 74 | 510  | V      |   | 51  | 0.1     |   | 0.1011  |   | 0.1002  |   | 0.1039  |   |   |   |   |    |    |    |
| 75 | 511  | V corr |   | 51  | 0.09607 |   | 0.09718 |   | 0.09595 |   | 0.1003  |   |   |   |   |    |    |    |
| 76 | 680  | Zn     |   | 68  | 0.1     |   | 0.1006  |   | 0.09886 |   | 0.0997  |   |   |   |   |    |    |    |
| 77 | 660  | Zn     |   | 66  | 0.1     |   | 0.103   |   | 0.1009  |   | 0.1025  |   |   |   |   |    |    |    |
| 78 | 640  | Zn     |   | 64  | 0.1     |   | 0.101   |   | 0.1006  |   | 0.1023  |   |   |   |   |    |    |    |



| D  | A      | B       | C     | D   | BT        | BU        | BV         | BW | BX | BY        | BZ      | CA |
|----|--------|---------|-------|-----|-----------|-----------|------------|----|----|-----------|---------|----|
| 1  |        | IC      |       | LCS | Sample:   | USGS T169 |            |    |    | File:     | 0632db7 |    |
| 2  |        | CCV     |       |     | Date      |           |            |    |    | Dil Fact: | 1       |    |
| 3  |        | CB      |       |     | Analyzed: | 11-26-08  |            |    |    |           |         |    |
| 4  |        | User CB |       |     |           |           |            |    |    |           |         |    |
| 5  |        | LCS     | Chart |     |           |           |            |    |    |           |         |    |
| 6  |        | SRM     | ICS   |     | Certified |           |            |    |    | %         |         |    |
| 7  | 0632db |         |       |     | Value     | Found     | Acceptable |    |    | %         |         |    |
| 8  | code   |         |       |     | ug/L      | ug/L      | Error      |    |    | Error     |         |    |
| 9  |        |         |       |     |           |           |            |    |    |           |         |    |
| 10 | 270    | Al      | 27    |     | 33.6      | 31.9      | 11         |    |    | -5.1%     |         |    |
| 11 | 1230   | Sb      | 123   |     | 3.33      | 3.21      | 15         |    |    | -3.6%     |         |    |
| 12 | 1210   | Sb      | 121   |     | 3.33      | 3.14      | 15         |    |    | -5.7%     |         |    |
| 13 | 750    | As      | 75    |     | 8.63      | 8.42      | 15         |    |    | -2.4%     |         |    |
| 14 | 751    | As corr | 75    |     | 8.63      | 8.42      | 15         |    |    | -2.4%     |         |    |
| 15 | 1370   | Ba      | 137   |     | 43.1      | 43.5      | 15         |    |    | 0.9%      |         |    |
| 16 | 1350   | Ba      | 135   |     | 43.1      | 43.9      | 15         |    |    | 1.9%      |         |    |
| 17 | 90     | Be      | 9     |     | 9.61      | 10.5      | 15         |    |    | 9.3%      |         |    |
| 18 | 2090   | Bi      | 209   |     |           |           |            |    |    |           |         |    |
| 19 | 100    | B       | 10    |     | 24.5      | 27.5      | 25         |    |    | 12.2%     |         |    |
| 20 | 110    | B       | 11    |     | 24.5      | 26.7      | 25         |    |    | 9.0%      |         |    |
| 21 | 1110   | Cd      | 111   |     | 3.4       | 3.48      | 15         |    |    | 2.4%      |         |    |
| 22 | 1140   | Cd      | 114   |     | 3.4       | 3.43      | 15         |    |    | 0.9%      |         |    |
| 23 | 440    | Ca      | 44    |     | 37600     | 34400     | 15         |    |    | -8.5%     |         |    |
| 24 | 430    | Ca      | 43    |     | 37600     | 32500     | 15         |    |    | -13.6%    |         |    |
| 25 | 2080   | Pb      | 208   |     | 11.4      | 11.8      | 15         |    |    | 3.5%      |         |    |
| 26 | 1400   | Ce      | 140   |     |           |           |            |    |    |           |         |    |
| 27 | 1330   | Cs      | 133   |     |           |           |            |    |    |           |         |    |
| 28 | 520    | Cr      | 52    |     | 8.17      | 8.28      | 20         |    |    | 1.3%      |         |    |
| 29 | 530    | Cr      | 53    |     | 8.17      | 7.16      | 20         |    |    | -12.4%    |         |    |
| 30 | 590    | Co      | 59    |     | 1.91      | 1.91      | 15         |    |    | 0.0%      |         |    |
| 31 | 630    | Cu      | 63    |     | 14.3      | 14.5      | 15         |    |    | 1.4%      |         |    |
| 32 | 650    | Cu      | 65    |     | 14.3      | 14.6      | 15         |    |    | 2.1%      |         |    |
| 33 | 720    | Ge      | 72    |     |           |           |            |    |    |           |         |    |
| 34 | 1970   | Au      | 197   |     |           |           |            |    |    |           |         |    |
| 35 | 560    | Fe      | 56    |     | 11.1      | 10.5      | 15         |    |    | -5.4%     |         |    |
| 36 | 570    | Fe      | 57    |     | 11.1      | 13.4      | 15         |    |    | 20.7%     | **      |    |
| 37 | 1390   | La      | 139   |     |           |           |            |    |    |           |         |    |
| 38 | 2081   | Pb      | 206-8 |     | 11.4      | 11.5      | 15         |    |    | 0.9%      |         |    |
| 39 | 2060   | Pb      | 206   |     | 11.4      | 10.1      | 15         |    |    | -11.4%    |         |    |
| 40 | 70     | Li      | 7     |     | 9.6       | 9.23      | 15         |    |    | -3.9%     |         |    |
| 41 | 240    | Mg      | 24    |     | 4300      | 4350      | 15         |    |    | 1.2%      |         |    |
| 42 | 261    | Mg      | 25-6  |     | 4300      | 4310      | 15         |    |    | 0.2%      |         |    |
| 43 | 550    | Mn      | 55    |     | 27        | 26.9      | 15         |    |    | -0.4%     |         |    |
| 44 | 2000   | Hg      | 200   |     |           |           |            |    |    |           |         |    |
| 45 | 2010   | Hg      | 201   |     |           |           |            |    |    |           |         |    |
| 46 | 2020   | Hg      | 202   |     |           |           |            |    |    |           |         |    |
| 47 | 950    | Mo      | 95    |     | 70.6      | 72.9      | 15         |    |    | 3.3%      |         |    |
| 48 | 970    | Mo      | 97    |     | 70.6      | 72.4      | 15         |    |    | 2.5%      |         |    |
| 49 | 600    | Ni      | 60    |     | 10.3      | 10.2      | 25         |    |    | -1.0%     |         |    |
| 50 | 620    | Ni      | 62    |     | 10.3      | 10.2      | 25         |    |    | -1.0%     |         |    |
| 51 | 1050   | Pd      | 105   |     |           |           |            |    |    |           |         |    |
| 52 | 1080   | Pd      | 108   |     |           |           |            |    |    |           |         |    |
| 53 | 310    | P       | 31    |     |           |           |            |    |    |           |         |    |
| 54 | 1950   | Pt      | 195   |     |           |           |            |    |    |           |         |    |
| 55 | 390    | K       | 39    |     | 2590      | 2580      | 15         |    |    | -0.4%     |         |    |
| 56 | 1030   | Rh      | 103   |     |           |           |            |    |    |           |         |    |
| 57 | 850    | Rb      | 85    |     |           |           |            |    |    |           |         |    |
| 58 | 770    | Se      | 77    |     | 2.94      | 0         | 50         |    |    | -100.0%   | **      |    |
| 59 | 820    | Se      | 82    |     | 2.94      | 3.81      | 50         |    |    | 29.6%     |         |    |
| 60 | 780    | Se      | 78    |     | 2.94      | 0         | 50         |    |    | -100.0%   | **      |    |
| 61 | 280    | Si      | 28    |     | 2820      | 2960      | 15         |    |    | 5.0%      |         |    |
| 62 | 1090   | Ag      | 109   |     | 3.9       | 3.99      | 15         |    |    | 2.3%      |         |    |
| 63 | 1070   | Ag      | 107   |     | 3.9       | 4.08      | 15         |    |    | 4.6%      |         |    |

| D  | A    | B      | C   | D | BT | BU    | BV    | BW | BX | BY | BZ     | CA |
|----|------|--------|-----|---|----|-------|-------|----|----|----|--------|----|
| 64 | 230  | Na     | 23  |   |    | 10600 | 10500 |    | 15 |    | -0.9%  |    |
| 65 | 880  | Sr     | 88  |   |    | 174   | 184   |    | 15 |    | 5.7%   |    |
| 66 | 1250 | Te     | 125 |   |    |       |       |    |    |    |        |    |
| 67 | 2030 | Tl     | 203 |   |    | 4.8   | 4.36  |    | 15 |    | -9.2%  |    |
| 68 | 2050 | Tl     | 205 |   |    | 4.8   | 4.19  |    | 15 |    | -12.7% |    |
| 69 | 1180 | Sn     | 118 |   |    |       |       |    |    |    |        |    |
| 70 | 1200 | Sn     | 120 |   |    |       |       |    |    |    |        |    |
| 71 | 470  | Ti     | 47  |   |    |       |       |    |    |    |        |    |
| 72 | 490  | Ti     | 49  |   |    |       |       |    |    |    |        |    |
| 73 | 2380 | U      | 238 |   |    | 1.71  | 1.79  |    | 15 |    | 4.7%   |    |
| 74 | 510  | V      | 51  |   |    | 7.42  | 7.26  |    | 15 |    | -2.2%  |    |
| 75 | 511  | V corr | 51  |   |    | 7.42  | 7.26  |    | 15 |    | -2.2%  |    |
| 76 | 680  | Zn     | 68  |   |    | 19.2  | 21.5  |    | 15 |    | 12.0%  |    |
| 77 | 660  | Zn     | 66  |   |    | 19.2  | 19.8  |    | 15 |    | 3.1%   |    |
| 78 | 640  | Zn     | 64  |   |    | 19.2  | 19.1  |    | 15 |    | -0.5%  |    |



| MULTI<br>RPT1 | goto<br>RPT2             | M8 | Solution Concentration |            |            |            |            |           |      |  |
|---------------|--------------------------|----|------------------------|------------|------------|------------|------------|-----------|------|--|
|               |                          |    | 1630                   | 1680       | 1530       | 1600       | 1650       | 1750      | 1690 |  |
| 0632db        | QC1                      |    | Dy                     | Er         | Eu         | Gd         | Ho         | Lu        | Tb   |  |
| 1             | SAMPLE                   |    | 163 [159]              | 166 [159]  | 153 [159]  | 160 [159]  | 165 [159]  | 175 [159] | 159  |  |
| 1             | CB                       |    | ND                     | ND         | 0.006782   | ND         | 0.001839   | 0.00345   | 0    |  |
| 2             | CB                       |    | ND                     | 0.0722     | ND         | ND         | ND         | 0.01667   | 0    |  |
| 3             | Trace 0.1 ppm            |    | 0.1                    | 0.1        | 0.1        | 0.1        | 0.1        | 0.1       | 98   |  |
| 4             | Std 4C                   |    | ND                     | ND         | 0.00002799 | 0.00001986 | ND         | ND        | 104  |  |
| 5             | Std 5C                   |    | ND                     | ND         | ND         | ND         | ND         | ND        | 109  |  |
| 6             | Std 6C                   |    | ND                     | ND         | ND         | ND         | ND         | ND        | 105  |  |
| 7             | T169                     |    | ND                     | ND         | ND         | ND         | ND         | ND        | 100  |  |
| 8             | Nd, I 0.1 ppm            |    | ND                     | 0.00005605 | ND         | 0.0002635  | ND         | ND        | 98   |  |
| 9             | Trace 0.01 (1:10 of 0.1) |    | 0.09804                | 0.09861    | 0.09843    | 0.09862    | 0.09918    | 0.09821   | 11   |  |
| 10            | CB                       |    | 0.06251                | 0.1051     | 0.08215    | 0.07636    | 0.05477    | 0.09848   | 0    |  |
| 11            | CB                       |    | 0.07495                | ND         | ND         | 0.03268    | 0.04563    | 0.07374   | 0    |  |
| 12            | Blank                    |    | ND                     | 0.2891     | 0.3702     | 0.18       | 0.0502     | ND        | 0    |  |
| 13            | Blank                    |    | 0.4127                 | ND         | 0.2465     | 0.72       | ND         | 0.4077    | 0    |  |
| 14            | Blank                    |    | ND                     | ND         | ND         | ND         | ND         | 0.4077    | 0    |  |
| 15            | F080123                  |    | 0.3095                 | 0.03096    | 2.579      | 0.5271     | 0.01793    | 0.009412  | 0    |  |
| 16            | F080124                  |    | 0.7911                 | 0.1445     | 11.97      | 1.11       | 0.0753     | 0.04498   | 0    |  |
| 17            | F080123                  |    | 0.2498                 | 0.01902    | 1.651      | 0.4405     | 0.00925    | 0.005076  | 0    |  |
| 18            | F080124                  |    | 0.777                  | 0.05104    | 7.162      | 1.08       | 0.06498    | 0.01567   | 0    |  |
| 19            | F080125                  |    | 0.5091                 | 0.05781    | 3.862      | 0.72       | 0.04017    | 0.02686   | 0    |  |
| 20            | F080126                  |    | 0.3227                 | 0.03153    | 2.658      | 0.4778     | 0.01461    | 0.007123  | 0    |  |
| 21            | F080127                  |    | 0.2555                 | 0.02754    | 3.134      | 0.5657     | 0.03108    | 0.006172  | 0    |  |
| 22            | F080127 Dup              |    | 0.2229                 | 0.02891    | 2.46       | 0.4392     | 0.02611    | 0.016     | 0    |  |
| 23            | F080127 MS               |    | 0.2486                 | 0.4017     | 1.036      | 0.3896     | 0.03957    | 1.963     | 0    |  |
| 24            | LFB                      |    | 0.253                  | 0.4118     | 1.021      | 0.3927     | 0.04226    | 2.001     | 1    |  |
| 25            | Blank                    |    | ND                     | 0.1444     | 0.8009     | 0.08989    | 0.02507    | 0.9843    | 0    |  |
| 26            | Trace 0.1 ppm            |    | 0.09869                | 0.09911    | 0.09884    | 0.09933    | 0.099      | 0.09772   | 100  |  |
| 27            | Nd, I 0.1 ppm            |    | 0.00002641             | 0.00007252 | 0.00002071 | 0.0002553  | 0.00001867 | ND        | 98   |  |
| 28            | Std 4C                   |    | ND                     | ND         | 0.00001874 | ND         | ND         | ND        | 99   |  |
| 29            | Blank                    |    | 0.01099                | 0.007698   | 0.006562   | ND         | 0.009369   | 0.005145  | 0    |  |
| 30            | CB                       |    | ND                     | ND         | ND         | ND         | ND         | ND        | 102  |  |
| 31            | CB                       |    | ND                     | ND         | ND         | ND         | ND         | ND        | 102  |  |
| 32            | CB                       |    | ND                     | ND         | ND         | ND         | ND         | ND        | 103  |  |
| 33            | Blank                    |    | ND                     | ND         | ND         | ND         | ND         | ND        | 106  |  |
| 34            | Blank                    |    | ND                     | ND         | ND         | ND         | ND         | ND        | 106  |  |
| 35            | SN Chunk 080911          |    | 0.00006198             | 0.00004201 | 0.00001672 | 0.00007297 | ND         | ND        | 101  |  |
| 36            | LFB                      |    | ND                     | ND         | ND         | ND         | ND         | ND        | 107  |  |
| 37            | CB                       |    | ND                     | ND         | ND         | ND         | ND         | ND        | 102  |  |
| 38            | Std 4C                   |    | ND                     | ND         | ND         | ND         | ND         | ND        | 102  |  |
| 39            | Trace 0.01 (1:10 of 0.1) |    | 0.09748                | 0.09897    | 0.09815    | 0.09911    | 0.09938    | 0.09703   | 10   |  |
| 40            | CB                       |    | ND                     | ND         | ND         | ND         | ND         | ND        | 98   |  |
| 41            | SN Chunk 080911          |    | ND                     | ND         | ND         | ND         | ND         | ND        | 101  |  |
| 42            | CB                       |    | ND                     | ND         | ND         | ND         | ND         | ND        | 100  |  |
| 43            | Std 4C                   |    | ND                     | ND         | 0.0000157  | ND         | ND         | ND        | 112  |  |

Note - 9, 39 have 10% of normal  
Int6

OK

| MULTI  | goto                     |    |            | Solution Concentration |            |  |            |            |      |     |  |  |
|--------|--------------------------|----|------------|------------------------|------------|--|------------|------------|------|-----|--|--|
| RPT1   | RPT2                     | M8 | 1460       | 1410                   | 1470       |  | 1690       | 1720       | 1590 |     |  |  |
|        | QC1                      |    | Nd         | Pr                     | Sm         |  | Tm         | Yb         | Tb   |     |  |  |
| 0832db | SAMPLE                   |    | 146 [159]  | 141 [159]              | 147 [159]  |  | 169 [159]  | 172 [159]  | 159  |     |  |  |
| 1      | CB                       |    | 0.01318    | 0.01255                | ND         |  | ND         | 0.01383    |      | 0   |  |  |
| 2      | CB                       |    | ND         | 0.1331                 | 0.1216     |  | 0.01107    | ND         |      | 0   |  |  |
| 3      | Trace 0.1 ppm            |    | ND         | 0.1                    | 0.1        |  | 0.1        | 0.1        |      | 98  |  |  |
| 4      | Std 4C                   |    | ND         | 0.00001628             | 0.00001643 |  | ND         | 0.00001802 |      | 104 |  |  |
| 5      | Std 5C                   |    | ND         | ND                     | ND         |  | ND         | ND         |      | 109 |  |  |
| 6      | Std 6C                   |    | ND         | ND                     | ND         |  | ND         | ND         |      | 105 |  |  |
| 7      | T169                     |    | 0.00006257 | ND                     | ND         |  | ND         | ND         |      | 100 |  |  |
| 8      | Nd, I 0.1 ppm            |    | 0.1        | ND                     | ND         |  | ND         | ND         |      | 98  |  |  |
| 9      | Trace 0.01 (1:10 of 0.1) |    | 0.0004545  | 0.09702                | 0.09938    |  | 0.09959    | 0.09865    |      | 11  |  |  |
| 10     | CB                       |    | 0.04355    | 0.1244                 | 0.05894    |  | 0.06448    | 0.05711    |      | 0   |  |  |
| 11     | CB                       |    | 0.1307     | 0.1382                 | 0.08841    |  | 0.02419    | 0.03423    |      | 0   |  |  |
| 12     | Blank                    |    | 1.081      | 0.1521                 | ND         |  | ND         | 0.1885     |      | 0   |  |  |
| 13     | Blank                    |    | 0.7195     | 0.3042                 | 0.9737     |  | 0.355      | 0.7558     |      | 0   |  |  |
| 14     | Blank                    |    | 0.7195     | 0.4569                 | 0.9737     |  | 0.1773     | 0.7541     |      | 0   |  |  |
| 15     | F080123                  |    | 8.596      | 2.7                    | 0.2434     |  | 0.01267    | 0.1144     |      | 0   |  |  |
| 16     | F080124                  |    | 10.37      | 4.03                   | 0.8926     |  | 0.05911    | 0.2514     |      | 0   |  |  |
| 17     | F080123                  |    | 5.548      | 1.939                  | 0.1665     |  | 0.006997   | 0.03473    |      | 0   |  |  |
| 18     | F080124                  |    | 7.83       | 2.308                  | 0.7446     |  | 0.04172    | 0.244      |      | 0   |  |  |
| 19     | F080125                  |    | 5.037      | 1.744                  | 0.779      |  | 0.01477    | 0.1257     |      | 0   |  |  |
| 20     | F080126                  |    | 3.872      | 1.452                  | 0.3364     |  | 0.008058   | 0.06854    |      | 0   |  |  |
| 21     | F080127                  |    | 4.317      | 1.651                  | 0.5333     |  | 0.02744    | 0.1257     |      | 0   |  |  |
| 22     | F080127 Dup              |    | 3.511      | 1.46                   | 0.5258     |  | 0.01773    | 0.08296    |      | 0   |  |  |
| 23     | F080127 MS               |    | 0.9283     | 0.9869                 | 0.3965     |  | 0.249      | 0.9958     |      | 0   |  |  |
| 24     | LFB                      |    | 0.8808     | 0.9895                 | 0.3967     |  | 0.2562     | 1.024      |      | 1   |  |  |
| 25     | Blank                    |    | 0.8992     | 0.2662                 | 0.2431     |  | 0.1329     | 0.7541     |      | 0   |  |  |
| 26     | Trace 0.1 ppm            |    | ND         | 0.09703                | 0.09762    |  | 0.09884    | 0.0996     |      | 100 |  |  |
| 27     | Nd, I 0.1 ppm            |    | 0.08739    | 0.00002143             | 0.00001756 |  | 0.00001906 | 0.00001779 |      | 98  |  |  |
| 28     | Std 4C                   |    | 0.0000469  | ND                     | ND         |  | ND         | ND         |      | 99  |  |  |
| 29     | Blank                    |    | 0.01916    | 0.006083               | ND         |  | 0.00118    | 0.02512    |      | 0   |  |  |
| 30     | CB                       |    | ND         | ND                     | ND         |  | ND         | ND         |      | 102 |  |  |
| 31     | CB                       |    | ND         | ND                     | ND         |  | ND         | ND         |      | 102 |  |  |
| 32     | CB                       |    | ND         | ND                     | ND         |  | ND         | ND         |      | 103 |  |  |
| 33     | Blank                    |    | ND         | ND                     | ND         |  | ND         | ND         |      | 106 |  |  |
| 34     | Blank                    |    | ND         | ND                     | ND         |  | ND         | ND         |      | 106 |  |  |
| 35     | SN Chunk 080911          |    | 0.0002272  | 0.00006291             | 0.00007642 |  | ND         | 0.0000318  |      | 101 |  |  |
| 36     | LFB                      |    | ND         | ND                     | ND         |  | ND         | ND         |      | 107 |  |  |
| 37     | CB                       |    | ND         | ND                     | ND         |  | ND         | ND         |      | 102 |  |  |
| 38     | Std 4C                   |    | ND         | ND                     | ND         |  | ND         | ND         |      | 102 |  |  |
| 39     | Trace 0.01 (1:10 of 0.1) |    | 0.00003316 | 0.09639                | 0.09746    |  | 0.1003     | 0.09868    |      | 10  |  |  |
| 40     | CB                       |    | ND         | ND                     | ND         |  | ND         | ND         |      | 98  |  |  |
| 41     | SN Chunk 080911          |    | ND         | ND                     | ND         |  | ND         | ND         |      | 101 |  |  |
| 42     | CB                       |    | ND         | ND                     | ND         |  | ND         | ND         |      | 100 |  |  |
| 43     | Std 4C                   |    | ND         | ND                     | ND         |  | ND         | ND         |      | 112 |  |  |

| MULTI  | goto                     |    | Solution Concentration |            |            |  |           |           |      |
|--------|--------------------------|----|------------------------|------------|------------|--|-----------|-----------|------|
| RPT1   | RPT2                     | M8 | 810                    | 710        | 1780       |  | 1270      | 930       | 1590 |
|        | QC1                      |    | Br                     | Ga         | Hf         |  | I         | Nb        | Tb   |
| 0632db | SAMPLE                   |    | 81 [115]               | 71 [115]   | 178 [159]  |  | 127 [115] | 93 [115]  | 159  |
| 1      | CB                       |    | 5.164                  | 0.07369    | 0.01498    |  | 0.4408    | 0.003197  | 0    |
| 2      | CB                       |    | 67.55                  | ND         | 0.1634     |  | 4.047     | ND        | 0    |
| 3      | Trace 0.1 ppm            |    | 0.1                    | 0.1        | 0.1        |  | ND        | 0.1       | 98   |
| 4      | Std 4C                   |    | 0.06091                | 0.005754   | 0.00008525 |  | ND        | 0.00404   | 104  |
| 5      | Std 5C                   |    | 0.004863               | 0.0006418  | 0.0000248  |  | ND        | 0.000122  | 109  |
| 6      | Std 6C                   |    | ND                     | 0.00006333 | ND         |  | ND        | ND        | 105  |
| 7      | T169                     |    | ND                     | ND         | ND         |  | ND        | ND        | 100  |
| 8      | Nd, 10.1 ppm             |    | ND                     | 0.008651   | ND         |  | 0.1       | ND        | 98   |
| 9      | Trace 0.01 (1:10 of 0.1) |    | 0.1235                 | 0.1027     | 0.09715    |  | 0.0425    | 0.07565   | 11   |
| 10     | CB                       |    | 72.64                  | ND         | 0.1189     |  | 86.11     | 2.176     | 0    |
| 11     | CB                       |    | 125.2                  | ND         | 0.2377     |  | 82.98     | 3.64      | 0    |
| 12     | Blank                    |    | 114.8                  | 0.2779     | 1.146      |  | 40.24     | 2.129     | 0    |
| 13     | Blank                    |    | 128.5                  | ND         | 1.636      |  | 54.72     | 3.143     | 0    |
| 14     | Blank                    |    | 131.4                  | 0.4634     | 2.945      |  | 41.29     | 3.366     | 0    |
| 15     | F080123                  |    | 42.23                  | 3.34       | 0.05836    |  | 18.94     | 1.597     | 0    |
| 16     | F080124                  |    | 37.16                  | 1.879      | 0.109      |  | 16.08     | 1.405     | 0    |
| 17     | F080123                  |    | 42.23                  | 2.087      | 0.043      |  | 13.22     | 1.405     | 0    |
| 18     | F080124                  |    | 25.68                  | 1.002      | 0.07692    |  | 10.15     | 0.6832    | 0    |
| 19     | F080125                  |    | 175.9                  | 4.179      | 0.05447    |  | 47.21     | 3.419     | 0    |
| 20     | F080126                  |    | 32.44                  | 1.336      | 0.02377    |  | 10.29     | 0.8594    | 0    |
| 21     | F080127                  |    | 51.79                  | 3.895      | 0.03891    |  | 15.95     | 1.431     | 0    |
| 22     | F080127 Dup              |    | 48.67                  | 1.67       | 0.02615    |  | 8.433     | 0.8815    | 0    |
| 23     | F080127 MS               |    | 83.31                  | 166.7      | 0.0003956  |  | 13.57     | 1.652     | 0    |
| 24     | LFB                      |    | 37.64                  | 89.46      | 0.0007007  |  | 5.715     | 0.7553    | 1    |
| 25     | Blank                    |    | 35.47                  | ND         | 0.1633     |  | 10.9      | 0.8537    | 0    |
| 26     | Trace 0.1 ppm            |    | 0.1034                 | 0.1031     | 0.09921    |  | ND        | 0.1086    | 100  |
| 27     | Nd, 10.1 ppm             |    | ND                     | 0.007327   | 0.00002983 |  | 0.08883   | 0.0000606 | 98   |
| 28     | Std 4C                   |    | 0.06189                | 0.005789   | 0.0001188  |  | 0.003899  | 0.002576  | 99   |
| 29     | Blank                    |    | 27.78                  | 0.1855     | 0.008702   |  | 16.55     | 0.465     | 0    |
| 30     | CB                       |    | ND                     | ND         | ND         |  | ND        | ND        | 102  |
| 31     | CB                       |    | ND                     | ND         | ND         |  | ND        | ND        | 102  |
| 32     | CB                       |    | ND                     | ND         | ND         |  | ND        | ND        | 103  |
| 33     | Blank                    |    | ND                     | ND         | ND         |  | ND        | ND        | 106  |
| 34     | Blank                    |    | ND                     | ND         | ND         |  | ND        | ND        | 106  |
| 35     | SN Chunk 080911          |    | ND                     | 0.07261    | 0.0000564  |  | ND        | 0.000215  | 101  |
| 36     | LFB                      |    | ND                     | 0.00003441 | ND         |  | ND        | 0.0007783 | 107  |
| 37     | CB                       |    | ND                     | ND         | ND         |  | ND        | ND        | 102  |
| 38     | Std 4C                   |    | 0.05958                | 0.005945   | 0.00002762 |  | ND        | 0.0003167 | 102  |
| 39     | Trace 0.01 (1:10 of 0.1) |    | 0.1491                 | 0.1023     | 0.09693    |  | 0.001979  | 0.07384   | 10   |
| 40     | CB                       |    | ND                     | ND         | ND         |  | ND        | ND        | 98   |
| 41     | SN Chunk 080911          |    | ND                     | 0.0007125  | ND         |  | ND        | ND        | 101  |
| 42     | CB                       |    | ND                     | ND         | ND         |  | ND        | ND        | 100  |
| 43     | Std 4C                   |    | 0.04525                | 0.006402   | 0.00003898 |  | ND        | 0.0001867 | 112  |

| MULTI  | goto                     |    | Solution Concentration |            |  |           |            |            |      |  |  |
|--------|--------------------------|----|------------------------|------------|--|-----------|------------|------------|------|--|--|
| RPT1   | RPT2                     | M8 | 1880                   | 1010       |  | 1810      | 2320       | 1820       | 1590 |  |  |
|        | QC1                      |    | Os                     | Ru         |  | Ta        | Th         | W          | Tb   |  |  |
| 0832db | SAMPLE                   |    | 188 [159]              | 101 [115]  |  | 181 [159] | 232 [159]  | 182 [159]  | 159  |  |  |
| 1      | CB                       |    | 0.01918                | ND         |  | 0.1542    | 0.001448   | 0.01639    | 0    |  |  |
| 2      | CB                       |    | 0.262                  | ND         |  | 0.0114    | 0.0198     | 0.3137     | 0    |  |  |
| 3      | Trace 0.1 ppm            |    | 0.1                    | 0.1        |  | 0.1       | 0.1        | 0.1        | 98   |  |  |
| 4      | Std 4C                   |    | 0.001028               | 0.00002331 |  | 0.005277  | 0.00005643 | 0.0008665  | 104  |  |  |
| 5      | Std 5C                   |    | 0.0001968              | ND         |  | 0.0001583 | ND         | 0.00008086 | 109  |  |  |
| 6      | Std 6C                   |    | 0.00008144             | ND         |  | ND        | ND         | ND         | 105  |  |  |
| 7      | T169                     |    | ND                     | ND         |  | ND        | ND         | ND         | 100  |  |  |
| 8      | Nd, I 0.1 ppm            |    | ND                     | ND         |  | ND        | ND         | ND         | 98   |  |  |
| 9      | Trace 0.01 (1:10 of 0.1) |    | 0.09014                | 0.1005     |  | 0.0653    | 0.1        | 0.08901    | 11   |  |  |
| 10     | CB                       |    | 3.555                  | 0.2523     |  | 0.2273    | 0.07448    | 1.673      | 0    |  |  |
| 11     | CB                       |    | 3.746                  | 0.2019     |  | 0.6404    | 0.09368    | 2.9        | 0    |  |  |
| 12     | Blank                    |    | 20.63                  | 0.3363     |  | 3.389     | 0.635      | 14.18      | 0    |  |  |
| 13     | Blank                    |    | 26.57                  | 0.6061     |  | 8.335     | 1.27       | 27.99      | 0    |  |  |
| 14     | Blank                    |    | 18.18                  | 0.6728     |  | 7.603     | 0.7936     | 17.59      | 0    |  |  |
| 15     | F080123                  |    | 0.3367                 | 0.1008     |  | 0.1389    | 0.03539    | 1.69       | 0    |  |  |
| 16     | F080124                  |    | 1.397                  | 0.2019     |  | 0.5642    | 0.1189     | 6.214      | 0    |  |  |
| 17     | F080123                  |    | 0.1929                 | 0.05041    |  | 0.071     | 0.02399    | 1.08       | 0    |  |  |
| 18     | F080124                  |    | 1.027                  | 0.1212     |  | 0.4521    | 0.1166     | 3.775      | 0    |  |  |
| 19     | F080125                  |    | 0.5121                 | 1.01       |  | 0.2287    | 0.04493    | 2.533      | 0    |  |  |
| 20     | F080126                  |    | 0.419                  | 0.04034    |  | 0.07983   | 0.0173     | 1.91       | 0    |  |  |
| 21     | F080127                  |    | 0.582                  | 0.2691     |  | 0.1329    | 0.02642    | 2.168      | 0    |  |  |
| 22     | F080127 Dup              |    | 0.419                  | 0.1212     |  | 0.1189    | 0.02379    | 1.886      | 0    |  |  |
| 23     | F080127 MS               |    | 0.003074               | 0.1344     |  | 0.001178  | 0.00199    | 0.01647    | 0    |  |  |
| 24     | LFB                      |    | 0.005008               | 0.0288     |  | 0.001027  | 0.001886   | 0.002761   | 1    |  |  |
| 25     | Blank                    |    | 4.365                  | 0.1008     |  | 1.006     | 0.09909    | 2.868      | 0    |  |  |
| 26     | Trace 0.1 ppm            |    | 0.1018                 | 0.1017     |  | 0.1067    | 0.09938    | 0.1026     | 100  |  |  |
| 27     | Nd, I 0.1 ppm            |    | 0.001034               | 0.00003362 |  | ND        | 0.00002107 | 0.0002083  | 98   |  |  |
| 28     | Std 4C                   |    | 0.0001869              | ND         |  | 0.003105  | 0.00007419 | 0.0004787  | 99   |  |  |
| 29     | Blank                    |    | 1.722                  | 0.1121     |  | 0.1439    | 0.01056    | 0.8409     | 0    |  |  |
| 30     | CB                       |    | ND                     | ND         |  | ND        | ND         | ND         | 102  |  |  |
| 31     | CB                       |    | ND                     | ND         |  | ND        | ND         | ND         | 102  |  |  |
| 32     | CB                       |    | ND                     | ND         |  | ND        | ND         | ND         | 103  |  |  |
| 33     | Blank                    |    | ND                     | ND         |  | ND        | ND         | ND         | 106  |  |  |
| 34     | Blank                    |    | ND                     | ND         |  | ND        | ND         | ND         | 106  |  |  |
| 35     | SN Chunk 080911          |    | 0.001272               | 0.004642   |  | ND        | 0.0001308  | 0.001104   | 101  |  |  |
| 36     | LFB                      |    | ND                     | ND         |  | 0.0009544 | ND         | 0.0001083  | 107  |  |  |
| 37     | CB                       |    | ND                     | ND         |  | ND        | ND         | ND         | 102  |  |  |
| 38     | Std 4C                   |    | ND                     | ND         |  | 0.0002909 | ND         | ND         | 102  |  |  |
| 39     | Trace 0.01 (1:10 of 0.1) |    | 0.08749                | 0.1004     |  | 0.06632   | 0.1007     | 0.08933    | 10   |  |  |
| 40     | CB                       |    | ND                     | ND         |  | ND        | ND         | ND         | 98   |  |  |
| 41     | SN Chunk 080911          |    | ND                     | 0.000047   |  | ND        | ND         | ND         | 101  |  |  |
| 42     | CB                       |    | ND                     | ND         |  | ND        | ND         | ND         | 100  |  |  |
| 43     | Std 4C                   |    | ND                     | ND         |  | 0.0001443 | ND         | ND         | 112  |  |  |

| MULTI  | goto                     |    |            | Solution Concentration |  |  |      |
|--------|--------------------------|----|------------|------------------------|--|--|------|
| RPT1   | RPT2                     | M8 | 900        |                        |  |  | 1150 |
|        | QC1                      |    | Zr         |                        |  |  | In   |
| 0632db | SAMPLE                   |    | 90 [116]   |                        |  |  | 115  |
| 1      | CB                       |    | 0.125      |                        |  |  | 0    |
| 2      | CB                       |    | 1.907      |                        |  |  | 0    |
| 3      | Trace 0.1 ppm            |    | 0.1        |                        |  |  | 98   |
| 4      | Std 4C                   |    | 0.0004189  |                        |  |  | 104  |
| 5      | Std 5C                   |    | 0.0007832  |                        |  |  | 111  |
| 6      | Std 6C                   |    | 0.0005117  |                        |  |  | 107  |
| 7      | T169                     |    | 0.0001878  |                        |  |  | 99   |
| 8      | Nd, I 0.1 ppm            |    | 0.000304   |                        |  |  | 98   |
| 9      | Trace 0.01 (1:10 of 0.1) |    | 0.09957    |                        |  |  | 11   |
| 10     | CB                       |    | 1.553      |                        |  |  | 0    |
| 11     | CB                       |    | 2.783      |                        |  |  | 0    |
| 12     | Blank                    |    | 0.3814     |                        |  |  | 0    |
| 13     | Blank                    |    | 0.4909     |                        |  |  | 0    |
| 14     | Blank                    |    | 0.6361     |                        |  |  | 0    |
| 15     | F080123                  |    | 3.352      |                        |  |  | 0    |
| 16     | F080124                  |    | 3.066      |                        |  |  | 0    |
| 17     | F080123                  |    | 3.352      |                        |  |  | 0    |
| 18     | F080124                  |    | 2.551      |                        |  |  | 0    |
| 19     | F080125                  |    | 10.15      |                        |  |  | 0    |
| 20     | F080126                  |    | 0.9812     |                        |  |  | 0    |
| 21     | F080127                  |    | 1.852      |                        |  |  | 0    |
| 22     | F080127 Dup              |    | 0.9159     |                        |  |  | 0    |
| 23     | F080127 MS               |    | 2.561      |                        |  |  | 0    |
| 24     | LFB                      |    | 0.4203     |                        |  |  | 0    |
| 25     | Blank                    |    | 0.1226     |                        |  |  | 0    |
| 26     | Trace 0.1 ppm            |    | 0.1027     |                        |  |  | 98   |
| 27     | Nd, I 0.1 ppm            |    | 0.0002662  |                        |  |  | 98   |
| 28     | Std 4C                   |    | 0.0005295  |                        |  |  | 98   |
| 29     | Blank                    |    | 0.03628    |                        |  |  | 0    |
| 30     | CB                       |    | ND         |                        |  |  | 105  |
| 31     | CB                       |    | ND         |                        |  |  | 104  |
| 32     | CB                       |    | ND         |                        |  |  | 105  |
| 33     | Blank                    |    | 0.0001298  |                        |  |  | 111  |
| 34     | Blank                    |    | 0.00009488 |                        |  |  | 110  |
| 35     | SN Chunk 080911          |    | 0.002545   |                        |  |  | 103  |
| 36     | LFB                      |    | ND         |                        |  |  | 104  |
| 37     | CB                       |    | ND         |                        |  |  | 104  |
| 38     | Std 4C                   |    | 0.0003617  |                        |  |  | 101  |
| 39     | Trace 0.01 (1:10 of 0.1) |    | 0.09995    |                        |  |  | 10   |
| 40     | CB                       |    | ND         |                        |  |  | 95   |
| 41     | SN Chunk 080911          |    | ND         |                        |  |  | 96   |
| 42     | CB                       |    | ND         |                        |  |  | 96   |
| 43     | Std 4C                   |    | 0.0004539  |                        |  |  | 102  |

|        |      |   |                  |                 |                   |          |                 |
|--------|------|---|------------------|-----------------|-------------------|----------|-----------------|
|        | RPT2 | Client:   | A&S Research Inc |                 | Lab ID:           | 0632db35 |                 |
|        |      | Job Number:   | 110609           |                 |                   |          |                 |
|        |      | Trace Impurities by SOP 7040, Rev 9                     |                  |                 |                   |          |                 |
|        |      | Inductively Coupled Plasma - Mass Spectrometry          |                  |                 |                   |          |                 |
|        |      | Sample ID:  | SN Chunk 080911  |                 |                   |          |                 |
| codes: |      |   | ppm              | Detection Limit |                   | ppm      | Detection Limit |
|        |      |   | -----            | -----           |                   | -----    | -----           |
| 270    | 970  | Aluminum  | 260              | 30              | Molybdenum        | 9.3      | 0.05            |
| 1210   | 1460 | Antimony  | 0.37             | 0.2             | Neodymium         | 0.39     | 0.02            |
| 751    | 600  | Arsenic   | 17               | 0.4             | Nickel <i>nil</i> | 42000    | 0.1             |
| 1350   | 930  | Barium  | 96               | 0.1             | Niobium           | 0.37     | 0.1             |
| 790    | 1890 | Beryllium   | ND               | 0.05            | Osmium            | 2.2      | 0.09            |
| 2090   | 1080 | Bismuth   | ND               | 0.03            | Palladium         | 3.3      | 0.02            |
| 110    | 310  | Boron   | 15               | 3               | Phosphorus        | 1600     | 10              |
| 810    | 1950 | Bromine   | ND               | 5               | Platinum          | 10       | 0.02            |
| 1110   | 390  | Cadmium   | ND               | 0.09            | Potassium         | ND       | 50              |
| 460    | 1410 | Calcium   | 1500             | 30              | Praseodymium      | 0.11     | 0.02            |
| 1400   | 1870 | Cerium  | 0.85             | 0.03            | Rhenium           | 0.66     | 0.02            |
| 1330   | 1030 | Cesium  | ND               | 0.02            | Rhodium           | 2.8      | 0.02            |
| 520    | 850  | Chromium  | 13               | 0.2             | Rubidium          | 0.15     | 0.02            |
| 590    | 1010 | Cobalt <i>nil</i>                                       | 1900             | 0.09            | Ruthenium         | 8.0      | 0.02            |
| 650    | 1470 | Copper  | 170              | 0.3             | Samarium          | 0.13     | 0.02            |
| 1630   | 820  | Dysprosium  | 0.11             | 0.02            | Selenium          | 2.5      | 1               |
| 1660   | 280  | Erbium  | 0.07             | 0.02            | Silicon           | 2700     | 50              |
| 1530   | 1090 | Europium  | 0.03             | 0.02            | Silver            | ND       | 0.02            |
| 1570   | 230  | Gadolinium  | 0.13             | 0.02            | Sodium            | 230      | 10              |
| 710    | 880  | Gallium   | 130              | 0.02            | Strontium         | 10       | 0.2             |
| 730    | 1310 | Germanium   | 300              | 0.1             | Tantalum          | ND       | 0.07            |
| 1970   | 1280 | Gold  | 0.90             | 0.09            | Tellurium         | ND       | 0.1             |
| 1730   | 2030 | Hafnium   | 0.10             | 0.02            | Thallium          | ND       | 0.2             |
| 1650   | 2320 | Holmium   | ND               | 0.02            | Thorium           | 0.23     | 0.02            |
| 1270   | 1690 | Iodine  | ND               | 0.9             | Thulium           | ND       | 0.02            |
| 1930   | 1180 | Iridium <i>nil</i>                                      | 3.6              | 0.05            | Tin               | 6.5      | 0.1             |
| 560    | 490  | Iron  | 430000           | 4               | Titanium          | 20       | 0.3             |
| 1390   | 1820 | Lanthanum   | ND               | 1               | Tungsten          | 1.9      | 0.07            |
| 2081   | 2380 | Lead  | 1.3              | 0.1             | Uranium           | 0.21     | 0.02            |
| 170    | 510  | Lithium   | ND               | 1               | Vanadium          | 21       | 1               |
| 1750   | 1720 | Lutetium  | ND               | 0.5             | Ytterbium         | 0.05     | 0.02            |
| 261    | 890  | Magnesium   | 890              | 5               | Yttrium           | 0.88     | 0.4             |
| 550    | 660  | Manganese   | 62               | 0.1             | Zinc              | 44       | 2               |
| 2010   | 900  | Mercury   | ND               | 0.1             | Zirconium         | 4.4      | 0.3             |
|        |      | Date Analyzed:  | 11-26-08         |                 |                   |          |                 |
|        |      | Elements Not Analyzed: All Gases, C, S, Sc, In, Tb      |                  |                 |                   |          |                 |
|        |      | ND - Not Detected. The detection limit is listed above. |                  |                 |                   |          |                 |

*A*

| TRACE        |         |                 |           |            |            | INTERNAL STANDARDS |         | Control Limits |   |  |
|--------------|---------|-----------------|-----------|------------|------------|--------------------|---------|----------------|---|--|
|              |         |                 |           |            |            | mass               | % Rec   | 50-125         |   |  |
| Calib Blank  | CB      | 32              |           | goto       | IS1        | 115                | 103     |                |   |  |
| Cali Std     | STD     | 0               |           | RPT2       | IS2        | 115                | 103     |                |   |  |
| Smp Blk      | SMPBLK  | 34              |           | QC1        | IS3        | 115                | 103     |                |   |  |
| Sample       | SMP     | 35              |           | M8         | IS4        | 159                | 101     |                |   |  |
| Sample Name: |         | SN Chunk 080911 |           |            | Diln Fact  | 1724.13793         | MinDL   | 0.00001        |   |  |
| Job Number:  |         | 110609          |           |            | Run ID     | 0632db             | STD_A   | 3              |   |  |
|              |         |                 |           |            |            |                    | STD_B   | 4              |   |  |
|              |         | SOLUTION        |           |            | Exceeds    | SAMPLE             | BLK EQV | STD_C          | 8 |  |
| code         |         | (PPM)           | CONC      | Callb      | (PPM)      | CONC               | STD_D   | 0              |   |  |
| 270          | Al      | 27 [115]        | 0.1524    | 0.018      | 260        | 30                 | STD_E   | 0              |   |  |
| 1210         | Sb      | 121 [115]       | 0.0002136 | 0.0001     | 0.37       | 0.2                | STD_F   | 0              |   |  |
| 1230         | Sb      | 123 [115]       | 0.0002462 | 0.00009    | 0.42       | 0.2                | STD_G   | 0              |   |  |
| 750          | As      | 75 [115]        | 0.01003   | 0.00024    | 17         | 0.4                | STD_H   | 0              |   |  |
| 751          | As corr | 75 [115]        | 0.01003   | 0.00024    | 17         | 0.4                | STD_I   | 0              |   |  |
| 1350         | Ba      | 135 [159]       | 0.05566   | 0.00007    | 96         | 0.1                |         |                |   |  |
| 1380         | Ba      | 138 [159]       | 0.05595   | 0.00007    | 96         | 0.1                |         |                |   |  |
| 90           | Be      | 9 [115]         | ND        | 0.00003    | ND         | 0.05               |         |                |   |  |
| 2090         | Bi      | 209 [159]       | ND        | 0.00002    | ND         | 0.03               |         |                |   |  |
| 100          | B       | 10 [115]        | 0.01024   | 0.0019     | 18         | 3                  |         |                |   |  |
| 110          | B       | 11 [115]        | 0.008636  | 0.0018     | 15         | 3                  |         |                |   |  |
| 1110         | Cd      | 111 [115]       | ND        | 0.00005    | ND         | 0.09               |         |                |   |  |
| 1140         | Cd      | 114 [115]       | 0.0001072 | 0.00004    | 0.18       | 0.07               |         |                |   |  |
| 430          | Ca      | 43 [115]        | 0.893     | 0.018      | 1500       | 30                 |         |                |   |  |
| 440          | Ca      | 44 [115]        | 1.007     | 0.05       | 1700       | 90                 |         |                |   |  |
| 520          | Cr      | 52 [115]        | 0.007681  | 0.00009    | 13         | 0.2                |         |                |   |  |
| 530          | Cr      | 53 [115]        | 0.006216  | 0.0018     | 11         | 3                  |         |                |   |  |
| 590          | Co      | 59 [115]        | 1.104     | 0.00005    | 1.104 **** | 1900               | 0.09    |                |   |  |
| 630          | Cu      | 63 [115]        | 0.0954    | 0.00019    | 160        | 0.3                |         |                |   |  |
| 650          | Cu      | 65 [115]        | 0.09637   | 0.00016    | 170        | 0.3                |         |                |   |  |
| 1970         | Au      | 197 [159]       | 0.0005214 | 0.00005    | 0.9        | 0.09               |         |                |   |  |
| 540          | Fe+Cr   | 54 [115]        | 239.6     | 0.003      | 2.396 **** | 410000             | 5       |                |   |  |
| 560          | Fe      | 56 [115]        | 248.9     | 0.0026     | 2.489 **** | 430000             | 4       |                |   |  |
| 570          | Fe      | 57 [115]        | 261       | 0.0029     | 2.61 ****  | 450000             | 5       |                |   |  |
| 2040         | Pb      | 204 [159]       | ND        | 1.1        | ND         | 2000               |         |                |   |  |
| 2081         | Pb      | 206-8 [159]     | 0.0007687 | 0.00008333 | 1.3        | 0.1                |         |                |   |  |
| 70           | Li      | 7 [115]         | ND        | 0.0007     | ND         | 1                  |         |                |   |  |
| 240          | Mg      | 24 [115]        | 0.507     | 0.003      | 870        | 5                  |         |                |   |  |
| 261          | Mg      | 25-6 [115]      | 0.5149    | 0.00265    | 890        | 5                  |         |                |   |  |
| 550          | Mn      | 55 [115]        | 0.03597   | 0.00007    | 62         | 0.1                |         |                |   |  |
| 2000         | Hg      | 200 [159]       | ND        | 0.00007    | ND         | 0.1                |         |                |   |  |
| 2010         | Hg      | 201 [159]       | ND        | 0.00006    | ND         | 0.1                |         |                |   |  |
| 2020         | Hg      | 202 [159]       | ND        | 0.00007    | ND         | 0.1                |         |                |   |  |
| 950          | Mo      | 95 [115]        | 0.005425  | 0.00004    | 9.4        | 0.07               |         |                |   |  |
| 970          | Mo      | 97 [115]        | 0.005365  | 0.000031   | 9.3        | 0.05               |         |                |   |  |
| 580          | Ni      | 58 [115]        | 20.15     | 0.00004    | 20.15 **** | 35000              | 0.07    |                |   |  |
| 600          | Ni      | 60 [115]        | 24.23     | 0.00006    | 24.23 **** | 42000              | 0.1     |                |   |  |
| 770          | Se      | 77 [115]        | ND        | 0.0025     | ND         | 4                  |         |                |   |  |
| 620          | Ni      | 62 [115]        | 24.79     | 0.00008    | 24.79 **** | 43000              | 0.1     |                |   |  |
| 310          | P       | 31 [115]        | 0.9384    | 0.008      | 1600       | 10                 |         |                |   |  |
| 1950         | Pt      | 195 [159]       | 0.00582   | 0.00001    | 10         | 0.02               |         |                |   |  |
| 1960         | Pt      | 196 [159]       | 0.005753  | 0.000013   | 9.9        | 0.02               |         |                |   |  |
| 390          | K       | 39 [115]        | ND        | 0.031      | ND         | 50                 |         |                |   |  |
| 780          | Se      | 78 [115]        | ND        | 0.0015     | ND         | 3                  |         |                |   |  |
| 820          | Se      | 82 [115]        | 0.001425  | 0.0006     | 2.5        | 1                  |         |                |   |  |
| 280          | Si      | 28 [115]        | 1.545     | 0.029      | 2700       | 50                 |         |                |   |  |
| 1070         | Ag      | 107 [115]       | ND        | 0.00001    | ND         | 0.02               |         |                |   |  |
| 1090         | Ag      | 109 [115]       | ND        | 0.00001    | ND         | 0.02               |         |                |   |  |
| 230          | Na      | 23 [115]        | 0.1343    | 0.008      | 230        | 10                 |         |                |   |  |
| 880          | Sr      | 88 [115]        | 0.005895  | 0.00012    | 10         | 0.2                |         |                |   |  |
| 2030         | Tl      | 203 [159]       | ND        | 0.0001     | ND         | 0.2                |         |                |   |  |
| 2050         | Tl      | 205 [159]       | ND        | 0.00009    | ND         | 0.2                |         |                |   |  |
| 1170         | Sn      | 117 [115]       | 0.003851  | 0.00009    | 6.6        | 0.2                |         |                |   |  |
| 1180         | Sn      | 118 [115]       | 0.003782  | 0.00006    | 6.5        | 0.1                |         |                |   |  |

|      |        |           |           |         |      |      |      |      |  |  |
|------|--------|-----------|-----------|---------|------|------|------|------|--|--|
| 470  | Ti     | 47 [115]  | 0.01116   | 0.00007 |      |      | 19   | 0.1  |  |  |
| 490  | Ti     | 49 [115]  | 0.01149   | 0.00019 |      |      | 20   | 0.3  |  |  |
| 1820 | W      | 182 [159] | 0.001104  | 0.00004 |      |      | 1.9  | 0.07 |  |  |
| 1860 | W      | 183 [159] | 0.00113   | 0.00004 |      |      | 1.9  | 0.07 |  |  |
| 2350 | U      | 235 [159] |           |         |      |      |      |      |  |  |
| 2380 | U      | 238 [159] | 0.0001208 | 0.00001 |      |      | 0.21 | 0.02 |  |  |
| 510  | V      | 51 [115]  | 0.01227   | 0.0007  |      |      | 21   | 1    |  |  |
| 511  | V corr | 51 [115]  | 0.01227   | 0.0007  |      |      | 21   | 1    |  |  |
| 640  | Zn     | 64 [115]  | 2.21      | 0.0012  | 2.21 | **** | 3800 | 2    |  |  |
| 660  | Zn     | 66 [115]  | 0.02565   | 0.0014  |      |      | 44   | 2    |  |  |
| 680  | Zn     | 68 [115]  | 0.02859   | 0.0011  |      |      | 49   | 2    |  |  |

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|        |      |   |                             |           |         |              |       |      |
|--------|------|---|-----------------------------|-----------|---------|--------------|-------|------|
|        | RPT2 | Client:   | A&S Research Inc            |           | Lab ID: | 0632db41     |       |      |
|        |      | Job Number:   | 110609                      |           |         |              |       |      |
|        |      | Trace Impurities by SOP 7040, Rev 9                     |                             |           |         |              |       |      |
|        |      | Inductively Coupled Plasma - Mass Spectrometry          |                             |           |         |              |       |      |
|        |      | Sample ID:  | SN Chunk 080911             |           |         |              |       |      |
|        |      |   |                             |           |         |              |       |      |
| codes: |      |   |                             | Detection |         | Detection    |       |      |
|        |      |   | ppm                         | Limit     |         | ppm          |       |      |
|        |      |   | -----                       | -----     |         | -----        |       |      |
|        | 270  | 970   | Aluminum                    | ND        | 3000    | Molybdenum   | ND    | 5    |
|        | 1210 | 1460  | Antimony                    | ND        | 20      | Neodymium    | ND    | 2    |
|        | 751  | 600   | Arsenic                     | ND        | 40      | Nickel       | 52000 | 10   |
|        | 1350 | 930   | Barium                      | 88        | 10      | Niobium      | ND    | 10   |
|        | 90   | 1890  | Beryllium                   | ND        | 5       | Osmium       | ND    | 9    |
|        | 2090 | 1080  | Bismuth                     | ND        | 3       | Palladium    | 3     | 2    |
|        | 110  | 310   | Boron                       | ND        | 300     | Phosphorus   | 2400  | 1000 |
|        | 810  | 1950  | Bromine                     | ND        | 500     | Platinum     | 9     | 2    |
|        | 1110 | 390   | Cadmium                     | ND        | 9       | Potassium    | ND    | 5000 |
|        | 430  | 1410  | Calcium                     | ND        | 3000    | Praseodymium | ND    | 2    |
|        | 1400 | 1870  | Cerium                      | ND        | 3       | Rhenium      | ND    | 2    |
|        | 1830 | 1030  | Cesium                      | ND        | 2       | Rhodium      | ND    | 2    |
|        | 520  | 850   | Chromium                    | ND        | 20      | Rubidium     | ND    | 2    |
|        | 590  | 1010  | Cobalt                      | 2200      | 9       | Ruthenium    | 8     | 2    |
|        | 650  | 1470  | Copper                      | 510       | 30      | Samarium     | ND    | 2    |
|        | 1630 | 820   | Dysprosium                  | ND        | 2       | Selenium     | ND    | 100  |
|        | 1660 | 280   | Erbium                      | ND        | 2       | Silicon      | ND    | 5000 |
|        | 1530 | 1090  | Europium                    | ND        | 2       | Silver       | ND    | 2    |
|        | 1570 | 280   | Gadolinium                  | ND        | 2       | Sodium       | 2100  | 1000 |
|        | 710  | 880   | Gallium                     | 120       | 2       | Strontium    | ND    | 20   |
|        | 730  | 1810  | Germanium                   | 320       | 10      | Tantalum     | ND    | 7    |
|        | 1970 | 1280  | Gold                        | ND        | 9       | Tellurium    | ND    | 10   |
|        | 1780 | 2030  | Hafnium                     | ND        | 2       | Thallium     | ND    | 20   |
|        | 1650 | 2320  | Holmium                     | ND        | 2       | Thorium      | ND    | 2    |
|        | 1270 | 1690  | Iodine                      | ND        | 90      | Thulium      | ND    | 2    |
|        | 1930 | 1180  | Iridium                     | ND        | 5       | Tin          | ND    | 10   |
|        | 560  | 490   | Iron                        | 460000    | 400     | Titanium     | ND    | 30   |
|        | 1390 | 1820  | Lanthanum                   | ND        | 100     | Tungsten     | ND    | 7    |
|        | 2081 | 2880  | Lead                        | ND        | 10      | Uranium      | ND    | 2    |
|        | 70   | 510   | Lithium                     | ND        | 100     | Vanadium     | ND    | 100  |
|        | 1750 | 1720  | Lutetium                    | ND        | 50      | Ytterbium    | ND    | 2    |
|        | 261  | 890   | Magnesium                   | 860       | 500     | Yttrium      | ND    | 40   |
|        | 550  | 660   | Manganese                   | 52        | 10      | Zinc         | ND    | 200  |
|        | 2010 | 900   | Mercury                     | ND        | 10      | Zirconium    | ND    | 30   |
|        |      |   |                             |           |         |              |       |      |
|        |      | Date Analyzed:  | 11-26-08                    |           |         |              |       |      |
|        |      | Elements Not Analyzed:                                  | All Gases, C, S, Sc, In, Tb |           |         |              |       |      |
|        |      | ND - Not Detected. The detection limit is listed above. |                             |           |         |              |       |      |

1.100

| TRACE        |         |                 |            | INTERNAL STANDARDS |           |            |       | Control Limits |
|--------------|---------|-----------------|------------|--------------------|-----------|------------|-------|----------------|
|              |         |                 |            |                    |           | mass       | % Rec | 50-125         |
| Calib Blank  | CB      | 32              |            | goto               | IS1       | 115        | 96    |                |
| Cal Std      | STD     | 0               |            | RPT2               | IS2       | 115        | 96    |                |
| Smp Blk      | SMPBLK  | 34              |            | QC1                | IS3       | 115        | 96    |                |
| Sample       | SMP     | 41              |            | M8                 | IS4       | 159        | 101   |                |
| Sample Name: |         | SN:Chunk 080911 |            |                    | Diln Fact | 172413.793 | MinDL | 0.00001        |
| Job Number:  |         | 110609          |            |                    | Run ID    | 0632db     | STD_A | 3              |
|              |         |                 |            |                    |           |            | STD_B | 4              |
|              |         |                 |            |                    |           |            | STD_C | 8              |
| code         |         | SOLUTION        | BLK EQV    | Exceeds            | SAMPLE    | BLK EQV    | STD_D | 0              |
|              |         | (PPM)           | CONC       | Calib              | (PPM)     | CONC       | STD_E | 0              |
| 270          | Al      | 27 [115]        | ND         |                    | ND        | 3000       | STD_F | 0              |
| 1210         | Sb      | 121 [115]       | ND         |                    | ND        | 20         | STD_G | 0              |
| 1230         | Sb      | 123 [115]       | ND         |                    | ND        | 20         | STD_H | 0              |
| 750          | As      | 75 [115]        | ND         |                    | ND        | 40         | STD_I | 0              |
| 751          | As corr | 75 [115]        | ND         |                    | ND        | 40         |       | 0              |
| 1360         | Ba      | 135 [159]       | 0.000513   |                    | 88        | 10         |       |                |
| 1380         | Ba      | 138 [159]       | 0.0005663  |                    | 98        | 10         |       |                |
| 90           | Be      | 9 [115]         | ND         |                    | ND        | 5          |       |                |
| 2090         | Bi      | 209 [159]       | ND         |                    | ND        | 3          |       |                |
| 100          | B       | 10 [115]        | ND         |                    | ND        | 300        |       |                |
| 110          | B       | 11 [115]        | ND         |                    | ND        | 300        |       |                |
| 110          | Cd      | 111 [115]       | ND         |                    | ND        | 9          |       |                |
| 1140         | Cd      | 114 [115]       | ND         |                    | ND        | 7          |       |                |
| 430          | Ca      | 43 [115]        | ND         |                    | ND        | 3000       |       |                |
| 440          | Ca      | 44 [115]        | ND         |                    | ND        | 9000       |       |                |
| 520          | Cr      | 52 [115]        | ND         |                    | ND        | 20         |       |                |
| 530          | Cr      | 53 [115]        | ND         |                    | ND        | 300        |       |                |
| 590          | Co      | 59 [115]        | 0.01247    |                    | 2200      | 9          |       |                |
| 630          | Cu      | 63 [115]        | 0.002857   |                    | 490       | 30         |       |                |
| 650          | Cu      | 65 [115]        | 0.002946   |                    | 510       | 30         |       |                |
| 1970         | Au      | 197 [159]       | ND         |                    | ND        | 9          |       |                |
| 540          | Fe+Cr   | 54 [115]        | 2.746      |                    | 470000    | 500        |       |                |
| 560          | Fe      | 56 [115]        | 2.687      |                    | 460000    | 400        |       |                |
| 570          | Fe      | 57 [115]        | 2.767      |                    | 480000    | 500        |       |                |
| 2040         | Pb      | 204 [159]       | ND         |                    | ND        | 200000     |       |                |
| 2081         | Pb      | 206-8 [159]     | ND         |                    | ND        | 10         |       |                |
| 70           | Li      | 7 [115]         | ND         |                    | ND        | 100        |       |                |
| 240          | Mg      | 24 [115]        | 0.006066   |                    | 1000      | 500        |       |                |
| 261          | Mg      | 25-6 [115]      | 0.004998   |                    | 860       | 500        |       |                |
| 550          | Mn      | 55 [115]        | 0.0003005  |                    | 52        | 10         |       |                |
| 2000         | Hg      | 200 [159]       | ND         |                    | ND        | 10         |       |                |
| 2010         | Hg      | 201 [159]       | ND         |                    | ND        | 10         |       |                |
| 2020         | Hg      | 202 [159]       | ND         |                    | ND        | 10         |       |                |
| 950          | Mo      | 95 [115]        | ND         |                    | ND        | 7          |       |                |
| 970          | Mo      | 97 [115]        | ND         |                    | ND        | 5          |       |                |
| 580          | Ni      | 58 [115]        | 0.2453     |                    | 42000     | 7          |       |                |
| 600          | Ni      | 60 [115]        | 0.3008     |                    | 52000     | 10         |       |                |
| 770          | Se      | 77 [115]        | ND         |                    | ND        | 400        |       |                |
| 620          | Ni      | 62 [115]        | 0.3038     |                    | 52000     | 10         |       |                |
| 310          | P       | 31 [115]        | 0.01388    |                    | 2400      | 1000       |       |                |
| 1950         | Pt      | 195 [159]       | 0.00005336 |                    | 9         | 2          |       |                |
| 1960         | Pt      | 196 [159]       | 0.00005545 |                    | 10        | 2          |       |                |
| 390          | K       | 39 [115]        | ND         |                    | ND        | 5000       |       |                |
| 780          | Se      | 78 [115]        | ND         |                    | ND        | 300        |       |                |
| 820          | Se      | 82 [115]        | ND         |                    | ND        | 100        |       |                |
| 280          | Si      | 28 [115]        | ND         |                    | ND        | 5000       |       |                |
| 1070         | Ag      | 107 [115]       | ND         |                    | ND        | 2          |       |                |
| 1090         | Ag      | 109 [115]       | ND         |                    | ND        | 2          |       |                |
| 230          | Na      | 23 [115]        | 0.01189    |                    | 2100      | 1000       |       |                |
| 880          | Sr      | 88 [115]        | ND         |                    | ND        | 20         |       |                |
| 2030         | Tl      | 203 [159]       | ND         |                    | ND        | 20         |       |                |
| 2050         | Tl      | 205 [159]       | ND         |                    | ND        | 20         |       |                |
| 1170         | Sn      | 117 [115]       | ND         |                    | ND        | 20         |       |                |
| 1180         | Sn      | 118 [115]       | ND         |                    | ND        | 10         |       |                |

|      |        |           |           |         |  |      |     |  |  |
|------|--------|-----------|-----------|---------|--|------|-----|--|--|
| 470  | Ti     | 47 [115]  | 0.0002354 | 0.00007 |  | 41   | 10  |  |  |
| 490  | Ti     | 49 [115]  | ND        | 0.00019 |  | ND   | 30  |  |  |
| 1820 | W      | 182 [159] | ND        | 0.00004 |  | ND   | 7   |  |  |
| 1830 | W      | 183 [159] | ND        | 0.00004 |  | ND   | 7   |  |  |
| 2350 | U      | 235 [159] |           |         |  |      |     |  |  |
| 2380 | U      | 238 [159] | ND        | 0.00001 |  | ND   | 2   |  |  |
| 510  | V      | 51 [115]  | ND        | 0.0007  |  | ND   | 100 |  |  |
| 511  | V corr | 51 [115]  | ND        | 0.0007  |  | ND   | 100 |  |  |
| 640  | Zn     | 64 [115]  | 0.02687   | 0.0012  |  | 4600 | 200 |  |  |
| 660  | Zn     | 66 [115]  | ND        | 0.0014  |  | ND   | 200 |  |  |
| 680  | Zn     | 68 [115]  | ND        | 0.0011  |  | ND   | 200 |  |  |

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| Client:                  | A&S Research Inc |                  |                |            |            |              |             |                  |                 |           |
|--------------------------|------------------|------------------|----------------|------------|------------|--------------|-------------|------------------|-----------------|-----------|
| Job Number:              | 110609           |                  |                |            |            |              |             |                  |                 |           |
| Quality Control Summary  |                  |                  |                |            |            |              |             |                  |                 |           |
| Sample:                  | Blank            |                  |                |            |            |              |             |                  |                 |           |
| Sample File:             | 0632db34         |                  |                |            |            |              |             |                  |                 |           |
| Matrix:                  |                  |                  |                |            |            |              |             |                  |                 |           |
| Parts Per Million (µg/g) | 0                |                  |                |            |            |              |             |                  |                 |           |
|                          | Sample Result    | Duplicate Result | Average Result | Sample RPD | Spike Conc | Spike Result | Spike % Rec | Spike Dup Result | Spike Dup % Rec | Spike RPD |
| Aluminum                 | 28.2             |                  | 28.2           |            | 172        | 198          | 99          |                  |                 |           |
| Antimony                 | ND               |                  | ND             |            | 172        | 152          | 88          |                  |                 |           |
| Arsenic                  | ND               |                  | ND             |            | 172        | 142          | 83          |                  |                 |           |
| Barium                   | ND               |                  | ND             |            | 172        | 168          | 98          |                  |                 |           |
| Beryllium                | ND               |                  | ND             |            | 172        | 155          | 90          |                  |                 |           |
| Boron                    | 2.42             |                  | 2.42           |            | 172        | 155          | 89          |                  |                 |           |
| Cadmium                  | ND               |                  | ND             |            | 172        | 155          | 90          |                  |                 |           |
| Calcium                  | ND               |                  | ND             |            | 17200      | 17300        | 101         |                  |                 |           |
| Chromium                 | ND               |                  | ND             |            | 172        | 169          | 98          |                  |                 |           |
| Cobalt                   | ND               |                  | ND             |            | 172        | 168          | 98          |                  |                 |           |
| Copper                   | ND               |                  | ND             |            | 172        | 163          | 95          |                  |                 |           |
| Iron                     | ND               |                  | ND             |            | 17200      | 17100        | 99          |                  |                 |           |
| Lead                     | ND               |                  | ND             |            | 172        | 164          | 95          |                  |                 |           |
| Lithium                  | ND               |                  | ND             |            | 172        | 171          | 99          |                  |                 |           |
| Magnesium                | ND               |                  | ND             |            | 17200      | 17200        | 100         |                  |                 |           |
| Manganese                | ND               |                  | ND             |            | 172        | 170          | 99          |                  |                 |           |
| Mercury                  | 0.06             |                  | 0.06           |            | 17.2       | 15.9         | 92          |                  |                 |           |
| Molybdenum               | ND               |                  | ND             |            | 172        | 173          | 101         |                  |                 |           |
| Nickel                   | ND               |                  | ND             |            | 172        | 172          | 100         |                  |                 |           |
| Phosphorus               | ND               |                  | ND             |            | 17200      | 14900        | 87          |                  |                 |           |
| Potassium                | ND               |                  | ND             |            | 17200      | 17200        | 100         |                  |                 |           |
| Selenium                 | ND               |                  | ND             |            | 1720       | 1270         | 74          |                  |                 |           |
| Silicon                  | ND               |                  | ND             |            | 17200      | 15300        | 89          |                  |                 |           |
| Silver                   | ND               |                  | ND             |            | 172        | 167          | 97          |                  |                 |           |
| Sodium                   | ND               |                  | ND             |            | 17200      | 17200        | 100         |                  |                 |           |
| Strontium                | ND               |                  | ND             |            | 172        | 177          | 103         |                  |                 |           |
| Thallium                 | ND               |                  | ND             |            | 172        | 164          | 95          |                  |                 |           |
| Titanium                 | ND               |                  | ND             |            | 172        | 170          | 99          |                  |                 |           |
| Vanadium                 | ND               |                  | ND             |            | 172        | 168          | 98          |                  |                 |           |
| Zinc                     | 1.97             |                  | 1.97           |            | 172        | 143          | 82          |                  |                 |           |
| Date Analyze             | 11-26-08         |                  |                |            |            |              |             |                  |                 |           |

| TRACE        |         |             |            | INTERNAL STANDARDS |            |        |         | Control Limits |
|--------------|---------|-------------|------------|--------------------|------------|--------|---------|----------------|
|              |         |             |            |                    |            | mass   | % Rec   | 50-125         |
| Calib Blank  | CB      | 32          |            | goto               | IS1        | 115    | 104     |                |
| Cali Std     | STD     | 0           |            | RPT2               | IS2        | 115    | 104     |                |
| Smp Blk      | SMPBLK  | 34          |            | QC1                | IS3        | 115    | 104     |                |
| Sample       | SMP     | 36          |            | M8                 | IS4        | 159    | 107     |                |
| Sample Name: | LFB     |             |            | Diln Fact          | 1724.13793 | MinDL  | 0.00001 |                |
| Job Number:  | 110609  |             |            | Run ID             | 0632db     | STD_A  | 3       |                |
|              |         |             |            |                    |            | STD_B  | 4       |                |
|              |         |             | SOLUTION   | BLK EQV            | Exceeds    | SAMPLE | BLK EQV | STD_C          |
| code         |         |             | (PPM)      | CONC               | Callib     | (PPM)  | CONC    | STD_D          |
| 270          | Al      | 27 [115]    | 0.1149     | 0.018              |            | 198    | 30      | STD_E          |
| 1210         | Sb      | 121 [115]   | 0.08833    | 0.0001             |            | 152    | 0.2     | STD_F          |
| 1230         | Sb      | 123 [115]   | 0.08858    | 0.00009            |            | 153    | 0.2     | STD_G          |
| 750          | As      | 75 [115]    | 0.08242    | 0.00024            |            | 142    | 0.4     | STD_H          |
| 751          | As corr | 75 [115]    | 0.08242    | 0.00024            |            | 142    | 0.4     | STD_I          |
| 1350         | Ba      | 135 [159]   | 0.09739    | 0.00007            |            | 168    | 0.1     |                |
| 1380         | Ba      | 138 [159]   | 0.0968     | 0.00007            |            | 167    | 0.1     |                |
| 90           | Be      | 9 [115]     | 0.09012    | 0.00003            |            | 155    | 0.05    |                |
| 2090         | Bi      | 209 [159]   | 0.00004168 | 0.00002            |            | 0.07   | 0.03    |                |
| 100          | B       | 10 [115]    | 0.09946    | 0.0019             |            | 171    | 3       |                |
| 110          | B       | 11 [115]    | 0.08989    | 0.0018             |            | 155    | 3       |                |
| 110          | Cd      | 111 [115]   | 0.09009    | 0.00005            |            | 155    | 0.09    |                |
| 1140         | Cd      | 114 [115]   | 0.0867     | 0.00004            |            | 149    | 0.07    |                |
| 430          | Ca      | 43 [115]    | 10.03      | 0.018              |            | 17300  | 30      |                |
| 440          | Ca      | 44 [115]    | 10         | 0.05               |            | 17200  | 90      |                |
| 520          | Cr      | 52 [115]    | 0.09784    | 0.00009            |            | 169    | 0.2     |                |
| 530          | Cr      | 53 [115]    | 0.096      | 0.0018             |            | 166    | 3       |                |
| 590          | Co      | 59 [115]    | 0.0974     | 0.00005            |            | 168    | 0.09    |                |
| 630          | Cu      | 63 [115]    | 0.09342    | 0.00019            |            | 161    | 0.3     |                |
| 650          | Cu      | 65 [115]    | 0.09446    | 0.00016            |            | 163    | 0.3     |                |
| 1970         | Au      | 197 [159]   | ND         | 0.00005            |            | ND     | 0.09    |                |
| 540          | Fe+Cr   | 54 [115]    | 9.806      | 0.003              |            | 16900  | 5       |                |
| 560          | Fe      | 56 [115]    | 9.801      | 0.0026             |            | 16900  | 4       |                |
| 570          | Fe      | 57 [115]    | 9.939      | 0.0029             |            | 17100  | 5       |                |
| 2040         | Pb      | 204 [159]   | ND         | 1.1                |            | ND     | 2000    |                |
| 2080         | Pb      | 206-8 [159] | 0.09492    | 0.00008333         |            | 164    | 0.1     |                |
| 70           | Li      | 7 [115]     | 0.09946    | 0.0007             |            | 171    | 1       |                |
| 240          | Mg      | 24 [115]    | 9.815      | 0.003              |            | 16900  | 5       |                |
| 261          | Mg      | 25-6 [115]  | 9.98       | 0.00265            |            | 17200  | 5       |                |
| 550          | Mn      | 55 [115]    | 0.09838    | 0.00007            |            | 170    | 0.1     |                |
| 2000         | Hg      | 200 [159]   | 0.009263   | 0.00007            |            | 16     | 0.1     |                |
| 2010         | Hg      | 201 [159]   | 0.009215   | 0.00006            |            | 15.9   | 0.1     |                |
| 2020         | Hg      | 202 [159]   | 0.009239   | 0.00007            |            | 15.9   | 0.1     |                |
| 950          | Mo      | 95 [115]    | 0.1014     | 0.00004            |            | 175    | 0.07    |                |
| 970          | Mo      | 97 [115]    | 0.1005     | 0.000031           |            | 173    | 0.05    |                |
| 580          | Ni      | 58 [115]    | 0.09987    | 0.00004            |            | 172    | 0.07    |                |
| 600          | Ni      | 60 [115]    | 0.09966    | 0.00006            |            | 172    | 0.1     |                |
| 770          | Se      | 77 [115]    | 0.7463     | 0.0025             |            | 1290   | 4       |                |
| 620          | Ni      | 62 [115]    | 0.09944    | 0.00008            |            | 171    | 0.1     |                |
| 310          | P       | 31 [115]    | 8.666      | 0.008              |            | 14900  | 10      |                |
| 1950         | Pt      | 195 [159]   | ND         | 0.00001            |            | ND     | 0.02    |                |
| 1960         | Pt      | 196 [159]   | ND         | 0.000013           |            | ND     | 0.02    |                |
| 690          | K       | 39 [115]    | 9.993      | 0.031              |            | 17200  | 50      |                |
| 780          | Se      | 78 [115]    | 0.7297     | 0.0015             |            | 1260   | 3       |                |
| 820          | Se      | 82 [115]    | 0.7345     | 0.0006             |            | 1270   | 1       |                |
| 280          | Si      | 28 [115]    | 8.863      | 0.029              |            | 15300  | 50      |                |
| 1070         | Ag      | 107 [115]   | 0.09613    | 0.00001            |            | 166    | 0.02    |                |
| 1090         | Ag      | 109 [115]   | 0.0966     | 0.00001            |            | 167    | 0.02    |                |
| 230          | Na      | 23 [115]    | 9.978      | 0.008              |            | 17200  | 10      |                |
| 880          | Sr      | 88 [115]    | 0.1026     | 0.00012            |            | 177    | 0.2     |                |
| 2030         | Tl      | 203 [159]   | 0.09511    | 0.0001             |            | 164    | 0.2     |                |
| 2050         | Tl      | 205 [159]   | 0.09347    | 0.00009            |            | 161    | 0.2     |                |
| 1170         | Sn      | 117 [115]   | ND         | 0.00009            |            | ND     | 0.2     |                |
| 1180         | Sn      | 118 [115]   | ND         | 0.00006            |            | ND     | 0.1     |                |

|      |        |           |            |         |  |  |      |      |  |  |
|------|--------|-----------|------------|---------|--|--|------|------|--|--|
| 470  | Ti     | 47 [115]  | 0.09686    | 0.00007 |  |  | 167  | 0.1  |  |  |
| 490  | Ti     | 49 [115]  | 0.0987     | 0.00019 |  |  | 170  | 0.3  |  |  |
| 1820 | W      | 182 [159] | 0.0001083  | 0.00004 |  |  | 0.19 | 0.07 |  |  |
| 1830 | W      | 183 [159] | 0.00009486 | 0.00004 |  |  | 0.16 | 0.07 |  |  |
| 2350 | U      | 235 [159] |            |         |  |  |      |      |  |  |
| 2380 | U      | 238 [159] | ND         | 0.00001 |  |  | ND   | 0.02 |  |  |
| 510  | V      | 51 [115]  | 0.09772    | 0.0007  |  |  | 168  | 1    |  |  |
| 511  | V corr | 51 [115]  | 0.09483    | 0.0007  |  |  | 164  | 1    |  |  |
| 640  | Zn     | 64 [115]  | 0.08216    | 0.0012  |  |  | 142  | 2    |  |  |
| 660  | Zn     | 66 [115]  | 0.08268    | 0.0014  |  |  | 143  | 2    |  |  |
| 680  | Zn     | 68 [115]  | 0.08296    | 0.0011  |  |  | 143  | 2    |  |  |

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|        |      |                        |   |           |              |          |           |
|--------|------|------------------------|---|-----------|--------------|----------|-----------|
|        | RPT2 | Client:                | A&S Research Inc  |           | Lab ID:      | 0632db34 |           |
|        |      | Job Number:            | 110609  |           |              |          |           |
|        |      |                        |   |           |              |          |           |
|        |      |                        | Trace Impurities by SOP 7040, Rev 9                     |           |              |          |           |
|        |      |                        | Inductively Coupled Plasma - Mass Spectrometry          |           |              |          |           |
|        |      |                        |   |           |              |          |           |
|        |      | Sample ID:             | Blank   |           |              |          |           |
|        |      |                        |   |           |              |          |           |
| codes: |      |                        |   | Detection |              |          | Detection |
|        |      |                        | ppm   | Limit     |              | ppm      | Limit     |
|        |      |                        | -----   | -----     |              | -----    | -----     |
| 270    | 970  | Aluminum               | 28  | 3         | Molybdenum   | ND       | 0.05      |
| 1210   | 1460 | Antimony               | ND  | 0.2       | Neodymium    | ND       | 0.02      |
| 751    | 600  | Arsenic                | ND  | 0.4       | Nickel       | ND       | 0.1       |
| 1350   | 930  | Barium                 | ND  | 0.1       | Niobium      | ND       | 0.07      |
| 90     | 1890 | Beryllium              | ND  | 0.05      | Osmium       | ND       | 0.05      |
| 2090   | 1080 | Bismuth                | ND  | 0.02      | Palladium    | ND       | 0.02      |
| 110    | 310  | Boron                  | 2.4   | 0.7       | Phosphorus   | ND       | 9         |
| 810    | 1950 | Bromine                | ND  | 5         | Platinum     | ND       | 0.02      |
| 1110   | 390  | Cadmium                | ND  | 0.09      | Potassium    | ND       | 50        |
| 430    | 1410 | Calcium                | ND  | 30        | Praseodymium | ND       | 0.02      |
| 1400   | 1870 | Cerium                 | ND  | 0.02      | Rhenium      | ND       | 0.02      |
| 1330   | 1030 | Cesium                 | ND  | 0.02      | Rhodium      | ND       | 0.02      |
| 820    | 850  | Chromium               | ND  | 0.2       | Rubidium     | ND       | 0.02      |
| 590    | 1010 | Cobalt                 | ND  | 0.09      | Ruthenium    | ND       | 0.02      |
| 650    | 1470 | Copper                 | ND  | 0.2       | Samarium     | ND       | 0.02      |
| 1630   | 820  | Dysprosium             | ND  | 0.02      | Selenium     | ND       | 1         |
| 1660   | 280  | Erbium                 | ND  | 0.02      | Silicon      | ND       | 50        |
| 1630   | 1090 | Europium               | ND  | 0.02      | Silver       | ND       | 0.02      |
| 1570   | 230  | Gadolinium             | ND  | 0.02      | Sodium       | ND       | 10        |
| 710    | 380  | Gallium                | ND  | 0.02      | Strontium    | ND       | 0.09      |
| 730    | 1810 | Germanium              | ND  | 0.05      | Tantalum     | ND       | 0.05      |
| 1970   | 1230 | Gold                   | ND  | 0.09      | Tellurium    | ND       | 0.1       |
| 1780   | 2030 | Hafnium                | ND  | 0.02      | Thallium     | ND       | 0.2       |
| 1650   | 2320 | Holmium                | ND  | 0.02      | Thorium      | ND       | 0.02      |
| 1270   | 1690 | Iodine                 | ND  | 0.9       | Thulium      | ND       | 0.02      |
| 1930   | 1130 | Iridium                | 0.04  | 0.02      | Tin          | ND       | 0.1       |
| 570    | 490  | Iron                   | ND  | 5         | Titanium     | ND       | 0.3       |
| 1390   | 1820 | Lanthanum              | ND  | 1         | Tungsten     | ND       | 0.07      |
| 2081   | 2380 | Lead                   | ND  | 0.1       | Uranium      | ND       | 0.02      |
| 70     | 510  | Lithium                | ND  | 1         | Vanadium     | ND       | 1         |
| 1750   | 1720 | Lutetium               | ND  | 0.5       | Ytterbium    | ND       | 0.02      |
| 261    | 390  | Magnesium              | ND  | 4         | Yttrium      | 0.31     | 0.07      |
| 550    | 660  | Manganese              | ND  | 0.1       | Zinc         | 2.0      | 0.4       |
| 2010   | 900  | Mercury                | 0.06  | 0.04      | Zirconium    | 0.16     | 0.1       |
|        |      |                        |   |           |              |          |           |
|        |      | Date Analyzed:         | 11-26-08  |           |              |          |           |
|        |      | Elements Not Analyzed: | All Gases, C, S, Sc, In, Tb                             |           |              |          |           |
|        |      |                        | ND - Not Detected. The detection limit is listed above. |           |              |          |           |

| TRACE        |         |             |            | INTERNAL STANDARDS |           |            |         | Control Limits |   |
|--------------|---------|-------------|------------|--------------------|-----------|------------|---------|----------------|---|
|              |         |             |            |                    |           | mass       | % Rec   | 50-125         |   |
| Calib        | Blank   | CB          | 32         | goto               | IS1       | 115        | 110     |                |   |
| Cali         | Std     | STD         | 0          | RPT2               | IS2       | 115        | 110     |                |   |
| Smp          | Blk     | SMPBLK      | 32         | QC1                | IS3       | 115        | 110     |                |   |
| Sample       |         | SMP         | 34         | M8                 | IS4       | 159        | 106     |                |   |
| Sample Name: | Blank   |             |            |                    | Diln Fact | 1724.13793 | MinDL   | 0.00001        |   |
| Job Number:  | 110609  |             |            |                    | Run ID    | 0632db     | STD_A   | 3              |   |
|              |         |             |            |                    |           |            | STD_B   | 4              |   |
|              |         |             | SOLUTION   | BLK EQV            | Exceeds   | SAMPLE     | BLK EQV | STD_C          | 8 |
| code         |         |             | (PPM)      | CONC               | Calib     | (PPM)      | CONC    | STD_D          | 0 |
| 270          | Al      | 27 [115]    | 0.01634    | 0.0017             |           | 28.2       | 3       | STD_E          | 0 |
| 1210         | Sb      | 121 [115]   | ND         | 0.0001             |           | ND         | 0.2     | STD_F          | 0 |
| 1230         | Sb      | 123 [115]   | ND         | 0.00009            |           | ND         | 0.2     | STD_G          | 0 |
| 750          | As      | 75 [115]    | ND         | 0.00024            |           | ND         | 0.4     | STD_H          | 0 |
| 751          | As corr | 75 [115]    | ND         | 0.00024            |           | ND         | 0.4     | STD_I          | 0 |
| 1350         | Ba      | 135 [159]   | ND         | 0.00007            |           | ND         | 0.1     |                |   |
| 1380         | Ba      | 138 [159]   | ND         | 0.00005            |           | ND         | 0.09    |                |   |
| 90           | Be      | 9 [115]     | ND         | 0.00003            |           | ND         | 0.05    |                |   |
| 2090         | Bi      | 209 [159]   | ND         | 0.000014           |           | ND         | 0.02    |                |   |
| 100          | B       | 10 [115]    | 0.001203   | 0.0006             |           | 2.07       | 1       |                |   |
| 110          | B       | 11 [115]    | 0.001402   | 0.0004             |           | 2.42       | 0.7     |                |   |
| 1110         | Cd      | 111 [115]   | ND         | 0.00005            |           | ND         | 0.09    |                |   |
| 1140         | Cd      | 114 [115]   | ND         | 0.00004            |           | ND         | 0.07    |                |   |
| 430          | Ca      | 43 [115]    | ND         | 0.018              |           | ND         | 30      |                |   |
| 440          | Ca      | 44 [115]    | 0.0475     | 0.006              |           | 81.9       | 10      |                |   |
| 520          | Cr      | 52 [115]    | ND         | 0.00009            |           | ND         | 0.2     |                |   |
| 530          | Cr      | 53 [115]    | ND         | 0.0018             |           | ND         | 3       |                |   |
| 590          | Co      | 59 [115]    | ND         | 0.00005            |           | ND         | 0.09    |                |   |
| 630          | Cu      | 63 [115]    | ND         | 0.0001             |           | ND         | 0.2     |                |   |
| 650          | Cu      | 65 [115]    | ND         | 0.00011            |           | ND         | 0.2     |                |   |
| 1970         | Au      | 197 [159]   | ND         | 0.00005            |           | ND         | 0.09    |                |   |
| 540          | Fe+Cr   | 54 [115]    | ND         | 0.003              |           | ND         | 5       |                |   |
| 560          | Fe      | 56 [115]    | ND         | 0.0026             |           | ND         | 4       |                |   |
| 570          | Fe      | 57 [115]    | ND         | 0.0029             |           | ND         | 5       |                |   |
| 2040         | Pb      | 204 [159]   | ND         | 1.1                |           | ND         | 2000    |                |   |
| 2081         | Pb      | 206-8 [159] | ND         | 0.00008333         |           | ND         | 0.1     |                |   |
| 70           | Li      | 7 [115]     | ND         | 0.0007             |           | ND         | 1       |                |   |
| 240          | Mg      | 24 [115]    | ND         | 0.0019             |           | ND         | 3       |                |   |
| 261          | Mg      | 25-6 [115]  | ND         | 0.0021             |           | ND         | 4       |                |   |
| 550          | Mn      | 55 [115]    | ND         | 0.00007            |           | ND         | 0.1     |                |   |
| 2000         | Hg      | 200 [159]   | 0.00004858 | 0.000023           |           | 0.08       | 0.04    |                |   |
| 2010         | Hg      | 201 [159]   | 0.00003551 | 0.000022           |           | 0.06       | 0.04    |                |   |
| 2020         | Hg      | 202 [159]   | ND         | 0.000031           |           | ND         | 0.05    |                |   |
| 950          | Mo      | 95 [115]    | ND         | 0.00004            |           | ND         | 0.07    |                |   |
| 970          | Mo      | 97 [115]    | ND         | 0.000031           |           | ND         | 0.05    |                |   |
| 580          | Ni      | 58 [115]    | ND         | 0.00004            |           | ND         | 0.07    |                |   |
| 600          | Ni      | 60 [115]    | ND         | 0.00006            |           | ND         | 0.1     |                |   |
| 770          | Se      | 77 [115]    | ND         | 0.0025             |           | ND         | 4       |                |   |
| 620          | Ni      | 62 [115]    | ND         | 0.00008            |           | ND         | 0.1     |                |   |
| 310          | P       | 31 [115]    | ND         | 0.005              |           | ND         | 9       |                |   |
| 1950         | Pt      | 195 [159]   | ND         | 0.00001            |           | ND         | 0.02    |                |   |
| 1960         | Pt      | 196 [159]   | ND         | 0.000013           |           | ND         | 0.02    |                |   |
| 390          | K       | 39 [115]    | ND         | 0.031              |           | ND         | 50      |                |   |
| 780          | Se      | 78 [115]    | ND         | 0.0015             |           | ND         | 3       |                |   |
| 820          | Se      | 82 [115]    | ND         | 0.0006             |           | ND         | 1       |                |   |
| 280          | Si      | 28 [115]    | ND         | 0.029              |           | ND         | 50      |                |   |
| 1070         | Ag      | 107 [115]   | ND         | 0.00001            |           | ND         | 0.02    |                |   |
| 1090         | Ag      | 109 [115]   | ND         | 0.00001            |           | ND         | 0.02    |                |   |
| 230          | Na      | 23 [115]    | ND         | 0.006              |           | ND         | 10      |                |   |
| 880          | Sr      | 88 [115]    | ND         | 0.00005            |           | ND         | 0.09    |                |   |
| 2030         | Tl      | 203 [159]   | ND         | 0.0001             |           | ND         | 0.2     |                |   |
| 2050         | Tl      | 205 [159]   | ND         | 0.00009            |           | ND         | 0.2     |                |   |
| 1170         | Sn      | 117 [115]   | ND         | 0.00009            |           | ND         | 0.2     |                |   |
| 1180         | Sn      | 118 [115]   | ND         | 0.00006            |           | ND         | 0.1     |                |   |



|      |        |           |            |         |  |      |      |  |  |
|------|--------|-----------|------------|---------|--|------|------|--|--|
| 470  | Ti     | 47 [115]  | 0.00006813 | 0.00001 |  | 0.12 | 0.02 |  |  |
| 490  | Ti     | 49 [115]  | ND         | 0.00016 |  | ND   | 0.3  |  |  |
| 1820 | W      | 182 [159] | ND         | 0.00004 |  | ND   | 0.07 |  |  |
| 1830 | W      | 183 [159] | ND         | 0.00004 |  | ND   | 0.07 |  |  |
| 2350 | U      | 235 [159] |            |         |  |      |      |  |  |
| 2380 | U      | 238 [159] | ND         | 0.00001 |  | ND   | 0.02 |  |  |
| 510  | V      | 51 [115]  | ND         | 0.0007  |  | ND   | 1    |  |  |
| 511  | V corr | 51 [115]  | ND         | 0.0007  |  | ND   | 1    |  |  |
| 640  | Zn     | 64 [115]  | 0.0009345  | 0.00027 |  | 1.61 | 0.5  |  |  |
| 660  | Zn     | 66 [115]  | 0.001143   | 0.00022 |  | 1.97 | 0.4  |  |  |
| 680  | Zn     | 68 [115]  | 0.0008024  | 0.0003  |  | 1.38 | 0.5  |  |  |

*J*